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VICTORIA

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STATE RIVERS AND WATER SUPPLY COMMISSION

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FIFTY-EIGHTH  
ANNUAL REPORT  
1962-63

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

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## STATE RIVERS AND WATER SUPPLY COMMISSION

90 Orrong-road,  
Armadales, S.E.3.

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ANNUAL REPORT, 1962-63

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In compliance with the provisions of the Water Acts, the State Rivers and Water Supply Commission has the honour to present to Parliament the following Report and Statement for the Financial Year 1962-63, and Estimates for the ensuing year.

L. R. EAST, C.B.E., Chairman,  
M.C.E., M.I.C.E., F.ASCE., M.I.E. Aust.

A. L. TISDALL, Deputy Chairman,  
M.Agr.Sc., F.A.I.A.S.

R. A. HORSFALL, M.B.E., Commissioner,  
M.C.E., B.Mech.E., M.I.E. Aust.

A. H. RIGG, J.P., Secretary.

## CHANGES IN COMMISSION

On the 31st January, 1963, Mr. H. W. McCay, B.C.E., M.I.E. Aust., retired from the position of Deputy Chairman of the Commission which he had occupied for nineteen years.

Mr. McCay joined the Commission in 1922 and in 1937 was appointed Divisional Engineer supervising the operations of waterworks trusts and sewerage authorities throughout Victoria. He was appointed Commissioner and Deputy Chairman of the Commission in 1943. At various times since then, during absences of the Chairman from Victoria, Mr. McCay was Acting Chairman of the Commission and represented Victoria on the River Murray Commission and the Snowy Mountains Council. In 1944, Mr. McCay was Chairman of the Town Water Supplies Committee which recommended the present basis for financial assistance to enable Victorian country towns to develop and improve their water supplies. Mr. McCay was a Member of the Central Planning Authority for sixteen years until his retirement.

The position of Deputy Chairman has now been filled by Mr. A. L. Tisdall, M.Agr.Sc., F.A.I.A.S., formerly Commissioner. The position of Commissioner is now held by Mr. R. A. Horsfall, M.B.E., M.C.E., B.Mech.E., M.I.E. Aust., formerly Chief Designing Engineer of the Commission.



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## MAP

WATER CONSERVATION WORKS AND DISTRIBUTARY SYSTEMS FOR DOMESTIC, STOCK AND IRRIGATION PURPOSES At back  
of Report.

## SUMMARY OF MAIN DETAILS OF REPORT

### STORAGES

**D**URING the year 250,000 acre feet was added to the capacity available for water conservation in Victoria as a result of the completion of the Eppalock storage. Progress was made on the construction of Devilbend Reservoir in the Mornington Peninsula and a start was made in May, 1963, on a new storage in the Grampians to be known as Lake Bellfield where 60,000 acre feet will be stored for use in the Wimmera-Mallee System. Good progress was made with excavation and other work preliminary to the construction of the dam.

The capacity of water storages controlled by the Commission at 30th June, 1963, was 4,516,478 acre feet. In addition, River Murray storages with a combined capacity of 2,722,840 acre feet are shared equally by New South Wales and Victoria under the River Murray Water Agreement, subject to certain obligations to South Australia. The total storage capacity available to Victoria is thus 5,877,898 acre feet, an increase of 3,504,218 acre feet in the ten years since 30th June, 1953.

### IRRIGATION DEVELOPMENT AND WORKS

**T**HE area irrigated in 1962-63 was 1,151,555 acres, being 33,655 acres above the previous record in 1961-62, but water deliveries for irrigation totalled 1,539,890 acre feet which was less than the record volume of 1,744,473 acre feet delivered in 1961-62, because of seasonal conditions.

In the Goulburn Irrigation System, progress was made on channel enlargement to distribute additional water from Eildon and other reservoirs. Work was concentrated in the Rodney, North Shepparton, South Shepparton and Tongala-Stanhope Irrigation Areas, where many channels were completed. Considerable progress was made on drainage works, particularly on the construction of the new Mosquito Depression Drain.

In the Murray Valley Irrigation Area 186 miles of drains was excavated leaving some 39 miles to complete the drainage of the Soldier Settlement Area. Work was well advanced on channels and structures in the Dunbulbalane Soldier Settlement Area, where 120 of the 186 blocks have been supplied with water.

### IRRIGATION DISTRICTS AND PRODUCTION

**I**N the Goulburn Division districts a near-record of 543,248 acre feet of water was delivered; while in the Loddon districts there were continued improvements in channel systems and water distribution.

The value of production in 1961-62 from all irrigated lands including those watered by private diverters, was a further record of £61,355,000, an increase of £230,000 over the previous record in 1960-61.

### TOWN AND INDUSTRIAL WATER SUPPLY AND SEWERAGE

**O**N 30th June, 1963, the number of country towns provided with reticulated water supplies by the Commission or by Local Trusts and Authorities was 338 and these served 745,670 persons. Six new town supplies were brought into operation at Goornong, Lakes Entrance, Moyhu, Paynesville, Plenty and Yarrambat by newly constituted Waterworks Trusts and ten new Trusts were constituted to supply another fourteen towns. The Commission extended supplies to serve Baxter and Pearcedale on the Mornington Peninsula.

Expenditure by local Water Supply Trusts and Authorities on loan works to supply country towns was £3,739,293, of which £2,506,518 was provided from Government loan funds.

In Victoria, 75 Sewerage Authorities have been constituted under the Sewerage Districts Act to serve country towns. Fifty-four have works in operation serving 512,000 persons. Nine new systems were brought into operation at Camperdown, Casterton, Euroa, Korumburra, Lorne, Terang, Werribee, Wodonga and Yarram. Good progress was made with three other new systems.

Capital expenditure on sewerage works was £3,469,864 which was the highest total on record. Of this amount £409,864 came from Government Loans.

### RIVER IMPROVEMENT, FLOOD PROTECTION AND DRAINAGE

**E**IGHTEEN River Improvement Trusts and four Drainage Trusts were in operation at 30th June, 1963. Expenditure under the River Improvement Act was £233,015, the highest yet recorded.

The waters of Lake Corangamite continued to recede as a result of diversion of inflow and evaporation, and on 30th June, 1963, were 4 ft. 2 in. below the record high flood level of October, 1960. Diversions of water from the Woody Yaloak River to the Barwon River, totalling 102,000 acre feet, account for one-third of this reduction, the balance being due to evaporation from the lake surface. Some 6,500 acre feet of saline water was pumped from the Cundare Pool into the main lake, taking with it more than half the total salt. Future flood inflows will now dilute the Pool to such extent that the impounded floodwaters can be safely released to the Barwon River via the diversion channel.

## FINANCE

**T**HE total receipts for water rates and charges for the financial year 1962-63 amounted to £3,401,935 as compared with £3,247,520 in 1961-62.

The number of rating assessments in the districts supplied with water by the Commission was 109,365 and the total number of assessments in drainage, flood protection and sewerage districts was 10,130.

The unimproved capital valuation of properties rated on this basis within irrigation districts, waterworks districts, and the Carrum Drainage District amounted to £61,357,579.

The net annual valuation of properties rated on that basis, within one waterworks district, two flood protection districts, urban districts including the Coliban System, and the Eildon Sewerage District, amounted to £8,184,300.

The net liability of the State for works of water supply and drainage at 30th June, 1963, was £137,434,842. Of the net liability at 30th June, 1963, £11,867,362 is charged to waterworks trusts and other local governing bodies ; £8,374,529 is debited to districts directly controlled by the Commission and to Plant Workshops ; £1,553,142 is debited to Plant and Machinery Account ; £267,543 to river improvement trusts ; £5,095,646 to the Latrobe Valley Water and Sewerage Board ; and the balance £110,276,620, being largely expenditure on irrigation and rural water supply works, flood protection and drainage works, is borne by the State in accordance with government policy.

The total interest, exchange and loan conversion expenses for 1962-63 amounted to £6,166,764. Waterworks trusts and local governing bodies paid to the Treasury the sum of £426,523 as interest on loans. In addition, interest amounting to £230,543 was met by the Commission in respect of districts under its control.

In districts which were required to meet all annual operating costs, the operations for the year resulted in a net cash gain of £332,740. A deficiency of £197,421 was incurred in operating districts to which the supply was continued by direction of the Governor in Council. This amount was debited to the "Revenue Expenditure Chargeable to the State Account".

The net cost to the State for interest, exchange and loan conversion expenses, loss on district operations, for services not directly chargeable to waters users, together with the cost of National Debt Sinking Fund operations was £5,784,957 of which £5,364,293 was for interest, exchange and loan conversion expenses.

The value of stores and equipment held in the Stores Suspense Account as at 30th June, 1963, was £811,737 and the value of moveable plant and machinery held in the Plant and Machinery Account as at that date was £1,553,142.

A sum of £180,335 was paid into Consolidated Revenue in respect of depreciation payments by Commission's districts for the year 1962-63 bringing the balance in the Water Supply Works Depreciation Account to £1,140,365. However, nothing has been paid into the Depreciation Fund for some years and the actual amount in the Fund available for replacement of depreciated assets is only £10,356.

The amount at credit of Water Supply Plant and Machinery Depreciation Fund as at 30th June, 1963, was £1,237,310.

The arrears of water rates and charges outstanding at 30th June, 1963, amounted to £538,398 of which £279,812 represents outstanding accounts for sales of water on which interest does not become payable until December, 1963.

The amount included in the Budget Estimate for 1963-64 for Vote Expenditure on works and services under the control of the Commission is £4,680,650. This amount is £454,000 less than the Commission's estimated requirements.

\* \* \* \*



## STATE RIVERS AND WATER SUPPLY COMMISSION

# ANNUAL REPORT, 1962-63

A far-reaching decision on water conservation affecting the three States of South-Eastern Australia was made during the year, when agreement was reached between the Commonwealth Government and the Governments of Victoria, New South Wales and South Australia for the River Murray Commission to provide a very large storage of about 4,800,000 acre feet on the Lower Murray River at Chowilla, to be used for the benefit of the three States.

This storage will conserve flood waters in wet years to meet South Australia's entitlement in times of low river flow. In such years upstream resources will be available to Victoria and New South Wales, without requiring water to be released from Hume Reservoir to satisfy the needs of South Australia.

Agreement was also reached for the use, by the River Murray Commission, of the Menindee Storages on and adjacent to the Darling River in New South Wales for seven years until Chowilla is built, subject to certain reservations to safeguard the needs of New South Wales.

As the first stage of diversion of water to the Murray System by the Snowy Mountains Hydro-electric Authority is expected in 1966, a useful increase in supply of water in normal years to the Victorian irrigation areas dependent on the River Murray is now in sight, and in addition there will be assurance of increased supplies in times of drought.

Another important factor in increasing water availability has been the Commission's campaign for better and more effective use of irrigation water. This has been vigorously developed in recent years, and is now showing results.

There has been a marked spread of the known improvements in irrigation practices; more and more of the land used for irrigation is now properly prepared and laid out, and modern irrigation practices are being increasingly applied.

The liaison between Commission officers and the irrigators continues to improve at all levels, especially in this field of raising irrigation efficiency within farm boundaries. Increasing use is being made of press, radio and television, and in addition the Commission has instituted, under the name of "Water Talk", a series of small bulletins for specific districts or regions. Each issue deals with a separate subject, ranging from irrigation practices to groundwater pumping for reclamation of salt-affected lands which has been so successfully developed in the Macalister Irrigation District in Gippsland.

There is an increasing awareness by irrigators that the only sure way of safeguarding their level of production is to carry forward sufficient water in storages to ensure supplies for subsequent years.

The impact of science and technology has also been noticeable in the field of water distribution. Improved channel outlet structures have been designed, incorporating neoprene sealing strips to prevent leakage, new techniques of mechanical cleaning of channels have been developed, while the use of chemicals to control aquatic weeds in channels, despite some set-backs, continues to increase.

Distribution efficiency in the irrigation supply systems has been rising steadily over the last decade, and investigations leading to further improvements are being stepped up year by year. There is little doubt that distribution efficiency will continue to rise, making more water available for distribution to the districts concerned.

## DETAILS OF COMMISSION OPERATIONS

### LEGISLATION

Legislation passed during the year was of a relatively minor nature, and in each case was aimed at improving administration in various Local Authorities. The three Acts are briefly described below.

#### **Geelong Waterworks and Sewerage (Amendment) Act 1962—No. 6938.**

This Act increases the borrowing powers of the Geelong Waterworks and Sewerage Trust. It provides that loans raised by the Trust shall be subject to guarantee by the Government and provides that regulations and by-laws may be published in an abridged form.

#### **Mildura Irrigation and Water Trusts (Amendment) Act 1962—No. 6972.**

This Act assists the First Mildura Irrigation Trust in its irrigation and drainage operations. Besides improving administrative procedures, the amendments provide the Trust with additional powers, similar to those already vested in the Commission in respect to the irrigation areas under its control.

#### **Sewerage Districts (Polls) Act 1962—No. 6974.**

This Act amends legislation relating to polls in connection with sewerage undertakings in country towns. It provides for voting by post, at polls held under the Sewerage Districts Acts and enables regulations to be made for the proper conduct of such polls. It also facilitates the procedure to be followed by a sewerage authority in making by-laws.

\* \* \* \*

### PARLIAMENTARY PUBLIC WORKS COMMITTEE

#### **WIMMERA RIVER**

The Governor in Council on 15th September, 1959, referred to the Committee for inquiry and report :

- (i) The desirability and practicability of providing for the increased storage of water on the Wimmera River and its tributaries.
- (ii) Any other matters which appear to the Committee to be relevant to the inquiry.

An interim report was issued on 13th April, 1961 (recommending the construction of the Lake Bellfield Dam, &c.,) and a second progress report was issued on 22nd March, 1962 (recommending the necessary works to provide irrigation along the Toolondo Channel, Darragon Creek and Wimmera River).

The inquiry is proceeding.

#### **WATER RESOURCES**

The Governor in Council, on 15th November, 1960, referred to the Committee for inquiry and report :

1. (a) Whether there is sufficient flow in the King, Ovens, Mitta Mitta, Broken, Goulburn, Campaspe, Loddon, Avoca and other Victorian rivers to warrant the building of reservoirs or further reservoirs, so as to conserve more water for irrigation and other purposes in any or all of these rivers ?
- (b) If so, whether there are suitable sites in these rivers for such reservoirs ?
- (c) What is the estimated amount of water that could be conserved for use ?
- (d) If it is practicable to conserve water in such rivers, then what should be the order of priority ?
2. (a) Whether there are large underground water resources suitable for irrigation purposes that could be economically pumped in the areas bounded by the Mitta Mitta River on the east, the Avoca River on the west, and between the Great Dividing Range and the River Murray ?
- (b) What would be the approximate number of bores required to establish such resources of water ?
- (c) The appropriate depth such bores would have to be driven under the surface of the ground to ascertain this information ?
- (d) The approximate cost to arrive at this information ?
3. What practical methods could be undertaken to overcome the large loss of irrigation water between the headworks and delivery to the land in the irrigation districts of Victoria ?

4. Whether it is desirable that the present system of using lakes, rivers and streams as carriers for irrigation should be abandoned; if so then what work would be required to carry water to the various irrigation districts in the same or greater volume?
5. Any other matters which appear to the Committee to be relevant to the inquiry.

In Progress Report No. 1, dated 21st November, 1962, the subject being the *Ovens River Basin*, the Committee recommended:

1. That a storage reservoir be provided at the Yarrarabula site on the Buffalo River to impound not less than 800,000 acre feet of water and yield annually approximately 300,000 to 400,000 acre feet at a provisionally estimated cost of £21,000,000, the cost estimate being subject to further detailed investigation.
2. That the construction programme be arranged so that the dam would be completed within ten years of commencement.
3. That the reservoir be used to serve local requirements in the Buffalo and Ovens Valleys and as a reserve storage for use as required to augment the supply to irrigation areas in Victoria dependent on the River Murray.
4. That all the necessary works be constructed to prevent adverse effects on tobacco crops on land adjacent to the river below the dam that may be caused by sustained high flow during the growing season. Where this problem can not be overcome suitable financial adjustment should be made by way of compensation for the resultant loss in the productive value of the land affected.
5. That the State Rivers and Water Supply Commission and the State Electricity Commission study the possibility of using the dam for hydro-electric power generation and the question of whether additional capacity should be provided for this purpose.
6. That immediately after a decision is made by the Government to proceed with the proposal and from time to time thereafter action be taken to acquire any of the land affected which is available for sale, the balance to be resumed as required by the progress of the work.
7. That this storage proposal be classified as of high priority.

In Progress Report No. 2, dated 8th May, 1963, the subject being *The Use of Natural Streams and Lakes as Irrigation Carriers with particular reference to The Lower Sector of the Torrumbarry Water Distribution System*, the Committee recommended:

1. That a low level fixed weir with control gates designed for raising above flood level be constructed at the Fish Point site on the Little Murray River for the purpose of excluding the Lower Loddon waters from the Little Murray Pool during periods of low flow, the estimated cost being £55,000.
2. That a pumping plant with an ultimate capacity of 250 cusecs be installed at the Swan Hill township site for the purpose of supplying the Swan Hill and Woorinen irrigation areas when requirements can not be met from the Little Murray Pool, the estimated cost being £75,000.
3. That the Commission continues to supply the Swan Hill South and Pental Island Irrigation Areas from the Little Murray Pool.
4. That a pump be sited on the River Murray and the necessary aqueduct be provided to divert River Murray water across Pental Island to augment supplies to the Little Murray Pool, the estimated cost being not in excess of £20,000.
5. That with due regard to the needs of all the District the Commission give consideration to a carefully planned expansion of water rights in the Lower Sector of the Torrumbarry System.

In Progress Report No. 3, dated 26th June, 1963, the subject being *The Broken River Basin*, the Committee recommended:

1. That a storage reservoir be provided at the Nillahcootie B site on the Broken River to impound approximately 35,000 acre feet of water at a provisionally estimated cost of £1,250,000 the cost estimate being subject to further detailed investigation.
2. That Winton Swamp be developed as a storage of approximately 300,000 acre feet capacity to be supplied by diversion of the flow of the Broken River at Yin Barun the diversion channel picking up the flow of Hollands Creek en route the provisionally estimated cost of the works being £2,800,000 the cost estimate also being subject to further detailed investigation.

3. The prime function of the Winton Swamp storage be its operation in conjunction with Eildon Reservoir with due consideration to provision of a measure of local benefit.
4. That the prime function of the Nillahcootie storage should be the regulation of the flow of the Broken River to meet stock, domestic and town requirements throughout the Broken Valley. Having established these requirements any surplus should be made available for additional irrigation within the Broken Valley.
5. That the first stage of the works be the construction of the Nillahcootie Dam and this aspect is considered by the Committee as of high priority.
6. That the Government makes an early decision on these matters and allots to the State Rivers and Water Supply Commission the necessary funds to acquire any or all of the alienated lands involved.

The inquiry is proceeding.

#### GOULBURN-MURRAY IRRIGATION DISTRICT DRAINAGE

The Governor in Council, on 15th November, 1960, referred to the Committee for inquiry and report :

- (i) What methods would be necessary to overcome the serious damage to productive land by a high water table and salting of the land in the Goulburn-Murray Irrigation District, particularly in the Kerang District ?
- (ii) Any other matters which appear to the Committee to be relevant to the inquiry.

The inquiry is proceeding.

#### LAKE CORANGAMITE

The Governor in Council, on 28th March, 1961, referred to the Committee for inquiry and report :

- (i) The effect of the works which have been carried out by the State Rivers and Water Supply Commission in mitigating flooding of alienated lands around Lakes Corangamite, Gnarpurt and Murdeduke.
- (ii) The practicability and cost of diverting or removing water from the Lakes more rapidly in order to accelerate the reclamation of alienated lands now submerged—including increased use of the Barwon River for a limited period of years having regard to the needs of landholders now dependent upon the Barwon River for domestic, stock or irrigation water supplies.
- (iii) Whether diversion works constructed for reclamation of submerged lands could later be used to enable any waters from the Woody Yaloak River or any other streams now entering these lakes to be stored and used for irrigation or other water supply purposes along the Barwon River or elsewhere.
- (iv) Whether any of the alienated lands which have been or are now flooded around these lakes should be resumed by the Crown and if so the basis upon which such resumption should be made.
- (v) Any other matters which appear to the Committee to be relevant to the inquiry.

In Progress Report No. 1, dated 13th December, 1962, the Committee recommended :

That the necessary arrangements be made immediately for pumping the residual contents of the Cundare Pool into Lake Corangamite towards the end of Autumn, 1963, and draining the original closed depressions in the Cundare Pool area, the estimated cost being £30,000.

The inquiry is proceeding.

#### MELBOURNE WATER SUPPLY

The Governor in Council, in November, 1962, referred to the Committee for inquiry and report :

The Report dated July, 1962 of the Melbourne and Metropolitan Board of Works on the Future Water Supply of the Melbourne Metropolitan Area for inquiry and report on the Board's recommendations and any other matters which the Committee considers relevant.

The Commission gave evidence to the Committee as regards the use of Goulburn River and other waters normally being used for irrigation in northern Victoria and Gippsland, and regarding alternative sources of supply available to the Board.

The inquiry is proceeding.

## STATE DEVELOPMENT COMMITTEE

In 1961, the Premier requested the State Development Committee to undertake an inquiry into the Underground Water Resources of Victoria.

The Terms of Reference were :

1. What action is considered necessary or desirable—
  - (a) to control the development and use of underground waters for the purpose of safeguarding such waters against pollution or excessive depletion ;
  - (b) to ascertain the extent and nature of the underground water resources of the State ;
  - (c) to make such information available to the public ;
  - (d) to provide for advice to be available to the public in regard to the development and use of underground waters.
2. What Departments and/or Authorities should take action in regard to these matters.
3. What legislation is considered necessary or desirable.
4. Any other matters which appear to the Committee to be relevant to the inquiry.

The Report of the Committee was published in November, 1962, and contained recommendations including provisions for the survey and safeguard of underground water resources. It recommended that progress reports on the survey be submitted to Parliament and that full information about the location, nature and extent of underground water be made available to interested sections of the public.

A detailed survey of the recommendations in the Committee's Report is being made by the Commission.

\* \* \* \*

## WATER DELIVERIES

The dry conditions experienced during 1961-62 continued throughout the winter months, but as a result of the reserves of water carried forward in the major storages, from the previous season, the Commission was able to announce, at the commencement of the 1962-63 season, that deliveries would be available to individual irrigators in the Goulburn-Murray Irrigation District to the extent of 130 per cent. of "1960 Formula" water rights.

Moderate rains fell on the catchments of the major storages and in northern Victoria during the spring. In consequence, the spring demand for water for irrigation was relatively light. The total volume delivered on the land in all districts to the end of October was only 191,000 acre feet, as compared to approximately 310,000 acre feet at the same stage of the 1961-62 season.

As a result of the improvement in the supply position resulting from the spring rains and further rains in the irrigation areas during the summer months, the Commission after consultation with the Advisory Boards was able progressively to increase the volume available to individual irrigators to the same percentage of water rights as was available in 1961-62, i.e., 165 per cent. of "1960 Formula" water rights.

Following rains in late April, supplies were made available to irrigators in the Murray Valley Irrigation Area and the Torrumbarry System for the last two weeks of the irrigation season without regard to seasonal allocations.

The total volume of almost 1,540,000 acre feet delivered on the land during 1962-63 was substantially less than the record volume of 1,744,473 acre feet delivered in 1961-62, chiefly because of the low demand during the Spring. The total volume was greater than that delivered in any other season except 1957-58.

The effect of the channel remodelling works carried out in recent years was illustrated in March, 1963, when a record volume of over 62,000 acre feet was delivered on the land in the Goulburn-Murray Irrigation District during the week ending 23rd March, as compared to the maximum weekly delivery in any previous season of nearly 57,000 acre feet during the week ending 16th March, 1962.

In the Macalister Irrigation District, water deliveries were only 2,100 acre feet less than the record delivery of 89,642 acre feet in 1961-62, but as a result of good spring and autumn rains, Glenmaggie Reservoir filled shortly after the end of the season.

The position in the Bacchus Marsh and Werribee Irrigation Districts, which appeared critical during the early spring, improved substantially as a result of good rains on the catchments of Melton and Pykes Creek Reservoirs in late October and November. All requirements were met and Melton Reservoir overflowed as a result of heavy rain in May, 1963.

The total volume of 4,153,170 acre feet impounded in all storages at the close of June, 1963, was over 800,000 acre feet more than the volume impounded at the commencement of the 1962-63 financial year.

## PRIVATE DIVERSIONS (SEE APPENDIX G (ii))

The use of water for irrigation by private persons who divert water from surface sources, now stands at 134,662 acres on which 327,095 acre feet of water are authorized to be used each year. In 1942-43 the relative figures were 19,258 acres and 23,462 acre feet.

The present acreage so watered is 13·2 per cent. of all irrigation ; in 1942-43 it was 3·3 per cent.

\* \* \* \*

## WATER ENTITLEMENT CERTIFICATES

It is of the greatest importance to irrigators that they should have no doubts as to the quantities of water they can expect from year to year for the irrigation of their lands. Although much publicity has been given of recent years, many irrigators have been in doubt as to the actual allocations available for the irrigation of their lands.

So that the amounts of water available to irrigators will be known by all of them, the Commission is issuing to each landholder a "Water Entitlement Certificate" which will give him essential information in regard to his entitlement, and will also indicate the basis of any Extra Water Rights.

At the present time these certificates have been issued only to irrigators in the Goulburn-Murray Irrigation District.

The Certificates show the water allocations as recorded in the present Register of Lands, together with the additional amount of water which will be available as sales quota in normal years.

The Commission desires to stress that, as the Goulburn-Murray District is developed, water sales in excess of the foregoing quantities will not be available except on infrequent occasions. There will be some years when water rights and only a proportion of the sales quotas can be delivered. In years of extreme drought conditions, there will be no sales and full water rights may not be available.

In the interests of landholders themselves, there must be a limit to total irrigation supplies to individuals in good years if over-development of their properties is to be avoided. Otherwise, not only will these individuals suffer serious losses when only water rights are available, but also there would be an increase in the frequency and severity of restrictions to all irrigators in years of drought.

When the Goulburn-Murray District is fully developed, water in excess of the quantities of water rights and sales quotas shown on the Certificate will not be available except on infrequent occasions.

\* \* \* \*

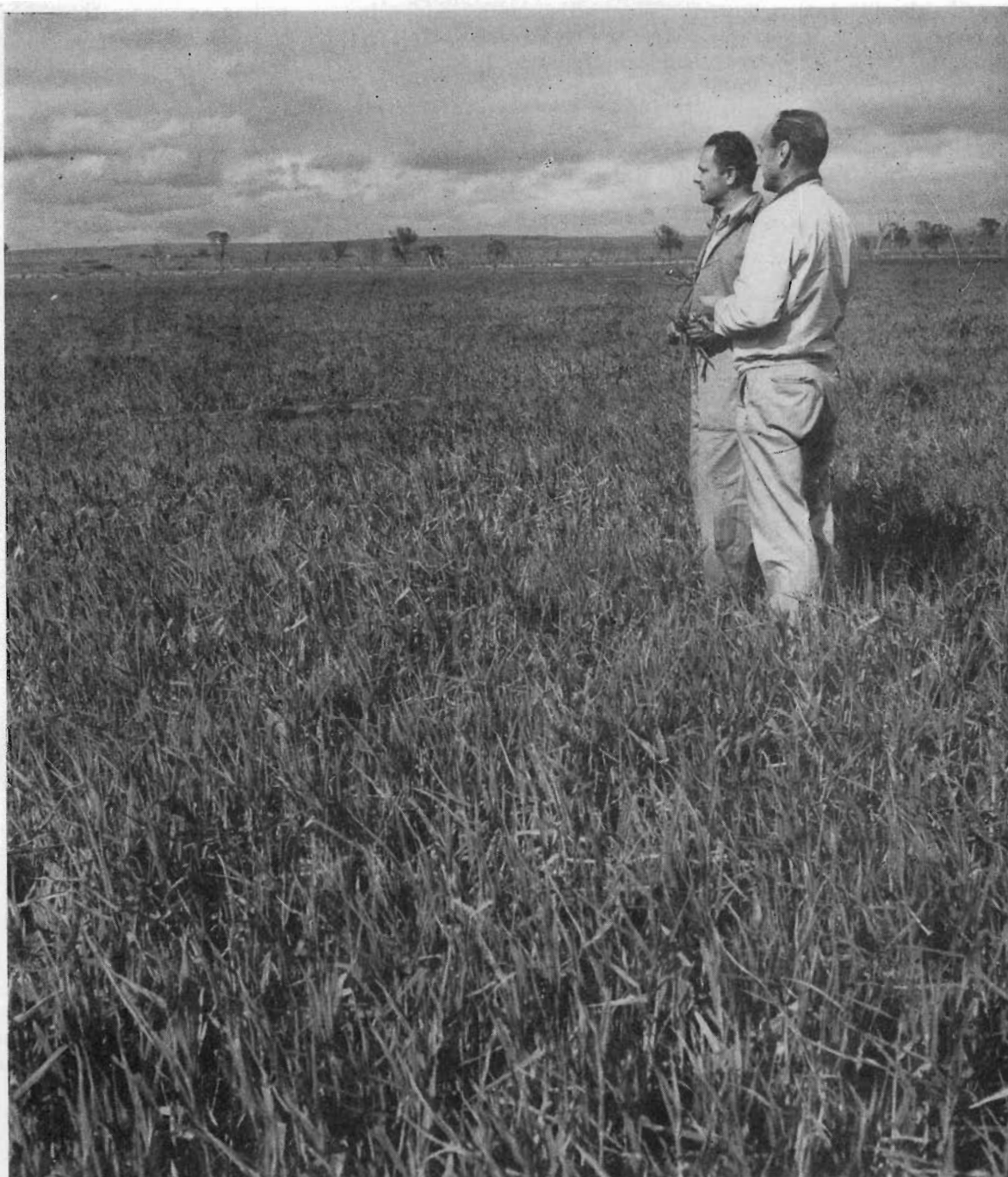
## IRRIGATION PRODUCTION 1961-62

(Production figures are not yet available for 1962-63.)

In 1961-62 the value of production from Victorian irrigation districts, including private diverters, amounted to £61,355,000. This was an increase of £230,000 on the former highest production figure of £61,125,000 recorded in 1960-61. Details under the various headings of primary industry are :

<i>Irrigation Districts—</i>					£	£
Milk and Milk Products	..	..	..	..	15,560,000	
Beef and Veal Meats	..	..	..	..	2,598,000	
Wool, Lamb and Mutton	..	..	..	..	6,256,000	
Pigmeats	..	..	..	..	2,785,000	
Poultry and Eggs	..	..	..	..	1,540,000	
All Livestock	..	..	..	..	..	28,739,000
Dried Vine Fruits	..	..	..	..	6,705,000	
Table and Wine Grapes	..	..	..	..	936,000	
Canning Fruits	..	..	..	..	4,434,000	
Fresh and Jam Fruits (Deciduous)	..	..	..	..	2,265,000	
Citrus Fruits	..	..	..	..	832,000	
All Horticulture	..	..	..	..	..	15,172,000
Vegetables	..	..	..	..	..	2,903,000
Other Primary Products	..	..	..	..	..	2,689,000
Total District Production	..	..	..	..	..	49,503,000
Private Diverters	..	..	..	..	..	11,852,000
Grand Total	..	..	..	..	..	61,355,000





Formerly water logged and salt-affected land which has been reclaimed on a large scale by employing good irrigation methods and providing adequate drainage.

Although there was little change overall in the value of production as compared with the previous year, there were significant changes in certain individual items. The most noticeable variations were found in the horticultural sector where all items showed an increase in value over the previous year's production. Dried vine fruits was the largest single item in this group, and the gross value of production, estimated at £6,705,000, was 40 per cent. higher than in 1960-61. This was almost entirely due to increased volume of production, especially of sultanas. Prices for currants and raisins were a little higher, and for sultanas slightly lower, on the average, than in the former year.

Canning fruit, with a total value of £4,434,000 was the next most valuable item in the horticulture group, and represented an increase of 31 per cent. upon the value in 1960-61. Once again this was mainly due to increased production, particularly of apricots and peaches. The average price paid for apricots was higher this season than last, but other canning fruit prices were down, though still maintaining a higher level than in any year since 1957-58.

Vegetable production recorded a drop in value of 18 per cent. as compared with 1960-61. This was due to lower prices coupled in some instances with a fall in production.

In the livestock sector, the increased quantity and value of production within the "Milk and Milk Products" item was counter-balanced by falls in the value of production of other items. Within this group the most significant fall was in the value of "Wool, Lamb and Mutton" brought about by considerably lower prices and a decreased production of lamb and mutton as compared with those obtained in 1960-61.

The total value of production from irrigated areas in 1961-62 represented 17 per cent. of the gross value of Victoria's Agricultural and Pastoral production.

\* \* \* \*

## IRRIGATION RESEARCH

### SOIL SURVEYS

Soil surveys were undertaken in the Rochester, Swan Hill, and Fish Point Irrigation Areas and Tresco Irrigation District in conjunction with the Department of Agriculture. A survey of the Ovens Valley tobacco growing areas was also commenced. Altogether 51,000 acres was surveyed in detail in these areas. Technical Bulletin No. 14 covering the Rodney, Tongala-Stanhope, North Shepparton, and South Shepparton Irrigation Areas was published by the Department of Agriculture in co-operation with the Commission. Copies have been sent to Commission offices at Tongala, Tatura and Shepparton for distribution to interested landholders.

### EFFICIENT WATER USE

Investigations aimed at ascertaining correct flow rates for efficient surface irrigation of pastures have continued on properties at Rochester and Swan Hill, and further work along these lines is now to be undertaken at Kyabram on the Irrigation Research Farm of the Department of Agriculture.

In the Central Gippsland Irrigation Area the use of large flows in watering pasture on very permeable soil has proved to be of considerable advantage, a substantial saving of water having been achieved on the properties of several irrigators who collaborated with the Commission in this project.

Investigations in collaboration with the C.S.I.R.O. into possible ways of effecting a reduction in water used in vineyard irrigation have provided a basis for two important recommendations: first, concerning a method of frost protection without wetting the soil, and second, in relation to watering methods which will minimize losses of water by way of the drainage trench.

### WATERTIGHT SEALS

The use of watertight seals by farmers for improving the standard of their farm channel concrete structures is being encouraged by the provision of steel formwork at various Commission centres. This specially designed formwork has been made available for use by irrigators on a hiring-out basis.

The design of the watertight seals has been registered and a scheme has been implemented to control the standard of the product. Some royalties are expected to be obtained as a result of this scheme and a trust fund has been established so that these royalties can be used to meet the cost of further research of direct benefit to Victorian irrigators.

### WATER MEASUREMENT

Further investigation of meter outlet operating conditions, including those prevailing in relatively new channel systems, has confirmed the initial finding that low rates of flow onto farms are a major cause of inaccuracy of measurement. A wide variation in meter operating conditions exists on farms and as a result measurement loss can vary considerably from farm to farm, which means inequitable distribution of irrigation supplies.

Graphs have been prepared to enable meter wheels to be checked to determine their accuracy under actual operating conditions. Faulty wheels will be replaced as part of the Commission's works programme.

### WEEDICIDES

The weedicide Aqualin was used successfully to control the growth of submersed weeds in approximately 700 miles of channels. A further six Aqualin operators were trained to assist with this work.

Weedazol TL was tested on a large scale and found to be effective for controlling water couch, the main weed in drains. As a result a plan was prepared for using Weedazol in drains during 1963-64 and a substantial improvement in drainage maintenance should result in irrigation areas where Weedazol TL can be safely used.



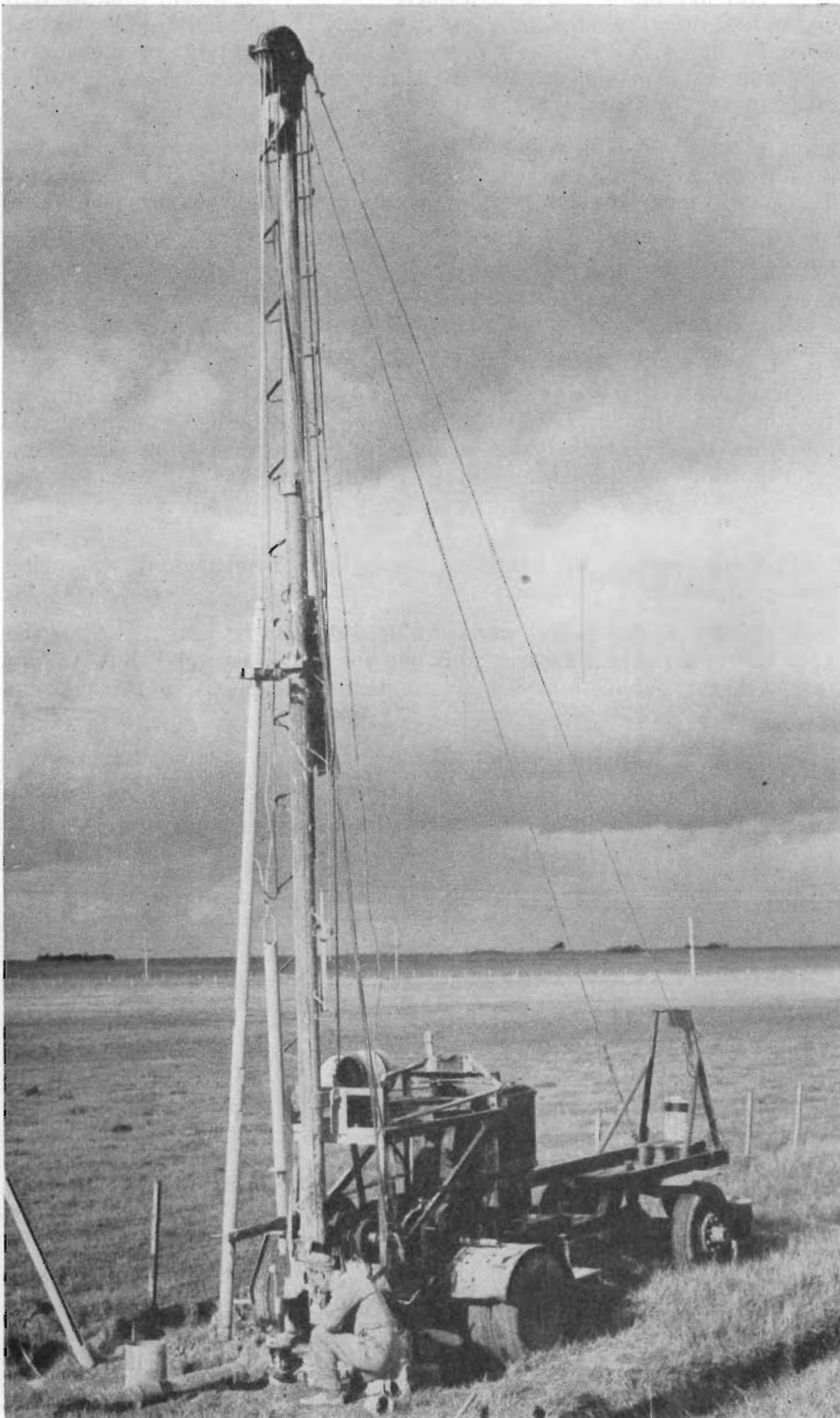
Pollution following the use of the soil sterilant Telvar was measured. Experiments were continued to determine the pollution levels with Telvar and other weedicides in water supplies which cause damage to irrigated crops.

The planned use of the new weedicides Diquat and Paraquat has been delayed while further information is obtained concerning the toxicity of these chemicals to stock.

#### UNDERGROUND WATER SUPPLY

A joint survey, with the Mines Department, of the ground water potential of the Ovens and King Valleys was completed. During this investigation, which was partly financed by the Tobacco Growers' Association, 29 bores were drilled for a total footage of 4,035 feet. From the available information it seems most unlikely that any widespread reserves of underground water, adequate for use as an irrigation supply, are located in these valleys.

Tests were begun on the effectiveness of large diameter (30 inch) bores in geologically favourable areas, as a means of supplementing the surface water supply in irrigation districts and possibly providing a useful method of underdrainage.



A drilling rig probes for water during underground drainage investigations in the Nambrok - Denison area of the Macalister Irrigation System.

## DRAINAGE INVESTIGATIONS

A soil salinity survey, carried out by the Department of Agriculture, on the Tyntynder Flats region in the Swan Hill Irrigation Area has indicated that 54 per cent. of the land was salt affected to some degree, while 14 per cent. of the land was highly saline, (with more than 0.30 per cent. sodium chloride). A network of piezometers and test wells was installed to check whether the surface drainage system, currently being constructed, will effect complete reclamation of the salt affected area.

In the Central Gippsland Area 80 acres of badly salt affected land were taken over for reclamation by applying techniques successfully evolved on two small-scale experimental plots. As a result a fair first crop of millet was obtained.

As a first step in selecting practical and economical methods of large-scale reclamation of saline land in the Kerang Irrigation Area, 31 exploratory bores were sunk between the Loddon River and Pyramid Creek, just south of Tragowel Swamp to find if there is any relation between the occurrence of salting and geological conditions. Aquifers were found at only two sites and further investigation is necessary to clarify the mechanism of salting over much of the area.

Restrictors installed on drainage outfalls in a 1,100 acre drainage catchment area at Red Cliffs failed to appreciably reduce the drainage overload problem. In collaboration with a growers' committee sponsored by the A.D.F.A., the Commission is investigating an alternative approach based on better soil and water management in the spring, and more judicious irrigation as means of reducing drainage flows from properties.

In the Woorinen region of the Swan Hill Irrigation Area, the earth-resistivity technique was used to measure changes in salt content during the year. The results on heavy soils are expected to show the importance of irrigation method and timing in maintaining a salt balance favourable to vine growth.

Hydraulic conductivity tests were made on several properties in the Tresco region of the Swan Hill Irrigation Area as a basis for recommending suitable tile drainage layouts. These tests were also carried out in the northern part of the Tragowel Plains Irrigation Area to select a suitable experimental site for testing the practicability of plastic pipes for underdrainage.

Routine recording of groundwater levels was continued in the Macalister Irrigation District, the Tongala-Stanhope Irrigation Area, the Shepparton Irrigation Area (including Dunbulbalane), the Murray Valley Irrigation Area, the Tragowel Plains, Calivil and Dingee Irrigation Areas, and the Woorinen and Tyntynder portions of the Swan Hill Irrigation Area.

## EXTENSION ACTIVITIES

Several pamphlets describing aspects of irrigation have been printed and are being distributed to irrigation farmers throughout Victoria.

Four issues of the publication "Water Talk" were produced during the year: two for the vine districts, one for the Macalister Irrigation District and one for the Tragowel Plains, Calivil and Dingee Irrigation Areas. These publications are distributed to irrigators in the relevant Irrigation Districts.

Displays describing some of the activities of the Commission were exhibited at several country agricultural shows.

A sound film has been produced describing the reclamation of saline land in the Central Gippsland Irrigation Area.

Several articles describing technical aspects of irrigation were released to the country press.

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## IRRIGATION DIVISIONS

### GOULBURN DIVISION

The Goulburn Division includes the areas administered from Cobram, Shepparton, Tatura and Tongala centres.

Although 23 inches of rain fell throughout the Division within the year, with more than half during the Irrigation season, a near record of 543,246 acre feet of water was delivered to landholders.

As normal maintenance operations, 165 miles of channels, 357 miles of drains, 970 meter outlets and 1,300 irrigation structures were remodelled or repaired.

New works included 100 meter outlets and 150 structures ranging up to a 30-ft. span concrete bridge and a six-6-ft. opening check. Substantial progress has been made in the enlargement of channels and extension of drainage systems.

### **Murray Valley Irrigation Area.**

The area was extended to include lands adjacent to the Torgannah Lagoon and Broken Creek. Extra water rights have been made available to these lands.

Broken Creek is being improved as a water carrier, one weir has been replaced and weed eradication is proceeding.

### **East Goulburn Irrigation Areas.**

The development of the Closer Settlement Area in Dunbulbalane, the allocation of water rights to lands adjacent to Nine Mile and Broken Creeks and the increased allocations of water to existing irrigated holdings resulted in a considerable advance in irrigation culture in the area north of Shepparton.

Good progress was made with the programme of meter wheel rehabilitation.

### **Rodney Area.**

The replacement of old timber checks and bridges has continued. Access to outlets and regulating structures was improved. Land subdivisions within the area totalled 120.

### **Tongala, Stanhope and Deakin Areas.**

Drainage maintenance and the reduction of leakage through meter outlet doors received particular attention.

## **LODDON DIVISION**

The year showed continued improvements in both distributory systems and water distribution efficiency.

Many old channel structures were replaced with new standardized concrete works. Over 500 meter outlets were fitted with leak-proof doors to eliminate wastage of water, and more than 300 new meters were installed to replace open or unmetered outlets.

Distribution efficiency was increased by the mechanical cleaning of channels and the widespread use of selected weedicides. Some 220 miles of channels and drains was cleaned by excavator, nearly 700 miles was sprayed with Aqualin and other chemicals, whilst over 140 miles was mechanically cleaned. Weed cutting, by launch and by hand, was effected on 160 miles of channels and drains.

Distribution improvements were achieved by continuous co-operation between the Water Distribution staff and the irrigators, resulting in record weekly deliveries during April in areas controlled from Pyramid Hill and Boort. The total volume delivered by Pyramid Hill Centre for the season was the highest achieved, reflecting continued improvement in the capacity and efficiency of the Waranga Western Main Channel.

Drainage maintenance was improved by the development of a new backacter attachment for draglines in the Cohuna and Kerang Areas. This reduced the unit costs of cleaning by about 40 per cent.

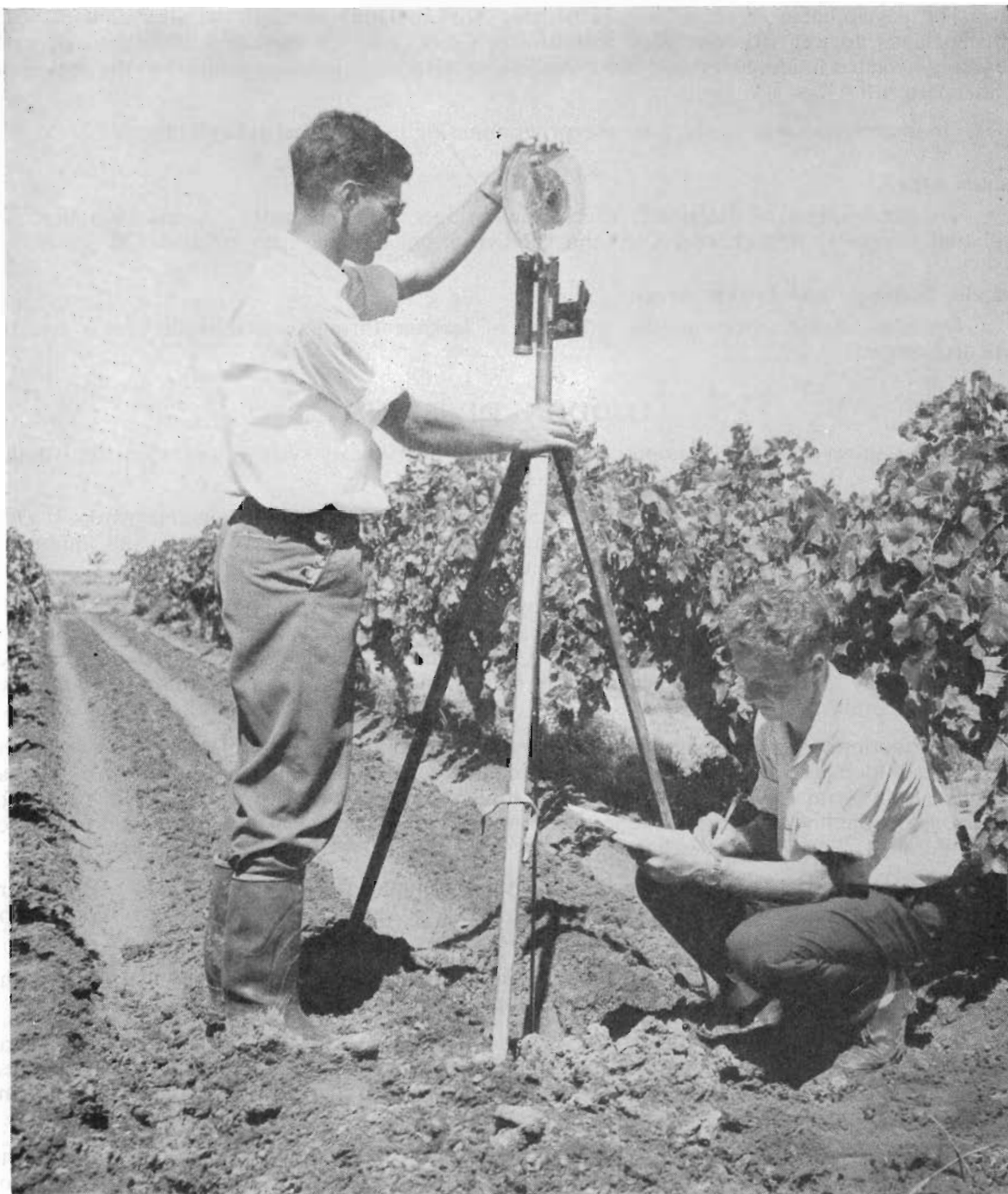
**Administration.**—Work continued on the improvement of office accommodation and the standard of district store depots. Progressive improvements to staff housing were made.

**Swan Hill.**—On the No. 2 Drain, the pump house at the River Murray Outfall was completed and the six pumps with a total capacity of more than 80 cusecs were satisfactorily installed and tested. Earthworks were completed to the 3-mile point and most of the structures to this point were also installed.

**Kerang.**—The most important works were the installation of a pumping station at the northern end of Lake Kangaroo to supply the Mystic Park Main A Channel, and the commencement of the duplication of the Macorna Channel Siphon crossing under the Loddon River. The Mystic Park Main A pumping station, with a capacity of 30 cusecs, will permit peak supplies to be maintained for most of the Mystic Park Irrigation Area without the necessity of holding Lake Kangaroo at full supply level. This will permit larger supplies to be given to other users from the Pyramid Creek-Kerang Lakes System upstream of Lake Kangaroo. The duplication of the Macorna Channel Siphon will permit greatly increased supplies to Kerang irrigators west of the Loddon River.

**Cohuna.**—A second regulator was completed on a lagoon offtaking from the Gunbower National Channel and a third regulator was begun. These dams will permit complete regulation of levels in the effluent lagoons, leading to greatly improved distribution efficiency in areas served by the National Channel. The hydraulic backacter attachment already mentioned, was used to clean 50 miles of district drains with very satisfactory results. Ten private diverters were included in the Goulburn-Murray Irrigation District and applications were received from a further 40 for inclusion in 1963-64.

**Pyramid Hill.**—New Registers of Lands were compiled in the three areas administered from Pyramid Hill Centre. These registers contained completely new land classifications and greatly increased water right allocations ; a considerable administrative burden was placed on the district staff in handling the many queries received from irrigators and preparing the new schedules of water entitlements for the Commission's field staff. This task was satisfactorily handled despite considerable changes in senior district staff during the year.



Commission officers measure the hydraulic conductivity of soil in a vineyard. These measurements are used when determining the depth and spacing of tile drains.

A Briscoe ditcher was used to clean 50 miles of district channels containing up to 18 inches of silt. This operation was successfully carried out at high speed during the winter period and could not have been handled in any other way. The result was reflected in the greatly increased ease of supplying water because of increased channel capacity and lower running costs.

**Boort.**—The greater part of the northern end of the Boort Irrigation Area benefitted from the completion of the third stage of the enlargement of the No. 2 Main Channel. Except for the supply to the 12-Mile Channel System, the Loddon River has been almost eliminated as a carrier of irrigation water, practically all supplies now being via district channels from the Waranga Western Main Channel.

The fourth stage of the Boort No. 2 Channel enlargement, which will permit the supply of the 12-Mile Channel from district channels, was commenced. It is expected that this will be completed during 1963-64.

**Rochester.**—New Registers of Lands were compiled ; despite the volume of administrative work involved in processing, many objections to the new land classifications were satisfactorily handled.

Seven miles of the Rochester No. 1 Drain serving the Bamawm Area were remodelled, and work is proceeding to the limit of funds available.

Irrigators along the Campaspe River between Eppalock Reservoir and the Campaspe Irrigation District were brought into the Goulburn-Murray irrigation district and initial applications for extra water rights were received from many of these landholders. This area is being administered from Rochester Centre.

## SOUTHERN DIVISION

### MACALISTER DISTRICT

Rainfall for the year was 28 inches, being 5 inches above average—and May, 1963, was the sixth wettest month on record with 743 points.

As result of good winter rains, Glenmaggie Reservoir was full in August, 1962, and, with continuing rains and light irrigation demand, was full again in December. Although there was heavy rain in January and May, deliveries for the year were 87,565 acre feet—only 2,400 acre feet less than the record deliveries of the previous year.



This water logged, salt-affected land in the Central Gippsland Area is now being reclaimed. The identical area is shown on page 15.

Reconstruction of deteriorated concrete channels and old galvanized iron flumes ; installation of neoprene seals in meter outlet doors ; and the sealing of 1 mile of leaking channel banks with poly-vinyl-chloride (P.V.C.) sheeting contributed to the raising of district efficiency by 2 per cent. to 56 per cent.

### BACCHUS MARSH AND WERRIBEE DISTRICTS

Low winter rains in 1962 left both Melton and Pykes Creek storages only partly filled ; and even though about 700 acre feet was pumped from Newlyn Reservoir, the situation was serious at the start of the season. However, rainfall of nearly 8 inches in January, and February, caused irrigation to cease for a month, and all requirements were met throughout the year.

**Bacchus Marsh.**—Gunite lining of main channels and pipe replacement of spur channels was continued. The auxiliary pumping scheme from Newlyn Reservoir to maintain supplies to the C.S.R. hardboard factory at Bacchus Marsh was operated during the year.



**Werribee.**—The “Peratol” sealing of cracks in concrete channels and the installation of neoprene meter outlet door seals has maintained the high district efficiency.

Owing to rapid urban development, supply of water for irrigation to the Werribee Police Paddock area of 37 acres outside the Werribee Irrigation District, was discontinued on 30th June, 1963, after a period of 40 years.

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## PUMPING DISTRICTS

### RED CLIFFS

Major maintenance was carried out on  $5\frac{3}{4}$  miles of concrete channels, including guniting of 5 miles and crack sealing of  $\frac{3}{4}$  mile.

Five miles of small supply channels were replaced with pipe lines (four miles of reinforced concrete and 1 mile of asbestos cement). In conjunction with pipeline works, 52 small Dethridge meters fitted with riser valves were installed, bringing the total number now installed to 206 and the area metered to 2,742 acres, representing 24 per cent. of the water right area.

Fifty-four miles of channel banks were sprayed with Propon to control paspalum and 12 miles of drains was sprayed with Diquat for control of cumbungi.

Thirty-one timber silt boxes on the sub-surface drainage system were replaced in concrete, bringing the total so replaced to 1,207, and completing the silt box replacement programme for the district. Fifty-six private silt boxes were by-passed and filled in to eliminate entry of surface water into the main drainage system. Ten road culverts were widened, eight for the Shire of Mildura and two for the Country Roads Board.

### MERBEIN

The maintenance of concrete channels included  $2\frac{1}{2}$  miles of topping and resurfacing, and 3 miles of crack sealing. Two miles of Commission channels and  $1\frac{1}{4}$  mile of party channels was replaced by pipe lines. Sixty miles of channel banks was sprayed with Propon to control paspalum.

Eight highway culverts were widened, leaving a balance of three to be done.

### NYAH

Maintenance of concrete channels included  $1\frac{3}{4}$  miles of crack sealing, and the renewal and repair of thirteen checks and drops. The open cut section of the No. 1 drain in the Nyah township was replaced with 200 feet of concrete pipe.

Eight miles of channels was sprayed with Dalapon for control of paspalum and other growth.

Five defective silt boxes and three timber occupation crossings were replaced in concrete.

### ROBINVALE

All blocks are now joined to the external sub-surface drainage system. Thirty-three miles of sub-surface tile drains was installed by irrigators on their holdings, bringing the district total to 259 miles, an average of approximately 100 chains per block. Four new block pumps were handed over to irrigators.

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## WIMMERA-MALLEE DOMESTIC AND STOCK SUPPLIES

### WATERING

Seasonal conditions during 1962–63 were good, and all domestic and stock requirements were met, 19,059 farmers' dams being filled from the System during the watering period.

Good seasonal conditions and the enlargement of the Main Channel System contributing to the efficient running of channels, the watering period was reduced to 204 days with supply released from headworks of 81,795 acre feet, compared with 281 days with the release of 109,754 acre feet in 1961. (See Appendix C.)

### SAND DRIFT

The good seasonal conditions in the Mallee reduced channel cleaning costs. The expenditure amounted to £59,808, as compared with £69,326 in 1961–62.

## WORKS

The replacement (by concrete pipe siphon 54 inches in diameter), of the 14 chains of galvanized iron fluming conveying the Main Western Channel over the Yarriambiack Creek near Jung, was completed in readiness for the 1963 watering season and is now functioning satisfactorily.

Remodelling of the Wimmera Inlet Channel was continued and the programme of replacement of deteriorated timber bridges with concrete units on remodelled channels has proceeded throughout the whole System.

Work was commenced on the Lake Lonsdale By-pass Channel in connection with the Lake Bellfield Scheme.

## WALPEUP WEST BORES AREA

A new bore, No. 103, was put down at the south-east corner of Allotment 26, Parish of Worooa, increasing the total number of bores in this area to 41.

**Wimmera-Mallee Towns.**—The Commission directly supplies 38 towns in the Wimmera and Mallee from its channel system, while several local authorities are supplied in bulk.

To increase town supply local storages so that channels need be run only once per year, a new storage of 22,000,000 gallons was constructed at Jeparit, and an additional storage of 25,000,000 gallons was constructed at Rainbow.

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## FARM WATER SUPPLIES

The Farm Water Supplies Branch provides technical advice to individual landholders in regard to the development of water supply on their farm properties.

This service covers a wide range of advice such as the practicability of a storage proposal, the suitability of the water for its proposed use, technical aspects of the construction of weirs and dams, riparian rights, the layout of a property for irrigation, suitability of soils and other associated matters.

Requests for these services are received from all parts of the State and the demand is evident from the 224 property inspections carried out during the year. Many other enquiries were dealt with by personal interviews and correspondence and by forwarding pamphlets and brochures where an inspection of the property was not warranted.

Field trials by the C.S. & I.R.O. and Soil Conservation Authority with a view to the reduction of seepage by adding chemicals to various soils, are being observed. The Commission's Engineering Laboratory has assisted by analysing soil and water samples prior to works being carried out.

The Branch will be supplying information concerning farm supplies through the medium of TV telecasts in the near future.

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## URBAN SUPPLIES

### BELLARINE PENINSULA SYSTEM

Bulk supply of water received from the Geelong Waterworks and Sewerage Trust was 561 million gallons, compared with a volume of 511 million gallons in 1961-62. There were no restrictions imposed on the use of water in the towns supplied throughout the system during 1962-63. New services numbered 599, bringing the total number of services at 30th June, 1963, to 6,793.

A new 500,000-gallon steel tank was erected at St. Leonards, and a 10-inch diameter asbestos cement inlet-outlet main was installed between this tank and the Indented Head-St. Leonards supply main.

Throughout the System the Commission installed 3.2 miles of new reticulation mains and 1.8 miles of mains were replaced because of age and inadequate size. In order to increase the supply to Anglesea a length of 0.7 mile of 12-inch asbestos cement main was laid to supplement the existing 6-inch diameter inlet main. A total length of 3.9 miles of reticulation mains was laid by private subdividers at Torquay, Portarlington and Barwon Heads.

At Clifton Springs, near Drysdale, private subdividers installed, at their own cost, 1.0 mile of 24-inch, 21-inch, 18-inch, 15-inch and 10-inch diameter asbestos cement distributory mains and 2.5 miles of reticulation mains. As part of the Clifton Springs water supply scheme, the subdividers erected a new brick pumping station at the Bellarine Basin, and commenced the construction of an 8-million gallon steel tank.

A small booster pump was installed at Barwon Heads to improve supply to the high level area near the Golf Links.

## COLIBAN SYSTEM

The winter season was normal, with sufficient run-off to fill the main storages by the third week in September, 1962. Irrigation was not restricted, and no difficulties were experienced in meeting urban demands throughout the year. Water was supplied to irrigators on the basis of volume allocation permits for the second season.

New services totalled 359, compared with 403 for 1961-62. The total number of services supplied from the system at 30th June, 1963, was 18,585.

Improvement works on the Malmsbury-Bendigo Main Channel included the construction of 1.4 miles of concrete flume, the relining of a length of trapezoidal section of 0.33 mile by guniting and the construction of 1.4 miles of access tracks.

Approximately 2.2 miles of extension mains and 1.5 miles of replacement mains were laid in Bendigo, Castlemaine, Elphinstone, Maldon and Newstead. A length of 1.25 miles of 36-inch diameter steel main was laid in Chum-street, Bendigo, to replace the existing 30-inch diameter wood outlet main from Specimen Hill Reservoir. A programme of cleaning and cement mortar-lining of cast iron mains *in situ* was carried out on a total length of 2.2 miles of 6-in. 9-in. and 18-in. diameter cast iron mains in Bendigo.

The installation of a booster pumping station in Lazarus-street, to improve supply to an isolated high-level area near Alley-street, West Bendigo, was completed. This station was operated under automatic control from early November.

On 4th April, 1963, at a ceremony arranged by the Castlemaine Council and the Commission, the new reservoir supplying Castlemaine was named the "McCay Reservoir" in honour of the retired Deputy Chairman of the Commission, Mr. H. W. McCay, and the McCay family who played a prominent part in that town for many years.

## MORNINGTON PENINSULA SYSTEM

A total of 2,117 new services was added to the system, compared with 2,373 in 1961-62. The number of services supplied by the system at 30th June, 1963, was 28,164. It was not necessary to impose restrictions on the use of water in any of the towns supplied during 1962-63.

The Bunyip Main Race was shut down during two periods totalling eleven weeks for maintenance purposes. Repairs were made to 0.14 miles of concrete channel and 0.21 miles was enlarged.



At Devilbend Project, samples of rock extracted by a diamond drill are being examined and logged.



Work continued in duplicating  $8\frac{1}{2}$  miles of the pipe-line between Bittern Reservoir and Dromana Reservoir with 36-in. diameter steel main, and a length of approximately 8 miles has been laid. A new 36-in. diameter outlet was completed at Bittern Reservoir.

Throughout the System, 42 miles of new reticulation mains were laid, including 13.9 miles in the Dromana-Portsea Urban District, and 8 miles laid by private subdividers. Another 7.7 miles of mains was replaced. To improve supply to the Garfield, Bunyip and Longwarry townships, a total length of 4 miles of 10-in. 12-in. and 15-in. diameter asbestos cement mains was laid to supplement or replace existing supply mains.

Work continued on the programme of cleaning and cement mortar lining of cast iron reticulation mains *in situ*, and approximately 4 miles of mains up to 6 inches in diameter was treated in the Chelsea-Frankston, South Frankston, Mornington, Somerville, Cranbourne and Dandenong-Springvale Urban Districts, and in the Narre Warren North and Hallam Valley areas.

Construction of a 13.4 million gallon excavated storage basin at Mount Eliza was carried out by contract.

The construction of a pumping station at the Rosebud Service Basin required to provide supply to the high-level area at McCrae was commenced.

Reafforestation of the catchment area at Lysterfield Reservoir was continued and 18,913 trees were either planted or tubed.

#### OTWAY SYSTEM

The total quantity of water discharged through the Otway Main Pipeline was 974 million gallons, consisting of 637 million gallons diverted from Arkins Creek and 337 million gallons pumped from the Gellibrand River between October and June. New services numbered 34, compared with 71 for 1961-62. The total number of services supplied by the system at 30th June, 1963, was 3,242, in addition to the City of Warrnambool which purchases water in bulk from the Commission.

The booster stations pumped the following quantities of water:—

Carpentait	..	..	..	..	..	550 million gallons.
Mt. Ewen	..	..	..	..	..	661 million gallons.
Terang	..	..	..	..	..	684 million gallons.

The Carpentait booster pumping station was completed and ready for use early in September. The Cudgee booster pumping station was not required during the year.

The volume of water supplied to the City of Warrnambool was 492.5 million gallons. The pumping station at Brierly Basin was operated as required between 8th August, and 16th April, to augment supply to the low level storage in Warrnambool.

The duplication of 3.4 miles of the Otway Main Pipe-line immediately upstream of the Terang pumping station with 18-in. diameter steel pipe was completed. Work on the duplication of a further section of 2.6 miles of the Otway Main Pipe-line between Tank Hill Storage and Cudgee with 21-in. diameter steel pipe is nearing completion. A length of 2.2 miles of 9-in. diameter asbestos cement main was laid between the Cobden Storage and the Cobden Township as a duplicate supply main. A total length of 0.2 miles of reticulation mains was laid in the Cobden and Camperdown Urban Districts.

#### WONTHAGGI URBAN DISTRICT

Work continued on the programme of cleaning and cement mortar lining of cast iron reticulation mains *in situ* and approximately 2.5 miles of 3-in. and 4in. diameter mains was treated.

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### LOCAL AUTHORITIES

#### TOWN WATER SUPPLIES

New town supplies were brought into operation at six towns—Goornong, Lakes Entrance, Moyhu, Paynesville, Plenty and Yarrambat.

Ten new Trusts were constituted for the supply of water to Axedale, Cudgewa, Forrest, Gembrook-Cockatoo-Emerald, Goorambat, Heywood, Hurstbridge-Panton Hill-Wattle Glen, Metung, Miners Rest and Thorpdale. The Metung Waterworks Trust took over existing works formerly managed by the Tambo Shire Council.

New Urban Districts to be administered by existing Trusts were constituted for Barmah and Darnum; and a new Spring Hill Water Supply District under the control of the Creswick Shire Council was constituted to supply five townships—Allandale, Bloomfield, Kingston, Newlyn and Springmount.

There are now 178 local water authorities operating under the general supervision of the Commission for the supply of water for domestic, general and industrial purposes to 226 towns. Of these, 165 authorities have works in operation to serve 198 towns and a number of these authorities also supply water for domestic and stock use in rural areas.

**Loan and Other Expenditure.**—Loan expenditure by Waterworks Trusts and local governing bodies on country town water supplies in 1962–63 was a record £2,267,777, being £505,842 more than the previous record established in 1961–62. Of this expenditure, £2,165,002 was provided by the Government, the balance of £102,775 being loans from private sources.

Further Government loan funds of £341,516 were advanced to the Latrobe Valley Water and Sewerage Board to enable it to finalize its major water supply works. Work has also begun on a scheme to provide an emergency supply to the Morwell and Hazelwood areas. This comprises a storage of 150 million gallons capacity, a pumping station and supply mains. Reafforestation with pines is in progress around the Moondarra Reservoir.

Loans totalling £1,130,000 were borrowed privately by the Geelong Waterworks and Sewerage Trust to finance larger water supply mains in the Geelong area, the reconditioning of Bell Post Hill Service Basin, and further work on the large earth and rockfill dam which is now approaching completion on the West Barwon River, upstream of Forrest.

The total capital expenditure on town water supplies in 1962–63 was £3,739,293, of which £2,506,518 was advanced from Government loan funds. The corresponding total in the previous year was £3,770,207 of which £2,638,207 was from Government loan funds.

**Other Works.**—The Leongatha Waterworks Trust has completed its third storage on Ruby Creek, with a capacity of 150 million gallons, and the Colac Waterworks Trust has completed its new Olangolah Dam to store 30 million gallons.

New service basins have been completed at Alexandra, Broadford, Healesville, Marysville, Orbost and Rosedale.

Major improvements to supply mains and reticulation have been carried out at Moe, Portland, Shepparton and Yarram, while at Warragul the construction of the 18-in. diameter gravitation main from the Tarago River has made good progress.

Extensive reticulation improvements were effected at Ballarat, together with additional works at the White Swan Reservoir and the construction of office extensions.

A new purification plant commenced operation at Swan Hill, and at Mooroopna construction is proceeding on extensions to the existing plant.

The First Mildura Irrigation Trust made further good progress with its programme of channel and drainage improvement.

## SEWERAGE AUTHORITIES

Six new Sewerage Authorities were constituted for Chelsea, Coleraine, Frankston, Lang Lang, Mount Eliza and Rochester, bringing the total number of Sewerage Authorities to 72, excluding the Geelong Waterworks and Sewerage Trust and the Latrobe Valley Water and Sewerage Board. These authorities all function under the general supervision of the Commission, and in addition, the Commission directly controls the sewerage system at Eildon.

Nine new sewerage schemes were brought into operation at Camperdown, Casteron, Euroa, Korumburra, Lorne, Terang, Werribee, Wodonga and Yarram, and connection of houses to the sewers is in progress. There are now 53 local authorities with sewerage works in operation.

Good progress was also made with new schemes under construction at Mooroopna, Red Cliffs and Tatura.

Loan expenditure by Authorities operating under the Sewerage Districts Acts was £2,981,302, of which £291,302 was provided by the Government as Grant. The corresponding total expenditure in 1961–62 was £2,760,969.

In addition, the Latrobe Valley Water and Sewerage Board received £118,562 from Government funds to enable the piping of an additional 10,000 feet of the Latrobe Valley Outfall Sewer and for improvements at the effluent irrigation farm at Dutson. The Geelong Waterworks and Sewerage Trust borrowed £370,000 privately for extensive additions to the sewer reticulation at Geelong.

The total capital expenditure on sewerage works in country cities and towns was therefore £3,469,864 of which £409,864 was provided from Government loan funds.

Major extensions and improvements to sewer reticulation are in progress at Ballarat, Benalla, Bendigo, Dandenong, Horsham, Moe, Portland, Shepparton, Springvale and Noble Park, Traralgon, Wangaratta and Warrnambool. Additions to sewage treatment works were undertaken at Ararat, Bairnsdale, Ballarat, Dandenong, Kyabram, Moe and Shepparton.

## FLOOD PROTECTION, DRAINAGE AND RIVER IMPROVEMENT

### KOO-WEE-RUP FLOOD PROTECTION DISTRICT

Work on the Yallock Outfall Scheme was continued and included the construction of 30 chains of the eastern bank of the outfall, the excavation of a further  $1\frac{1}{4}$  miles of the North-west Catch Drain as part of this scheme, and the topping of 4 miles of the Main Canal.

The spillway-ford connection between the Main Canal and the Yallock Outfall was completed by contract.

Privately-owned suction dredges removed 7,630 tons of coarse clean sand from the Koo-Wee-Rup Main Canal for commercial use, making a total of 968,158 tons since the commencement of operations in 1925. In addition, 3,339 cubic yards of sand was removed for a similar purpose from the Cardinia Main Drain.

Maintenance included  $15\frac{1}{4}$  miles of drain reconditioning by excavators. In addition, 111 miles was sprayed and 91 miles cleaned by manual labour. Thirty-three bridges were repaired.

### CARRUM DRAINAGE DISTRICT

Enlargement of the Eel Race Drain is in progress and material excavated is being used to raise the south-east bank of the Carrum Outfall from Whatley's drain upstream.

Some further regrading of the bed of Kananook Creek was also carried out.

Maintenance consisted of 8 miles of drain sprayed to kill weed growth and 9 miles cleaned by manual labour.

A residence was constructed on the Nepean Highway for the newly appointed Works Inspector for the district.

### RIVER IMPROVEMENT AND DRAINAGE TRUSTS

Two new Trusts were constituted in 1962-63, one being the River Improvement Trust for the whole of the Shire of Alexandra and the other a Drainage Trust for the Longwarry District. The total number of Trusts now operating is eighteen for River Improvement, and four for Drainage. Applications have been received for the formation of river improvement trusts on the Goulburn River within the Shire of Seymour and on the Cann River within the Shire of Orbost. The Heytesbury Shire Council is proceeding with proposals for the constitution of a Trust for Curdies River.

Satisfactory progress was made by the Trusts in construction of their works. Expenditure for the year under the River Improvement Act was £233,015 (£244,872 for 1961-62). Of this the Government provided £210,299 (£186,893 in 1961-62), bringing the total expenditure by the Trusts since 1950, when the first was formed, to £1,683,912.

The Sludge Abatement Board, the Interstate Committee on Murray Levees and the Interstate Departmental Committee for River Murray Works, were all active during the year.

Inspections of river improvement works in Queensland and drainage works in the south-east of South Australia were made. Several field days of the Trusts were attended and visits were made to many parts of the State where river problems were inspected and discussed.

### PROPOSED VALLEY AUTHORITY

Meetings of the fifteen Municipalities concerned were held to discuss proposals for the formation of a Valley Authority to control arterial drainage and to carry out river improvement in the Dandenong Creek catchment. In recent years the very rapid and widespread residential and industrial development in this area with the attendant accelerated runoff from roofs, roads and buildings has greatly increased the drainage problems in the area. Negotiations are proceeding.

### RIVERS AND STREAMS FUND

Ninety grants from this Fund, amounting to £39,260, were made to local authorities towards the cost of river improvement works as defined in the River Improvement Act. The basis of the grants for river improvement is usually £2 from the Fund to each £1 contributed locally. In most cases the landowners finance the local contribution. Surveys of several important rivers were continued with finance from the Fund.

The revenue to the Rivers and Streams Fund in 1962-63 was £53,470 (£46,169 in 1961-62), of which £33,984 was derived from fees received by the Lands Department for the licencing of frontage reserves along water-courses and lakes in Victoria and £19,486 from the net fees received from licences and permits to divert water. Since the Fund was initiated in 1930, 2,236 grants totalling £633,116 have been authorized.

The system of "Frontage Grants" to River Improvement Trusts was introduced in 1960. In this way fees collected from licences for use of frontage reserves by landholders have been applied towards the cost of improving their streams. In 1962-63, £8,775 was allotted to the sixteen eligible Trusts.

#### LAKE CORANGAMITE RECLAMATION PROJECT

The level of the water in Lake Corangamite rose by  $8\frac{1}{2}$  inches in the winter and spring of 1962 and then fell by  $18\frac{1}{2}$  inches throughout the following summer and autumn. By 30th June, 1963, it was 4 ft. 2 in. below the peak flood level of October, 1960.

A further 21,000 acre feet of water was diverted from the Woody Yaloak River via the Channel to the Barwon River over periods totalling 193 days. The diversions for the four years of operation now total 102,000 acre feet. But for these diversions Lake Corangamite would now stand 16 inches higher and would cover an additional 1,500 acres of agricultural land.

In January, 1963, heavy rain caused water from the Woody Yaloak River to overflow Black's Bridge Barrage into the Cundare Pool for two days, but despite this setback the level in the Cundare Pool has now been lowered 8 ft. 4 in. below the 1960 flood level.

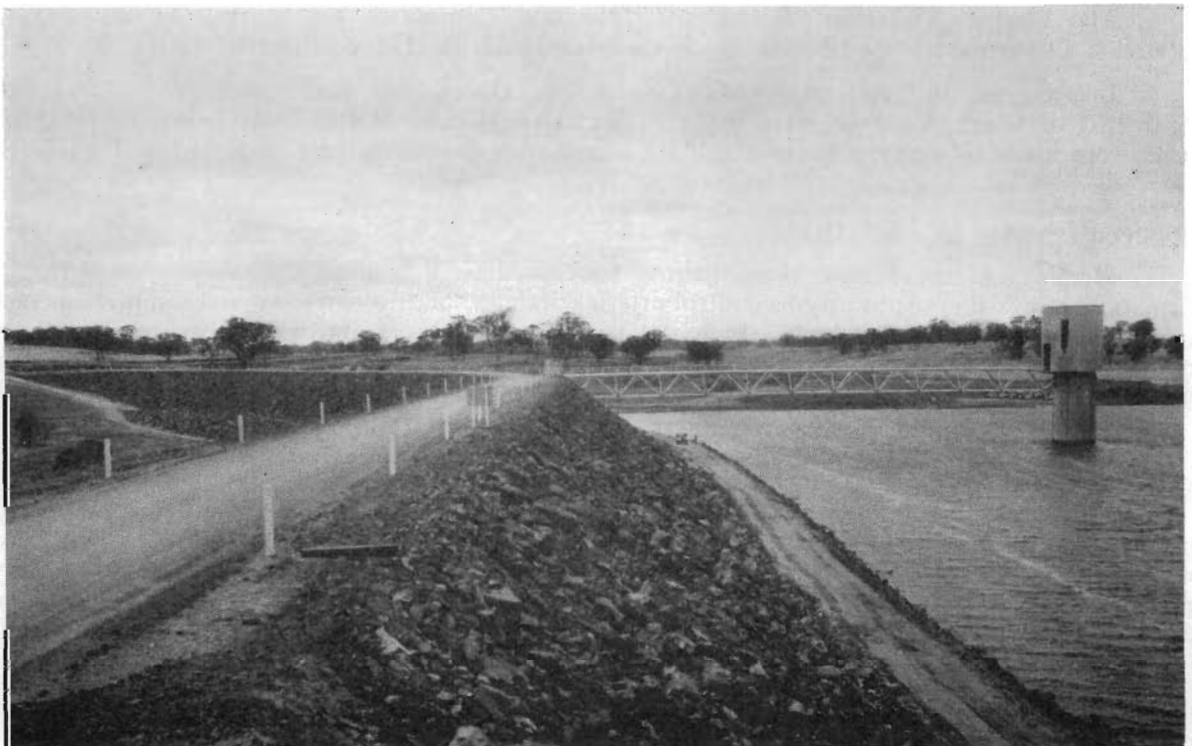
Advantage was taken of the favourable conditions to pump some highly saline water remaining in the Cundare Pool across the Cundare Barrage into Lake Corangamite. Pumping commenced on 1st April, 1963, by means of a temporary installation of six tractor-operated pumping units with a total capacity of about 50 cusecs, working 24 hours per day. Up to 30th June, 6,500 acre feet of water had been pumped, and of the 500,000 tons of salt contained in the waters of the Pool at the commencement of pumping, more than half had been transferred to Lake Corangamite.

The important result of the Cundare Pool pumping operation is that the Pool will form a fresh-water reservoir which can impound 60,000 acre feet of flood waters from the Woody Yaloak River and enable this water to be subsequently safely drained via the diversion channel to the Barwon River without injurious effect on the quality of the water in the Barwon River.

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#### MAJOR WORKS

The Commission's Survey, Investigation and Designs, and Construction groups have been re-arranged, under the overall direction of a Chief Engineer, Major Works, into four Divisions under a Chief Designing Engineer, a Chief Constructional Engineer, a Senior Designing Engineer (Investigations) and a Chief Surveyor.



Lake Eppalock on the Campaspe River near Axedale. Capacity is 250,000 acre feet and storage of water started in May, 1962.

## INVESTIGATIONS FOR FURTHER WORKS

### STORAGES

Investigations were continued into possibilities for the construction of storages on the Buffalo, Broken and Tarago Rivers.

### TORRUMBARRY SYSTEM

Investigations were carried out as to the desirability of constructing a pumping station on the River Murray to supply the area north of Swan Hill, as an alternative to the present supply system through Pyramid Creek and the Kerang Lakes.

The use of Pyramid Creek as a carrier and the future of the lakes and storages in the Torrumbarry system were examined.

### COROP LAKES SCHEME

Investigations were completed into the use of Lake Cooper and Green's Lake (a depression north of Lake Cooper) as storage reservoirs in the Goulburn System.

It is proposed that a total of 48,000 acre feet of storage will be drawn on by a large pumping station at the north end of Green's Lake, discharging into the Waranga Western Main Channel. The Lakes will be joined by a low-level channel and be replenished by inflows from Cornella Creek and the Goulburn River, flows of the latter being conveyed to Lake Cooper through the Waranga Western Main Channel.

### WANNON RIVER

Investigation of dam sites and water quality in the catchment of the Wannon River and its tributaries was continued.

### MELBOURNE WATER SUPPLY

Preliminary investigations were made into methods of augmenting the water supply of the Melbourne metropolitan area, to enable evidence on this matter to be given to the Parliamentary Public Works Committee.

Estimates were made of the water availability and quality, and of the cost of the regulation of the waters of the Lower Yarra River near Warrandyte and of the Maribyrnong River.

## DESIGN

### RURAL WATER SUPPLIES

Subdivision and remodelling designs were prepared in the East and Central Goulburn and in the Rochester Areas for supply channels, drains and bridges. In the Tragowel Plains Area similar work was done, and water-right schedules were compiled to established capacities.

Investigations were made as to full supply levels, grades and cross sections for the Waranga Western Main Channel as far as the Campaspe River. Designs were completed for arrangements to pump from the Campaspe River to the Channel.

A master plan is being prepared for the Torrumbarry System.

### CONSERVATION WORKS

**Goulburn Weir.**—Designs are well advanced for the replacement by radial gates of four central butterfly gates at the old Stuart Murray Canal offtake regulator, built in 1891, and of the other ten gates and crest walls, by steel and concrete units respectively.

**Yarrawonga Weir Offtake.**—Designs were prepared for the replacement of the three central butterfly gates of the Yarrawonga Main offtake regulator by a single vertical-lift, electrically operated gate.

**Eppalock Reservoir Project.**—Designs for the Eppalock-Bendigo pipe-line were well advanced.

**Devilbend Reservoir** (Mornington Peninsula System).—Designs were completed and work has been commenced.

**Mt. Ewen Reservoir** (Otway System).—Progress was made with designs for Stage 1 (a new southern bank) of the Mt. Ewen Reservoir enlargement.

**Lake Bellfield.**—Designs are advanced sufficiently to enable construction to proceed.



Laying a section of the pipeline between Lake Eppalock and Bendigo. The pipeline is of concrete lined mild steel, varying from 30 to 36 inches in diameter. It is nearly 18 miles long.

## CONSTRUCTION

### GOULBURN—LODDON IRRIGATION SYSTEM

Expenditure on new works in the remodelling programme totalled approximately £1,100,000, including £300,000 spent on drainage.

Channel construction and enlargement continued in the North Shepparton, South Shepparton, Rodney and Tongala-Stanhope Areas, and drainage channels were constructed in the North Shepparton, Rodney and Deakin Areas. In North Shepparton a further  $7\frac{1}{2}$  miles of new channels for the Closer Settlement Subdivision in the Dunbulbalane area was completed, raising the total mileage in this area to over 30 miles.

Drainage work in the North Shepparton Area comprised the completion of 5 miles of drains to serve the Dunbulbalane subdivision, the total length of drains now being nearly 39 miles.

Operations were continued in the Rodney area on the main outfall drain and the Mosquito Depression Drain. Both of these drains were in full service for the winter of 1963.

The construction of a new measuring structure to incorporate Sparling meters with a total capacity of 2,000 cusecs for flow measurement in the Waranga Western Main Channel was commenced.

The construction of a pumping station where the Waranga Western Main Channel crosses the Campaspe River was commenced. This work is expected to be completed in time to permit water supplies released from Eppalock Reservoir to be pumped into the Waranga Western Main Channel during the 1963-64 irrigation season.

### MURRAY VALLEY IRRIGATION AREA

Construction of drains to serve the Soldier Settlement Subdivision was continued, the total length of drains now in service being approximately 190 miles. The waterway of Tullah Creek was improved to increase its capacity, thereby preventing flooding of the Barmah State Forest.

The reconstruction was completed of Rices Weir on the Broken Creek, upstream of its confluence with the River Murray. The waterway of the Creek was improved immediately downstream of Numurkah.

### EPPALOCK RESERVOIR PROJECT

The construction of the Dam was completed during the year, and at 30th June, 1963, approximately 115,000 acre feet of water was held in storage.



The construction of the pumping station was continued and the work is now completed to the stage where the pumps can be installed. Eleven miles of the Eppalock-Bendigo pipe-line was completed out of a total planned length of 18 miles.



View down the concrete-lined main spillway at Lake Eppalock. Side wall is 16 ft. high. Full length of the concrete-lined section is 825 feet.

Access roads along the foreshore of the reservoir were completed and a launching ramp to permit the launching of small boats was constructed.

#### LAKE BELLFIELD PROJECT

Construction of an earth and rockfill dam to impound approximately 60,000 acre feet of water on Fyans Creek 3 miles upstream of Halls Gap was commenced. A substantial amount of material was excavated from the foundation, the establishment of a construction depot was largely completed, and deviation of the main road between Halls Gap and Dunkeld was commenced.

#### CENTRAL HIGHLANDS PROJECT

Some work on the aqueduct between the Bolwarrah Reservoir and the Werribee River to convey water from Newlyn Reservoir to Bacchus Marsh was carried out by the Geelong Waterworks and Sewerage Trust. The balance of the work necessary will be put in hand during 1963-64.

#### CARRUM DRAINAGE DISTRICT

Approximately 1 mile of the Eel Race Drain upstream of the new Kananook Creek—Port Phillip Bay Outfall was enlarged. Much of the material excavated was transported to the south bank of the Paterson River Outfall upstream of Whatleys Drain and 1 mile of the embankment was raised to its planned ultimate level by this means.

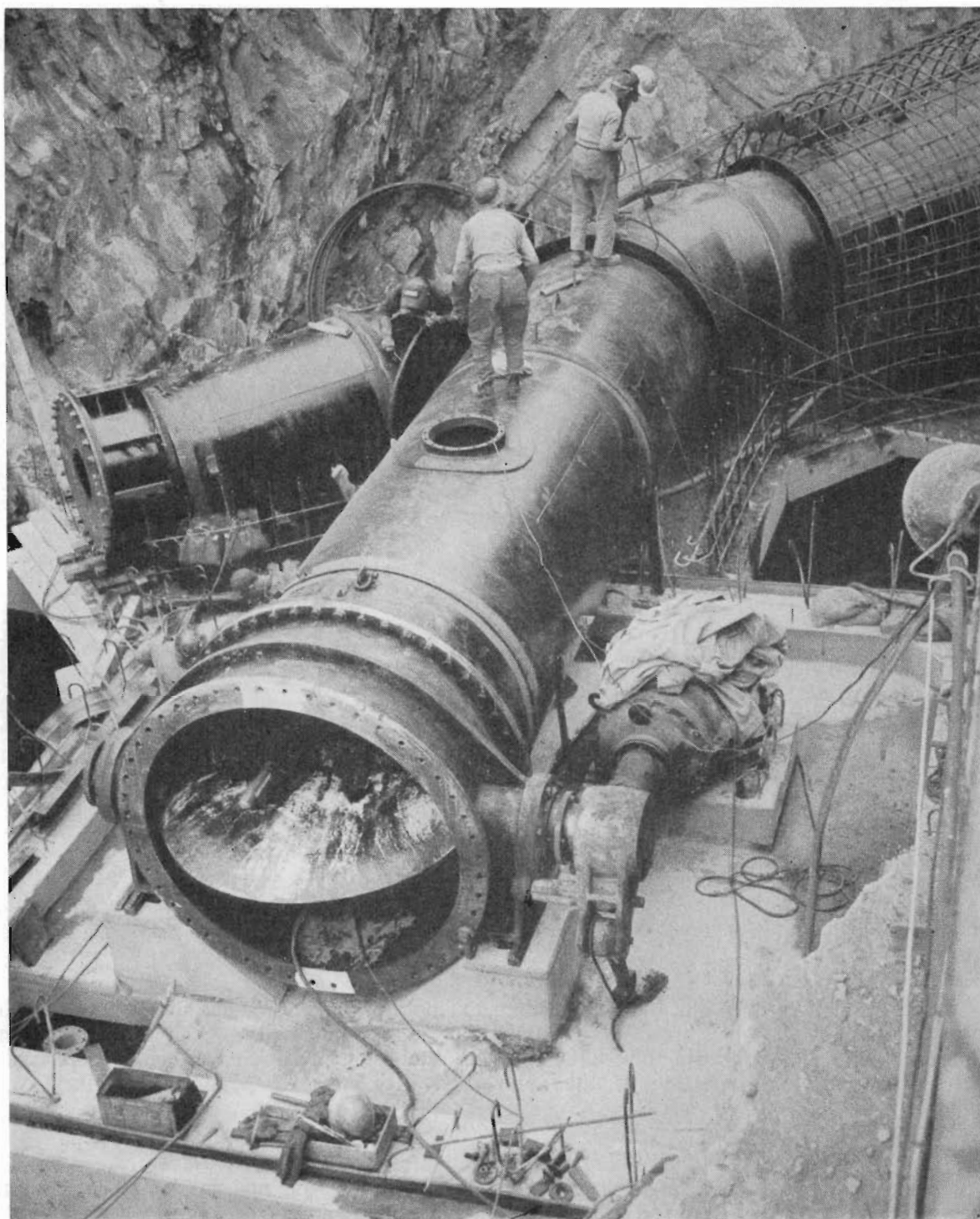
### ENGINEERING LABORATORIES

#### BACTERIOLOGICAL LABORATORY

Equipping of the new laboratory was completed and the newly appointed staff commenced field sampling instruction and laboratory testing of domestic water supplies. Routine testing of supplies from the Commission's Main Urban Centres and from an increasing number of country local authorities has been put in hand.

#### CEMENT AND CONCRETE LABORATORY

Standard tests were conducted on 53 samples of Portland cement. Compression tests were made on 406 concrete specimens.



Installing the main control valve between the outlet tunnel and the pump house at Lake Eppalock. Water will enter from the top right outlet and will then pass either to the pump house via the butterfly valve at the front of the picture or to the river via the outlet on the left. This installation formed part of the outlet works of the original Eildon Dam.

#### CHEMICAL LABORATORY

Water quality analyses were carried out on 2,047 samples and chemical tests were made on 56 samples of cement.

#### SOIL MECHANICS LABORATORY

Soils from 45 localities were tested to provide data for design and construction of Eppalock, Lake Bellfield, Devilbend and Buffalo River Dams, for fourteen Waterworks Trusts' reservoirs (including West Barwon Dam), and for channel works, pipe-lines and regulating structures.

Tests were done for other Departments ; and research work continued in the development of new and improved sampling and testing techniques.



## MATERIALS INSPECTION

Inspection and testing of structural materials and manufactured products including pipes, concrete components, metalwork, valves and meters was continued for the Commission's use, and for other Authorities.

## ENGINEERING RESEARCH SECTION

Investigations were concentrated on the development of strain gauge techniques for studying the behaviour of buried pipe-lines in service. Other activities included testing of protective coatings for metal work and methods of sealing earth channels and dams.

Active participation was maintained in the preparation of Australian Standard Specifications for concrete, steel, cast iron and plastic water pipes, concrete box culverts, rubber jointing rings for water pipes and for pipe laying.

The Commission was represented at the annual conference of the Australasian Corrosion Association in Auckland (New Zealand), where a paper entitled "Reducing the Cost of Corrosion Prevention", was presented.

## HYDRAULIC EXPERIMENTAL STATION, WERRIBEE

Investigations have been conducted into methods of water metering, including the calibration of a large Dethridge meter wheel (under non-standard operating conditions), and a constant-head orifice meter.

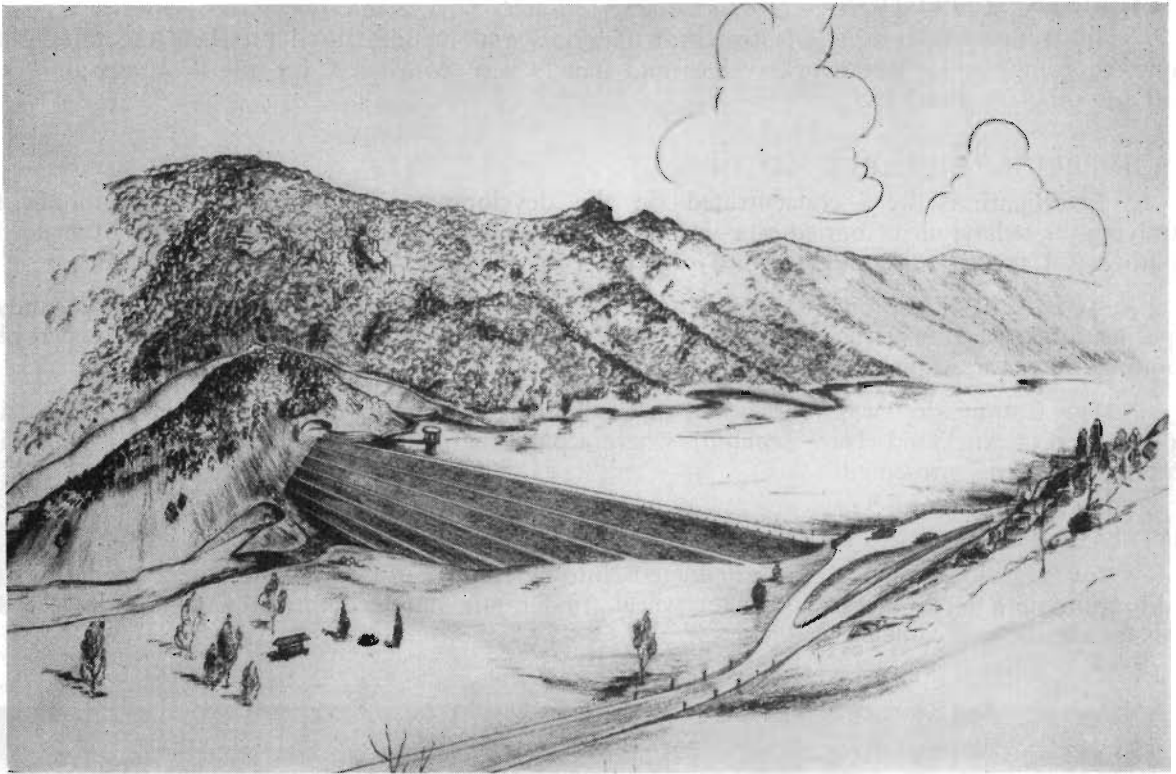


Hon. H. E. Bolte, M.L.A., sets off the explosion which marked the end of the commencement ceremony for Lake Bellfield.

The behaviour of spillways under flood conditions was studied. The Campaspe Weir and Melton Dam spillways were investigated by model studies to determine their likely behaviour under large floods. Energy dissipation downstream of large drop structures in channels was studied to arrive at methods of reducing the scouring of the downstream channel bed and banks.

## HYDROLOGIC RESEARCH

Research was continued into the quantitative treatment of hydrologic data such as rainfall, stream flow and floods, to determine the optimum capacity of storages, spillways and channels. Further analysis of annual stream flows (including some rivers outside Victoria) confirmed the suitability of the "gamma distribution" for rapid estimation of regulated outputs from storages.



Artist's sketch of completed Lake Bellfield Dam.

The seasonal variation of rainfall was taken into account in flood estimating, and investigations made into suitable techniques for combining the distribution of rainfall with the runoff co-efficient to give an improved basis for estimating rare floods.

General hydrologic studies have continued into methods for selecting the most suitable mathematical models for the frequency distribution of hydrologic variables.

### SURVEYS, HYDROGRAPHY AND PLANS

During the year, three pupil surveyors trained by the Commission's staff qualified as Licensed Surveyors. A six weeks' training course was conducted in May and June, 1963, for Field Assistants (Survey). Ten trainees qualified as Survey Assistants. In April, 1963, a draughting group was formed to handle general draughting from a number of Commission sources in addition to survey requirements.

Land resumption and easement surveys were completed in 317 properties, and farm lay-out surveys were undertaken for 41 irrigators. Siltation sections were set out in Eildon Reservoir and siltation checks were made at Rocklands Reservoir and Mildura Weir.

Investigation surveys were made of possible dam sites on the Tarago, Broken, Buffalo, Wannon and Thomson Rivers and Winton Swamp; and detailed surveys of Lake Bellfield dam site and basin were carried out. Ground control for a photogrammetric survey of Hume Reservoir was completed.

Drainage investigation surveys were made in the Rodney, Deakin, Carrum, Koo-Wee-Rup, Murray Valley, Shepparton, Maffra-Sale, Nambrok-Denison, Pyramid and Werribee areas. Pipe line investigations and location surveys were made in the Eppalock-Bendigo, Somers, Flinders and Terang areas.

Topographic surveys were carried out on the Broken, Nine Mile, Rainbow and Norton Creeks, and parts of the Broken and Wimmera Rivers. Three-inch contour surveys were continued in North Shepparton, Rodney and Pyramid Areas. A total area of 13,200 acres was covered.

### MAPS AND PLANS

During the year, 538 title survey plans, 593 engineering plans and sections and 284 graphs and general plans were completed. The Plan Room issued 11,080 prints of original plans, 580 photo-maps and 2,230 aerial photographs.

### HYDROGRAPHY

The number of discharge measurements for the year was 1,707, of which 1,429 were on natural streams and 278 on channels and drains. The total number of stream gauging stations at 30th June, 1963, was 231 including 141 automatic recorder stations.

## PHOTOGRAPHY

During the year, 2,310 photographic films, 10,480 photographic prints and 64,220 plan prints were processed.

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## VALUATIONS

### RATING REVALUATIONS

The revaluation has been carried out of the Goulburn-Murray Irrigation District. This includes Katandra, Murray Valley, Shepparton, North Shepparton, South Shepparton, Rodney, Campaspe, Dingee, Rochester, Calivil, Deakin, Tongala-Stanhope, Boort, Cohuna, Fish Point, Kerang, Mystic Park, Koondrook, Swan Hill, Third Lake and Tragowel Plains Irrigation Areas ; rating revaluations were also carried out in Merbein, Nyah, Red Cliffs, Robinvale, Tresco and Campaspe Irrigation Districts. Bacchus Marsh and Werribee Irrigation Districts and Harcourt Waterworks District were also revalued.

### LAND CLASSIFICATION

The classification of lands in Tongala-Stanhope, Rodney, Rochester, Shepparton and North Shepparton Irrigation Areas was revised.

### LAND ACQUISITION

Claims were received in respect of lands acquired for Eppalock, Devilbend and Bellfield reservoirs and Batyo Catyo water storage, and for irrigation and drainage works in the Goulburn-Murray and Macalister Irrigation, and Wimmera United and Upper Wimmera Waterworks districts.

Agreement in regard to compensation was reached in 190 cases, including 27 flooding and damage cases. Claims aggregated £406,259, but were settled for £265,494. Approximately 375 cases were outstanding at the end of the year awaiting assessment of compensation.

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## PUMPING STATIONS AND PUMPING PLANT

The Commission's main pumping stations, on or near the River Murray, supply water for the Irrigation Districts of Red Cliffs, Merbein, Robinvale, Nyah and Tresco, and the Waterworks Districts of Millewa and Tyntynder North.

Several smaller pumping stations supply water for domestic and stock purposes to farms on high lands, mainly in the Wimmera and Mallee Divisions.

Pumping plant is also operated by the Commission for water supply to more than 60 towns, including bulk supply from the Gellibrand River for the Otway Waterworks District, and for drainage works in many districts.

The total quantity of water pumped for irrigation and domestic and stock water supplies was 158,860 acre feet, including 101,029 acre feet from the River Murray.

### NEW PUMPING PROJECTS

**Carpendeit Booster Pumping Station.**—Construction of an important booster pumping station on the main supply pipe-line for the Otway Waterworks District at Carpendeit was completed. This pumping station provides a maximum boost of 450 feet head, and increases the supply by 400 million gallons per annum.

**Eppalock Pumping Station.**—Work is in progress on the construction of a pumping station at the Eppalock Reservoir, for supply to the Coliban system at a maximum rate of 36 cusecs against a total head of 620 feet. Three pumps will be installed, each driven by a 1,100 h.p. hydraulic turbine utilizing the energy in the water released from the reservoir for irrigation purposes.

**Campaspe Siphon Pumping Station.**—A major pumping station of 200 cusecs capacity is being constructed on the Campaspe River just north of Rochester, for the utilization of Eppalock waters through the existing Waranga Western Main Channel system.

**Drainage Pumps.**—New drainage pumps were installed in the Swan Hill, Koondrook, Murray Valley and Central Gippsland Irrigation Areas. A large station of 90 cusecs capacity was installed to pump water from the Tyntynder Flats at Swan Hill.

**Urban Pumps.**—New pumping plant has been installed or ordered for improved services at Anglesea, Bendigo, Beulah, Piangil and Ultima ; and a new pumping station is being constructed at Rosebud to serve a high-level area.

**Other Works.**—The installation of pumping plant was completed for supply to the Maddingley Basin from the Werribee River at Bacchus Marsh ; and low-head pumps on the main channel supplying the Mystic Park Irrigation Area from Lake Kangaroo.

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## PLANT AND TRANSPORT

Two hundred and thirty-five items of plant were purchased costing £184,807, the main units being seventeen crawler tractors costing £142,648 and eleven wheeled tractors costing £27,334.

Spare parts purchased cost £58,800—a decrease of £8,150 from 1961–62.

Disposals of surplus plant brought in £10,940 and spare parts £1,340.

**Transport.**—Motor vehicles operated totalled 607, including 75 cars, 241 utilities, 78 Land Rovers, 38 motor cycles and 175 heavy trucks. New purchases totalled 182, of which 148 were replacements and 34 additions.

Vehicles covered a total of 6,552,735 miles including 38,679 miles by low-loader transporters for heavy earth moving plant.

\* \* \* \*

## MAJOR STORAGES MAINTENANCE

Regular general maintenance was carried out at all reservoirs.

Some paving displacement occurred on the bank at Hume Reservoir and remedial works have been started. The lock at Mildura Weir was operated for a record total of 363 craft. Some pines have been removed from the plantation at Pykes Creek Reservoir under the instructions of the Forests Commission, because of risk of Sirex wasp infection. Damage was caused by vandals at Melton Reservoir. At Eildon Reservoir the major task of painting the interior of the 23-foot diameter outlet tunnel and penstocks was effected. Four and a half miles of tram track was reconditioned at Waranga. At Goulburn Weir the pool was lowered 4½ feet to allow sector gates to be cleaned. The State Electricity Commission has carried out maintenance on its installations at Cairn Curran.

\* \* \* \*

## HOUSING

Ten new houses were built and contracts let for fifteen others. Three residences were purchased.

At 30th June, there were 667 houses owned by the Commission, plus 33 offices, with seven offices rented. These last exclude Head Office and the South Melbourne store. The figures quoted include houses under construction and eleven at River Murray Commission works, but exclude houses built or purchased for temporary use at Commission works.

The regular movement of Building Inspectors on supervision and routine inspections is raising the standard of general maintenance.

\* \* \* \*

## PUBLIC RELATIONS

The Commission's publicity operations have been consolidated and enlarged. The staff handling these matters now include the following among their duties : the monthly production of "Aqua", a technical journal circulating amongst the staff and sent to 1,300 addresses in Australia and in more than 60 overseas countries ; the preparation and distribution of publications ; gathering information for, and production of the Annual Report ; preparation of displays and exhibits in conjunction with the Irrigation Branch ; and the production of scripts and visual aids for television interviews in which Commission officers participate.

Distribution of publications in bulk to schools has averaged about twenty sets per month and requests for project materials have amounted to about 500 during the year. About 360 enquiries were received for the supply of technical and other information and about 20,000 copies of the folder "Water" were sent to schools for distribution to pupils.

Seven displays were made at country Shows and other places in the Wimmera and in the Irrigation Districts ; and films were screened and talks given on seventeen occasions, ten in the metropolitan area and seven at Stawell, Camperdown, Geelong, Bendigo and other centres.

## TECHNICAL LIBRARY

The origin of the collection of the Commission's Library dates back to the Victorian Water Supply Department. Numerous publications still used bear the stamp of the "Engineer's Library" of that Department. An interesting example is the report made to Parliament by the Chief Engineer in 1867.

The excellent conditions made available when the Commission moved to its new premises in Armadale in 1961 have enabled the library to considerably extend its services in various ways. Exhibitions are held in the library on occasions and a reading area is available to users.

In 1958 arrangements were made for the State Library of Victoria to supply the trained librarians for this library. The present staff of five processes the wide variety of material obtained, and although the bulk of the holdings is of a technical engineering nature, the collection also embraces subjects such as water resources, geology, soil conservation, agriculture, weed control and water testing. Descriptive and historical writings on Victoria and its early settlers and politicians are also available as well as many on economics, personnel and business management and town planning.

A valuable part of the collection is obtained on an exchange basis from organizations, in Australia and overseas, whose activities coincide with some aspect of the Commission's work. These contributing countries include Italy, Japan, Spain, Great Britain, U.S.A., U.S.S.R., India and Israel.



Technical Library—Head Office.

At 30th June, 1963, books and pamphlets numbered 10,775, 525 being new accessions, the whole collection being available to city and country officers of the Commission and outside persons and organizations interested in water supply and associated matters. Journals totalling 409 were received, about 300 being on subscription. These were circulated to officers at Head Office and country centres ; and lists of recently catalogued material were similarly distributed every two months.

The library continued to co-operate in an inter-library loan scheme with the majority of libraries in Australia, so that material or information pertaining to the Commission's interests, but not held in this library could be obtained.

\* \* \* \*

## RECREATIONAL FACILITIES AT RESERVOIRS

Recreational facilities and public amenities are provided by the Commission at its storages under an amendment to the Water Act. The power to do these works was sought by the Commission and obtained in 1954.

Visitors to Commission works increased and boating activities also increased on those storages where the use of boats is allowed. Tourist and camping facilities were provided and serviced by reservoir staffs.



More works for the benefit of the public were carried out, mainly comprising additional toilet facilities, fire-places, fixed tables and benches for picnickers and the planting of trees to enhance the appearance of areas open to the public.

Additional licences to occupy foreshore lands were granted to sporting and other bodies desirous of establishing facilities on the major storages.

The newly completed Eppalock Reservoir is proving very popular because of the easy accessibility to all parts and because of its close proximity to large centres of population. The Commission has provided extensive public facilities in the immediate vicinity of the Dam and is encouraging the local municipalities to provide facilities in other areas around the Lake.

\* \* \* \*

## BOATING CONTROL

The control of boating on Commission storages and other waters has received considerable attention during the year, and good liaison exists between the Commission and other departments and interested organizations. The policing of boating and associated activities is proving most difficult to organize.

The zoning of waters for the most effective control of motor boating on the Murray River storages is also proving most difficult owing to conflicting State interests and the legal implications regarding the exact location of the boundary between the States.

\* \* \* \*

## OVERSEAS VISITS AND STUDIES

Mr. M. G. Speedie, Chief Designing Engineer, visited Japan to attend the Second Asian Conference on Soil Mechanics and Foundation Engineering ; and Mr. F. L. Burns, Designing Engineer, visited New Zealand to attend the annual Conference of the Australasian Corrosion Association.

\* \* \* \*

## ASSOCIATED ORGANIZATIONS

### RIVER MURRAY COMMISSION

Meetings of the River Murray Commission during the year were attended by Mr. L. R. East, Commissioner representing Victoria.

Following a Ministerial Conference held in November, 1962, the River Murray Commission prepared and submitted to the Contracting Governments draft amendments to the River Murray Waters Agreement to include the proposed Chowilla Reservoir as a work of the River Murray Commission (see Foreword).

The River Murray Commission was directed to draft also a Supplemental Agreement to provide for it to share in the use of the Menindee Lakes storages for a limited period pending construction of Chowilla Reservoir, an offer to this effect having been made by New South Wales and accepted by all parties. Pending finalization of this Agreement, the Menindee Lakes storages are being operated in accordance with the terms of the draft Supplemental Agreement, which provides for use of the storages by the River Murray Commission for a period of seven years from 1st January, 1963.

### SNOWY MOUNTAINS COUNCIL

The Snowy Mountains Council is constituted under Snowy Mountains Hydro-electric Agreements, which came into operation in January, 1959, on ratification by the Parliaments of the Commonwealth and the States of New South Wales and Victoria. The duties of the Council include the direction and control of the operation of the permanent works of the Snowy Mountains Hydro-electric Scheme constructed under the Agreements by the Snowy Mountains Hydro-electric Authority, and advising on the co-ordination of works undertaken by the Authority and the two States, in connection with irrigation and the generation and transmission of electricity.

The Council consists of eight members, two each representing the Commonwealth, the respective States, and the Authority.

Meetings of the Council during the year were attended by Mr. L. R. East as a Victorian representative.

## INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE

The International Commission on Irrigation and Drainage, constituted in 1950, is an international organization established to pool experience in the engineering, economic, and social aspects of irrigation and drainage for the mutual benefit of the participating countries. Forty-six countries, including Australia, are members.

The Australian National Committee of the International Commission, comprising representatives of Statutory Authorities, Government Departments, firms and individuals actively interested in irrigation and drainage, was set up in 1953. The State Rivers and Water Supply Commission is a member of the organization, and is represented on the Committee by Mr. L. R. East, who is Chairman of the Australian National Committee.

The Fifth Congress of the International Commission was held in Tokyo in May, 1963, and was attended by Mr. L. R. East as an official representative of the Australian National Committee. Divisional Engineer K. D. Green, and Mr. A. A. Long, who were on leave at the time, also attended this Congress in the course of their travels overseas.

## WATER RESOURCES COUNCIL OF AUSTRALIA

At a Conference of Commonwealth and State Ministers in July, 1962, it was agreed to set up a "Water Resources Council of Australia" with the broad object of facilitating consultation and collaboration between the Commonwealth and State Authorities engaged in research and investigations on water resources.

The Council itself is a Council of Ministers, of which the Victorian Minister of Water Supply, the Honorable W. J. Mibus, M.L.A., is a member.

A Standing Committee of senior Commonwealth and State officers concerned with various aspects of water resources has been set up to advise the Council. Mr. L. R. East is the member of the Standing Committee representing Victoria. The Standing Committee is to be served by three expert Technical Committees—two relatively large committees on surface water and underground water, and a smaller Steering Committee on Research and Education. Mr. A. L. Tisdall is a member of the Steering Committee.

## UNDERGROUND WATER CONFERENCE OF AUSTRALIA

The Underground Water Conference of Australia, comprising two representatives from each State and representatives from appropriate Commonwealth organizations, was set up following recommendations from the Commonwealth–States Conference on Underground Water held in June, 1959.

The third annual meeting of the Conference held in Perth in May, 1963, was attended by Mr. R. H. Richmond.

With the setting up of the Water Resources Council referred to above, the Underground Water Conference will be reconstituted as the Technical Committee of that Council.

## LAND UTILIZATION ADVISORY COUNCIL

The Land Utilization Advisory Council is constituted by the Soil Conservation and Land Utilization Act. Its functions are to make recommendation to the Soil Conservation Authority as to the constitution and definition of "water supply catchment areas" and to advise the Minister for Conservation and the Authority on policy in regard to land use in such "areas" after their proclamation.

The Council consists of the heads of five State Departments or instrumentalities—Soil Conservation, Agriculture, Forests, Lands and Water Supply—or their respective nominees. Meetings during the year were attended by Mr. A. L. Tisdall, deputizing for Mr. L.R. East.

Eighteen catchment areas have so far been proclaimed throughout Victoria.

## WILDLIFE RESERVES INVESTIGATION COMMITTEE

This Committee, set up by the Premier in May, 1959, advises the Government on what lands should be reserved for wildlife, and whether any legislation is necessary for their management.

Mr. A. L. Tisdall, the Deputy Chairman of the Commission, is the Chairman of this Committee.

During the year the Committee investigated a great many proposals for Wildlife reserves and recommended to the Government the proclamation of nine reserves. The Government accepted all of these proposals.

The number of reserves approved since the Committee was set up is eighteen.

## STAFF

There was an overall decrease of five in staff numbers during the year. The total staff is now 1,483.

There was again a considerable turnover, as indicated by the following figures.

## CHANGES IN STAFF NUMBERS.

	1961-62.			1962-63.		
	Professional.	Others.	Total.	Professional.	Others.	Total.
New appointments .. ..	51	115	166	50	126	176
Losses by—						
Retirement .. ..	5	30	35	8	24	32
Resignation .. ..	25	50	75	49	64	113
Transfer .. ..	2	17	19	5	18	23
Other .. ..	..	8	8	4	9	13
Total losses .. ..	32	105	137	66	115	181
Net loss .. ..	..	..	..	16	..	5
Nett gain .. ..	19	10	29	..	11	..

## STAFF TRAINING

Messrs. A. H. Rigg, Secretary of the Commission, and K. D. Green, Divisional Engineer, Loddon Division, attended the 1962 Public Service Board Management Conference at Sherbrooke.

Seven officers of the Stores Branch of the Commission attended lectures on "Stores and Warehouses" conducted by the Victorian Industrial College.

Twenty-three officers attended Supervision Courses conducted by the Public Service Board; fifteen officers attended training courses for Classes "C" and "C1"; and 25 attended Class "E" Induction Course.

One officer attended a Records Management Course, and 67 officers participated in Regional Study Groups at Tatura, Bendigo and Maffra Centres. Several officers attended conferences and short courses of instruction in Data Processing and Electronic Computer Programming. Two Assistant Engineers attended a residential Conservation Course for Engineers conducted by the Natural Resources Conservation League at Springvale.

Various training courses were conducted within the Commission during the year. A conference of District Engineers, Officers and Inspectors in the Wimmera and Mallee Divisions was held at Horsham in February.

The first training course for Head Water Bailiffs and Inspectors from the Goulburn, Loddon and Southern Divisions was held at Head Office. Lectures were followed by discussion of the practical problems of water distribution.

Ten supervisory officers, including one Engineer, attended a course conducted at the Central Plant Workshops, Bendigo, by the Commission in conjunction with the Department of Labour and Industry. This course was designed to train selected officers in Job Instruction and Job Safety.

A preliminary Induction Session was conducted for approximately 30 new appointees during the year. This is to be followed later in 1963, by a full series of Induction Training lectures on the Commission's organization and activities.

Free Places were awarded to four Commission officers to enable them to undertake engineering courses at the University. There are now ten Commission officers completing courses under the Public Service Free Place scheme. In addition, study leave has been granted this academic year to 41 other officers of the Commission to enable them to pursue various courses leading to higher qualifications.



**RETIREMENTS**

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

**Administrative Division.**

Mr. M. T. Ironside, Secretary.  
 Mr. L. A. King, Chief Finance Officer.  
 Mr. A. F. J. Harrison, Administrative Officer.

**Professional Division.**

Mr. L. B. Cullen, Senior Executive Engineer.  
 Mr. A. Khuner, Designing Engineer.  
 Mr. E. A. Croll, Designing Engineer.  
 Mr. C. C. Robinson, Assistant Chief Estates Officer.  
 Mr. A. N. Goff, Mechanical Engineer.  
 Mr. K. Notaros, Assistant Engineer.  
 Mr. A. W. O. Linsell, Senior Draughtsman.  
 Mr. W. A. Bradley, Mechanical Engineer.

**Technical and General Division.**

Mr. E. C. Phair, District Inspector.  
 Mr. W. J. Byrne, Works Inspector.  
 Mr. A. J. Burke, Works Inspector.  
 Mr. H. J. Seipolt, Works Inspector.  
 Mr. R. Newing, Head Water Bailiff.  
 Mr. G. O. Lange, Head Water Bailiff.  
 Mr. J. Armstrong, Senior Water Bailiff.  
 Mr. E. E. Unstead, Senior Water Bailiff.  
 Mr. W. S. Chirgwin, Senior Water Bailiff.  
 Mr. P. P. Wyman, Senior Ranger.  
 Mr. L. Stockdale, Water Bailiff.  
 Mr. R. F. H. Cumming, Water Bailiff.  
 Mr. J. E. Foley, Water Bailiff.  
 Mr. R. M. Marshallsea, Water Bailiff.  
 Mr. A. McD. C. Elstob, Water Bailiff.  
 Mr. H. J. Retallick, Water Bailiff.  
 Mr. G. G. Poole, Water Bailiff.  
 Mr. B. P. Sims, Enquiry Officer.  
 Mr. R. Jolley, Turncock.

**Temporary Employees.**

Mr. H. B. McClelland, Water Bailiff.  
 Mr. N. D. Young, Assistant.

**DEATHS**

The Commission records with regret the deaths during the year of—

**Administrative Division.**

Mr. R. M. Lillico, Administrative Officer.

**Professional Division.**

Mr. H. C. D. Kermode, Divisional Engineer.  
 Mr. N. T. Harding, Executive Engineer.

**Technical and General Division.**

Mr. A. G. Smith, Senior Works Inspector.  
 Mr. H. C. Barry, Head Water Bailiff.  
 Mr. I. R. Theodore, Head Water Bailiff.  
 Mr. A. S. Hall, Inspector.  
 Mr. T. M. Bockholt, Water Bailiff.  
 Mr. R. J. Cooper, Water Bailiff.  
 Mr. F. G. Battye, Ranger.

**Temporary Employees.**

Mr. Ng. K. C., Draughting Assistant.

## SENIOR OFFICERS, DIVISIONAL AND BRANCH HEADS

### Administration.

Secretary .. ..	..	..	A. H. Rigg, J.P.
Chief Finance Officer ..	..	..	W. J. Dynon, A.A.S.A.
Chief Estates Officer ..	..	..	J. F. Horwood, J.P.
Chief Accountant .. ..	..	..	T. L. Stack, A.A.S.A., A.C.I.S., R.C.A.
Staff and Industrial Officer ..	..	..	W. E. Sampson, J.P.
Officer in Charge, Stores Branch ..	..	..	R. A. Stinton, A.A.S.A.
Chief Valuer .. ..	..	..	M. R. Forgarty, F.C.I.V.
Public Relations Officer ..	..	..	I. G. Forbes, M.A.I.C.

### Engineering.

Chief Engineer, Major Works ..	..	..	C. L. Sanders, L.S., A.M.Inst.C.E., F.ASCE., M.I.E.Aust.
Chief Engineer, Town Water Supplies and Local Authorities			R. H. Richmond, B.C.E., M.I.E.Aust.
Chief Divisional Engineer .. ..	..	..	J. W. Moore, M.I.E.Aust.
Chief Mechanical Engineer .. ..	..	..	T. S. Moffat, B.E.E., Dip.Mech.E., A.M.I.E.Aust.
Chief Designing Engineer .. ..	..	..	M. G. Speedie, M.C.E., F.ASCE., M.I.E.Aust.
Chief Constructional Engineer ..	..	..	J. H. Standish, B.C.E., M.I.E.Aust.
Assistant Chief Divisional Engineer ..	..	..	H. L. Credlin, A.M.I.E.Aust.
Assistant Chief Engineer, Major Works			J. L. Maver, M.C.E., A.M.I.E.Aust.
Divisional Engineers—			
Main Urban Supplies .. ..	..	..	E. McD. Walker, B.C.E., A.M.I.E.Aust.
Southern .. ..	..	..	S. W. Rogerson, A.M.I.E.Aust.
Loddon .. ..	..	..	K. D. Green, O.B.E., B.C.E., M.Inst.C.E., F.ASCE., M.I.E.Aust.
Waterworks Trusts and Sewerage Authorities			J. D. Lang, B.C.E., A.M.I.E.Aust.
Mallee Irrigation .. ..	..	..	W. E. Bromfield, B.C.E.
Goulburn .. ..	..	..	J. J. Cummins, B.C.E., A.M.I.E.Aust.
Wimmera-Mallee Waterworks ..	..	..	C. A. R. Evans, B.E., A.M.I.E.Aust., Dip.Pub. Admin.
Rivers and Streams .. ..	..	..	P. E. Olsen, B.E., A.M.I.E.Aust.
Chief Irrigation Officer .. ..	..	..	W. P. Dunk, M.Agr.Sc., M.A.I.A.S.
Chief Surveyor .. ..	..	..	R. G. Mason, L.S., F.I.S.Aust., M.A.I.C.
Superintendent of Water Distribution			J. R. C. Venables

\* \* \* \*

## FINANCE

(W. J. DYNON, A.A.S.A., Chief Finance Officer.)

## REVENUE

The total revenue assessment for the year for rates and charges, sales of water, interest on arrears, &c., was £3,385,444. This represents a decrease of £94,529 as compared with the previous year.

Although rates and other charges increased by £86,503, sales of water decreased by £181,032. Collections during the year totalled £3,451,142, an increase of £100,947 over the previous year.

The total arrears of assessments decreased from £605,459 as at 1st July, 1962, to £538,398 as at 30th June, 1963. The arrears of rates and charges at 30th June, 1963 (£229,991) represents 9.35 per cent. of the current assessment for these items (£2,458,099). Included in this amount is an approximate increase of £58,000 in arrears due in the dried fruit areas.

In regard to the arrears of rates and charges as at 30th June, 1940, which were consolidated and payable by instalments over a period of twenty years under the provisions of the Water Act No. 4740, the balance of instalments remaining unpaid at 30th June, 1963, was £45. Interest on unpaid instalments had accrued to £25.

An amount of £12,715 was written off the books of the Commission for the financial year 1962-63 as compared with £15,138 for the previous year.

The respective amounts paid to Consolidated Revenue during the past three years were :—

Year.	Water Rates and Charges, Diversion and Grazing Fees &c.	Recoup on Account of Payments from Revenue.	Interest on (a) Lands Sold, (b) Plant and Machinery Account, (c) Works for other Authorities.	Total.
	£	£	£	£
1960-61 .. ..	2,943,759	926,624	(a) 7,868 (b) 50,122 (c) 363	3,928,736
1961-62 .. ..	3,350,195	919,224	(a) 5,489 (b) 48,728 (c) 6	4,323,642
1962-63 .. ..	3,451,142	1,003,008	(a) 11,270 (b) 47,417 (c) ..	4,512,837

## EXPENDITURE

The expenditure for the year on maintenance, water distribution and management, and the comparative figures for 1961-62 are set out hereunder :—

	1961-62. £	1962-63. £
From Annual Vote Appropriation .. ..	4,114,094	*4,141,895
From Annual Vote Appropriation (Exceptional) .. ..	24,183	† 24,869
	<u>4,138,277</u>	<u>†4,166,764</u>

\* Includes £473,181 for recoup works and £471,144 for administration in respect of expenditure from other funds charged to vote and recouped to Consolidated Revenue, £87,900 for contributions to River Murray Commission, and £245,326 for miscellaneous National Services.

† Assistance to local Water Authorities.

‡ Excludes £6,742 vote appropriation in respect of Eildon Sewerage District and £279,035 assistance and subsidies to other Sewerage Authorities.

Total expenditure on administration and on works carried out or supervised by the Commission for the year 1962-63 was as set out hereunder :—

	£	£
Vote Funds .. .. .	4,166,764	
Special Appropriations .. .. .	14,110	
	<hr/>	4,180,874
Ordinary Loan Funds—		
Commission Works .. .. .	5,250,768	
Contribution to River Murray Commission Works ..	60,000	
Waterworks Trusts and Local Governing Bodies ..	2,164,774	
River Improvement Trusts .. .. .	233,015	
Latrobe Valley Works of Water Supply .. .. .	341,516	
	<hr/>	8,050,073
Special Loans Funds—Salt Affected Lands .. .. .		3,813
Water Supply Works Depreciation Fund .. .. .		29,214
Irrigation Districts Maintenance Equalization and Renewals Accounts .. .. .		13,751
		<hr/>
Total expenditure on construction, operation, maintenance, and administration of Commission's Works and Water Supply Works supervised by Commission .. .. .		12,277,725*

\* Excludes expenditure from Plant and Machinery Depreciation Fund £245,874, expenditure for work carried out on behalf of Soldier Settlement Commission £3,788, loans to Country Sewerage Authorities £409,864. State Rivers Agency Trust Account £75,864, Special Works Trust Account—Commonwealth Grant—1963, £12,555, and vote expenditure in respect of Eildon and other Sewerage Authorities as mentioned above.

Expenditure on capital construction works was provided from—

	£
Water Supply Loans Application Act No. 6820 .. .. .	2,411,483
Water Supply Loans Application Act No. 6934 .. .. .	5,552,759
Reclamation of Salt Affected Lands Act No. 6604 .. .. .	3,813
Treasurer's Advance .. .. .	85,831
	<hr/>
	8,053,886

In addition, the Capital Loan Liability of the State for works of Country Water Supply was increased as a result of loan conversion operations during the year by an amount of .. .. . 88,304

Total increase in Loan Liability for the year .. .. . 8,142,190

Deduct : Commission repayments to—	£	£
State Loans Repayment Fund .. .. .	258,923	
Redemption Account .. .. .	32,384	
Repayments by Waterworks Trusts and Local Governing Bodies .. .. .	113,747	
Repayments by River Improvement Trusts .. .. .	1,473	
Repayments by Latrobe Valley Works of Water Supply ..	8,633	
	<hr/>	415,160
		7,727,030

Less Transfer of liability—areas transferred from Dandenong-Springvale, Chelsea-Frankston, Carrum Downs, and Mornington Peninsula, to Melbourne and Metropolitan Board of Works .. .. . 187,313

The net increase in Loan Liability for the year was .. .. . 7,539,717

The contribution by the Government of Victoria to the River Murray Commission for the maintenance of works under the River Murray Agreement was £87,900 (included in the expenditure from Annual Vote Appropriations as shown above). The actual expenditure by this Commission on the maintenance of these works was £36,909, and on the construction of new works £23,227.

## CAPITAL LIABILITY

The Capital Loan Liability of the State for Works of country water supply at 30th June, 1963, was £137,434,842 of which amount £110,276,620 is charged to the "Capital Expenditure borne by the State Account". Of the remainder £11,867,362 is charged to Waterworks Trusts and Local Governing Bodies, £267,543 to River Improvement Trusts, £5,095,646 is charged to Latrobe Valley Water Supply under the general supervision of the Commission, £1,553,142 is debited to the Plant and Machinery Account, and the balance £8,374,529 represents the Capital Liability after adjustment, debited to Districts directly under the control of the Commission and to Plant Workshops. These figures are exclusive of an equity of £13,495,041 in the National Debt Sinking Fund.

In accordance with the provisions of Section 81 *Water Act* 1958, No. 6413, interest debited direct to water-users on the cost of capital works incurred after the 30th June, 1943, is charged at the rate of 3 per cent. per annum.

Interest on the Capital Liability for works of Country Water Supply, incurred prior to that date is reckoned at the average rate of interest per centum (as determined by the Treasury) payable by the State of Victoria on securities in respect of Water Supply Loan Liabilities as at the 30th day of June, in the preceding financial year. The average rate per centum of interest so charged for 1962-63 was £4 14s. 8d.

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

	£	s.	d.
Interest .. .. .	5,948,157	15	6
Exchange on Overseas Interest .. .. .	214,910	19	1
Loan Conversion Expenses .. .. .	3,695	9	10
	6,166,764	4	5

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

The following statement shows the approximate interest payment for 1962-63 in relation to the Capital Liability :—

Capital Debited to—	Capital Liability as at 30th June, 1963.	Interest Liability (excluding Exchange and Loan Conversion Expenses).	Interest Paid by Water Users (including Arrears).
	£	£	£
Districts under the direct control of the Commission .. .. .	8,374,529	253,759	230,543
Waterworks Trusts, Local Governing Bodies, River Improvement Trusts and Latrobe Valley	17,230,551	501,295	426,523
Plant and Machinery Account .. .. .	1,553,142	47,417	47,417
Capital Expenditure borne by the State Development Account .. .. .	110,276,620	5,145,687	..
	137,434,842	5,948,158	704,483

## RATES, CHARGES AND VALUATIONS

The rates and charges levied in districts served by the Commission are shown on pages 51-56. The statements set forth the districts supplied with water for domestic use and for watering stock and for irrigation purposes, together with the unimproved capital value and/or the annual value of the lands and tenements and the number of assessments. The general rates, irrigation charges, flood protection rates and charges and drainage rates made in all districts are also shown.

During the year new urban districts of Hampton Park and Indented Head-St. Leonards were constituted. Cardinia and Lower Koo-Wee-Rup Flood Protection Districts were amalgamated and became known as Koo-Wee-Rup Flood Protection District as from 1st July, 1962.

Except in the following districts, the rates and charges made were unaltered from the previous year.

INCREASES.	DECREASES.
<i>Irrigation Districts—</i>	<i>Urban Districts—</i>
Macalister	Drysdale
Merbein	Hastings
Red Cliffs	Leopold
Robinvale	Merbein
Tresco	Mornington
Werribee	Portarlinton
	Tyabb.
<i>Waterworks District—</i>	<i>Flood Protection District—</i>
Upper Wimmera	Loch Garry
<i>Urban Districts—</i>	<i>Drainage District—</i>
Dandenong–Springvale	Carrum.
Natimuk	
Nyah West	
Stanhope.	
<i>Sewerage District—</i>	
Eildon.	

#### IRRIGATION DISTRICTS MAINTENANCE EQUALIZATION AND RENEWALS ACCOUNT

In 1959, Section 68 of the *Water Act* 1958, No. 6413, was amended by Section 2 of the *Water (Irrigation) Act* 1959, No. 6582, to provide for the establishment of the Irrigation Districts Maintenance Equalization and Renewals Account. Irrigation districts were removed from the operation of the Water Supply Works Depreciation Fund and the Water Supply Works Depreciation Account. Future renewals and accrued maintenance were to be financed, with the approval of the Minister, from funds available to each individual district in the Irrigation Districts Maintenance Equalization and Renewals Account.

The amending Act provided that, subject to the certificate of the Auditor-General, the Treasurer would pay to the new account the cash surpluses of each irrigation district at 30th June, each year. In addition contributions by land holders and statutory bodies for the purpose of maintaining and renewing certain works of water supply in perpetuity were to be paid direct to the Account.

The amount at credit of the Account at 1st July, 1962, was £70,453. During the year, an amount of £59,002, representing the cash surpluses of the irrigation districts at 30th June, 1962, was paid into the Account by the Treasurer. A further amount of £1,776, being amounts contributed by landholders and statutory bodies as capitalized maintenance and renewals of water supply works constructed for their respective benefits, was paid direct to the Account.

Expenditure charged to the Account during the year was £13,750 leaving a balance of £117,481 in the account at the 30th June, 1963.

Details of the Account are set out on page 87 of this Report.

Subject to the certificate of the Auditor-General as to the cash surpluses as at 30th June, 1963, an amount of £301,493 will be paid into the account during 1963–64.

This is in respect of the following districts :—

	£
Bacchus Marsh .. .. .	8,901
Campaspe .. .. .	133
Goulburn–Murray .. .. .	241,034
Macalister .. .. .	38,752
Robinvale .. .. .	9,252
Werribee .. .. .	3,421
	<hr/>
	301,493

These funds will be used for maintenance and renewals in irrigation districts in which the total capital expenditure on construction of headworks and distributory works has been £74 million.



## DEPRECIATION

The amount at credit of the Water Supply Works Depreciation Account in the Commission's books at 1st July, 1962, was £965,838.

During the year an amount of £180,335 was raised for depreciation. This includes £998 in respect of Eildon Sewerage District.

After crediting the account with interest amounting to £23,405 and deducting the expenditure for the year £29,213 the balance remaining in the account as at 30th June, 1963, was £1,140,365. However, the position in regard to the actual availability of funds for replacement of deteriorated assets is most unsatisfactory.

The Water Act, No. 6413, Section 83, provides that sums raised in respect of depreciation shall be paid into the Consolidated Revenue or, if the Treasurer so directs, shall to the extent that the Treasurer directs, be placed to the credit of the Water Supply Works Depreciation Fund. The Act provides further that all such moneys paid into the Consolidated Revenue shall be credited to the Water Supply Works Depreciation Account in the books of the Commission and credited with interest each year as if such sums had been placed to the credit of the Fund.

In 1937, the Water Acts were amended with a view to ensuring that adequate depreciation funds would always be available to meet the cost of replacing depreciating assets such as pipe lines, machinery and structures. This legislation provided that all moneys raised by the Commission including moneys raised for depreciation were to be paid to Consolidated Revenue and that there would be transferred to a Depreciation Fund such amounts as the Treasurer directed. Parliament was assured that even though all moneys raised for depreciation might not be transferred immediately to the Fund the Treasurer would have the responsibility of providing funds for replacement of assets as required. The Commission has complied with the accounting provisions of the Water Acts and has raised the necessary amounts for depreciation through rates and charges in the respective districts. These amounts have been credited to the district depreciation accounts in the books of the Commission in accordance with the legislation. However, the amounts transferred to the Depreciation Fund have been very much below the amounts raised and collected for depreciation purposes and paid to Consolidated Revenue.

No transfers have been made to the Water Supply Works Depreciation Fund since 1953-54. In consequence the amount available in the Fund in the Treasury is very much less than the total amount raised and collected for depreciation purposes by means of rates and charges and the difference between the amounts so raised and the credit in the Fund has now reached £1,130,009. The actual credit in the Fund at 30th June, 1963, was only £10,356 and was very much less than required for urgent replacement of deteriorated assets.

The very serious position has now been reached that many deteriorated works must be replaced in the immediate future to maintain water services but no appropriate funds are available for this urgent work. Appropriate transfers to the Depreciation Fund are urgently required.

It is pointed out that the reference to the Depreciation Fund is to urban and waterworks districts and flood protection and drainage districts. It does not apply to irrigation districts where provisions for renewals is made from a separate Irrigation Districts Maintenance Equalization and Renewals Account into which cash surpluses of irrigation districts must be paid each year as already indicated.

Details of the Water Supply Works Depreciation Account are set out on pages 87-89 of this Report.

## PLANT AND MACHINERY ACCOUNTS AND STORES SUSPENSE ACCOUNT

The capital liability for large-size moveable plant and machinery, held in the Plant and Machinery Account at 30th June, 1963, was £1,553,142.

Items of plant and machinery controlled in the Plant and Machinery Account are hired to the respective works on which they are engaged at rates sufficient to provide interest and redemption on the capital cost of the plant, a reserve fund for major overhauls, and depreciation adequate to renew the plant when it has reached the end of its useful life. The operating account is in credit to the extent of £315,430.

The portion of the hire charge representing depreciation is paid direct to the credit of the Water Supply Plant and Machinery Depreciation Fund which is kept in the Treasury. The amount at credit of this Fund, which is interest bearing, was £1,237,310.

The amount at debit of the Water Supply Stores Suspense Account as at 30th June, 1963, was £496,307 whereas the book value of stores and equipment controlled within the account was £811,737. The difference, £315,430, represents the amount at credit of the operating account (also controlled within the Stores Suspense Account) in respect to major items of plant recorded in Plant and Machinery Account.

## FINANCIAL STATEMENTS

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

Operation of the urban and waterworks districts resulted in a net loss of £163,710 which is attributable to those districts whose works will not produce sufficient revenue to cover the expense of maintenance and management thereof and where water supplies are being continued by direction of the Governor in Council.

Details of the results of operations within the various systems for 1962-63 were :—

<i>Losses—</i>						£	£
Coliban System	..	..	..	..	..	4,457	
Otway System	..	..	..	..	..	12,086	
Supplied from River Murray	..	..	..	..	..	56,686	
Wimmera Mallee System	..	..	..	..	..	124,250	
Total Losses	..	..	..	..	..	..	197,479
<i>Gains—</i>							
Bellarine Peninsula System	..	..	..	..	..	7,331	
Mornington Peninsula System	..	..	..	..	..	23,353	
Goulburn, Campaspe and Loddon Systems	..	..	..	..	..	2,689	
Miscellaneous	..	..	..	..	..	396	
Total Gains	..	..	..	..	..	..	33,769
Net Loss	..	..	..	..	..	..	163,710

In accordance with the provisions of the Sewerage Districts Act, the Commission has been authorized to operate the Eildon Sewerage District, and the district has been rated since 1st July, 1957. The financial operations of the district are excluded from the financial statements set out hereunder which refer only to operations of Country Water Supply. Financial statements relating to the Eildon Sewerage District are set out on page 78 of this Report.

## REVENUE EXPENDITURE CHARGEABLE TO THE STATE ACCOUNT

Section 67 (3) (f) provides for a subsidy of such amount as the Governor in Council may authorize to be made available to each district for which water for irrigation is pumped by the Commission or for which the requirements are exceptional because of natural disaster or other special cause.

The subsidies actually provided and charged to the State Account in 1962-63 were :—

<i>District—</i>						£	s.	d.
Nyah	..	..	..	..	..	10,961	19	4
Tresco	..	..	..	..	..	7,644	5	10
						18,606	5	2

Section 47 provides that in respect of districts, other than irrigation districts, whose works will not produce sufficient revenue to cover the expense of maintenance and management thereof and where water supplies are being continued by direction of the Governor in Council, the annual loss in each such district shall be transferred to the “Revenue Expenditure Chargeable to the State Account”.

Throughout 1962-63 the Commission, by direction of the Governor in Council, has continued the operation of 39 such districts and the total cash “losses” so transferred was £197,913.

In sixteen of these districts an aggregate cash surplus of revenue over expenditure of £56,162 was obtained. This amount was applied to Depreciation (£34,964), Redemption (£4,765) and Interest (£15,941), leaving a sum of £492 available to the credit of the respective districts. The net deficiency of the Order in Council districts was, therefore, £197,421.

The districts to which services were continued by direction of the Governor in Council were :—

#### WATERWORKS DISTRICTS (8)

Axe Creek	Mallee	*Normanville	*Otway
Harcourt	Millewa	Northern Mallee	Tyntynder North

#### URBAN DISTRICTS (31)

*Allansford	Jung Jung	Mitiamo	Tempy
Brim	Lake Boga	Murrabit	*Terang
Chillingollah	*Lalbert	*Nandaly	*Ultima
Chinkapook	*Lascelles	Newstead	Waitchie
*Coliban	*Macorna	Nullawil	Walpeup
*Corop	*Manangatang	Nyah	*Werrimull
*Dingee	*Marong	Patchewollock	Yaapect
*Elphinstone	Meringur	Speed	

\* Districts in which revenue exceeded operating costs.

By authority of the Governor in Council, in accordance with Section 102 of the Water Act, No. 6413, the Lower Koo-Wee-Rup and Cardinia Flood Protection Districts were amalgamated as from 1st July, 1962, to form the Koo-Wee-Rup Flood Protection District. At the same time the liability of the former districts was adjusted by transferring to the State the amount of £52,377 7s. 8d. being the losses incurred before the first of July, 1962.

#### NATIONAL SERVICES

Included in the heading of "National Services" are such items as river gaugings and inspections, contributions to the River Murray Commission for the maintenance of River Murray works, supervision and administration in respect of waterworks trusts, sewerage authorities, river improvement trusts, and of works constructed from other funds, &c.

	£
The total cost of services not directly chargeable to districts, including services of a "National Character" was .. .. .	1,707,877
This amount may be offset by miscellaneous revenue collected in respect of rents, recoup payments, &c. .. .. .	1,271,994
	<hr/>
	435,883
	<hr/>

No direct contribution is made to the Commission's revenue by way of rates and charges paid by water users to offset the national services which the Commission is directed to administer.

#### NET COST TO STATE

The net cost to the State for the year in connexion with country water supply which has been met from general revenue was £5,784,957. This figure is often incorrectly quoted as a "loss" in respect of country water supply. On the existing basis of rates and charges there was in fact a cash "gain" of £135,319 being the net surplus of £332,740 on other Commission districts, less the net deficiency of £197,421 on districts the operations of which were continued by direction of the Governor in Council.

A summary of the total cost to the State for the year's operations is set out hereunder—a more detailed analysis is set out on page 58 of this report.

	£	£
Net Surplus on other Commission districts .. ..	332,740	
<i>Less</i> Net Deficiency on "Order in Council" districts ..	197,421	
		<i>Cr.</i> 135,319
Cost of "National Services" .. ..	1,707,877	
<i>Less</i> Miscellaneous revenue collected .. ..	1,271,994	
		435,883
Interest, Exchange, and Loan Conversion Expenses on Headworks and Capital borne by the State ..	5,364,292	
<i>Plus</i> increase in Arrears of Interest owing by Waterworks Trusts .. ..	74,772	
	5,439,064	
<i>Less</i> Interest on Land sold .. ..	11,271	
		5,427,793
		5,728,357
<i>Less</i> Amount paid to Revenue in respect of Depreciation (£179,337) and Redemption (£28,432) .. ..		207,769
		5,520,588
Contribution to National Debt Sinking Fund .. ..	334,182	
<i>Less</i> Recoups paid to Revenue .. ..	69,813	
		264,369
Net Cost to the State .. ..		5,784,957

The net cost to the State for 1962-63 was £345,814 greater than the comparable figure for the previous year and represents £1 18s. per capita of the population of the State. The increase is due primarily to the continued increased charge for interest, exchange, and loan conversion expenses which reached a total of £6,166,764—an increase of £428,447 over the previous year.

Since the charge for interest is determined by the loan liability of the Commission, the continued programme of capital works necessary for development of the water resources of the State must result in an increased charge for interest each year, and with rising rates on borrowed moneys, the charge must increase to a greater extent, with a corresponding tendency to increase the overall cost to the State of country water supply.

#### COMMONWEALTH GRANTS

During the year, the Treasurer made available to the Commission from the "Special Works Trust Account—Commonwealth Grant—1963" special free grants for urgent works. These funds were not a charge against the Commission works.

The expenditure charged against the Trust Account was £12,555, being £2,870 for reticulation and channel maintenance works in the Coliban System and £9,685 for the pumping project at the Cundare Pool as recommended by the Parliamentary Public Works Committee in connection with the Corangamite Project.

In 1961-62 a similar free grant was made by the Treasurer to the Commission and in that year £30,000 for work by River Improvement Trusts was charged to "Commonwealth—State Grants—Additional Assistance Trust Account".

\* \* \* \*



RATES, CHARGES, AND VALUATIONS—*continued.*

Districts Supplied with Water for Domestic and Ordinary Use and for Watering Cattle or Other Stock.	Unimproved Capital Value.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1963, on Unimproved Capital Value.			Minimum Amount of Rate per 640 Acres on Lands in the First Division.	Number of Assessments.	Estimated Number of Persons Dwelling in District.
WATERWORKS DISTRICTS.								
	Valuation by Commission.	Valuation by Commission.	Divisions.					
			1st.	2nd.	3rd.			
<i>Supplied from Wimmera-Mallee System.</i>	£	£	s. d.	s. d.	s. d.	£ s. d.		
11. Mallee .. .. .	5,287,058	945,672	0 3	0 1½	0 0¾	24 0 0 1st Div. ; 12 0 0 2nd Div. ; 6 0 0 3rd Div.	2,865	10,640
12. Northern Mallee .. ..	2,460,400	399,944	0 3	0 1½	0 0¾	24 0 0 1st Div. ; 12 0 0 2nd Div. ; 6 0 0 3rd Div.	3,900	5,400
13. Upper Wimmera .. ..	4,583,630	602,838	0 3	0 1½	0 0¾	28 0 0 1st Div. ; 14 0 0 2nd Div. ; 7 0 0 3rd Div.	2,109	16,343
14. Wimmera .. .. .	10,413,882	1,150,706	0 1·8	0 9·9	0 0·45	36 0 0 1st Div. ; 18 0 0 2nd Div. ; 9 0 0 3rd Div.	4,988	5,783
Total .. .. .	22,744,970	3,099,160	..	..	..	..	13,862	38,166
<i>Supplied direct from River Murray.</i>								
15. Millewa .. .. .	130,894	31,173	0 3	0 1½	0 0¾	24 0 0 1st Div. ; 12 0 0 2nd Div. ; 6 0 0 3rd Div.	340	1,000
16. Tyntynder North .. ..	112,953	16,557	0 3	0 1½	0 0¾	24 0 0 1st Div. ; 12 0 0 2nd Div. ; 6 0 0 3rd Div.	207	400
Total .. .. .	243,847	47,730	..	..	..	..	547	1,400
<i>Supplied from Coliban System.</i>								
17. Axe Creek .. .. .	24,295	5,935	1 6*	..	..	..	75	174
18. Harcourt .. .. .	134,925	37,350	0 3	..	..	..	237	620
Total .. .. .	159,220	43,285	..	..	..	..	312	794
<i>Miscellaneous.</i>								
19. East Loddon .. .. .	823,595	69,267	0 2	0 1	0 0½	..	551	422
20. Kerang North-West Lakes ..	99,246	18,489	0 3	..	..	..	137	235
21. Normanville .. .. .	833,562	48,888	0 3	0 1½	0 0¾	24 0 0	244	415
22. Werribee .. .. .	114,116	34,859	0 1	..	..	..	11	25
23. West Loddon .. .. .	605,265	39,421	0 2	0 1	0 0½	..	318	353
Total .. .. .	2,475,784	210,924	..	..	..	..	1,261	1,450
Total (Waterworks) ..	25,623,821	3,401,099	..	..	..	..	15,982	41,810

\* On Net Annual Value.



## RATES, CHARGES, AND VALUATIONS—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, 1963.	Minimum Amount of Rate for Lands on which there is a Building.	Minimum Amount of Rate for Lands on which there is no Building.	Water Charge per 1,000 Gallons.	Number of Assessments.	Estimated Number of Persons Dwelling in District.
URBAN DISTRICTS.							
	Municipal Valuation.				Rate Allowance.	Excess.	
<i>Supplied from Bellarine Peninsula System.</i>	£	s. d.	s. d.	s. d.	s. d.	s. d.	
24. Anglesea .. .. .	82,966	2 6	80 0	40 0	2 0	2 0	1,277
25. Barwon Heads—Ocean Grove .. .. .	127,606	2 6	80 0	40 0	2 0	2 0	1,691
26. Birregurra .. .. .	9,355	3 6	80 0	40 0	2 0	2 0	1,171
27. Drysdale .. .. .	14,906	3 0	80 0	40 0	2 0	2 0	247
28. Indented Head—St. Leonards .. .. .	40,921	3 6	135 0	40 0	2 0	2 0	975
29. Leopold .. .. .	10,760	3 0	80 0	40 0	2 0	2 0	239
30. Portarlington .. .. .	38,294	3 0	80 0	40 0	2 0	2 0	619
31. Queenscliff—Point Lonsdale .. .. .	141,984	1 6	80 0	40 0	2 0	2 0	1,477
32. Torquay .. .. .	70,873	2 0	80 0	40 0	2 0	2 0	1,140
Total .. .. .	537,665	..	..	..	..	..	7,836
<i>Supplied from Mornington Peninsula System.</i>							
33. Berwick .. .. .	52,392	3 0	80 0	40 0	2 0	2 0	669
34. Bittern—Crib Point .. .. .	34,971	3 0	80 0	40 0	2 0	2 0	580
35. Bunyip .. .. .	14,949	1 6	80 0	40 0	2 0	2 0	240
36. Carrum Downs .. .. .	7,464	3 6	80 0	40 0	2 0	2 0	132
37. Chelsea—Frankston .. .. .	1,248,948	1 6	80 0	40 0	2 0	2 0	8,295
38. Cranbourne .. .. .	27,184	2 6	80 0	40 0	2 0	2 0	398
39. Dandenong—Springvale .. .. .	368,463	1 0	80 0	40 0	2 0	2 0	2,366
40. Dromana—Portsea .. .. .	1,179,285	1 10	80 0	40 0	2 0	2 0	10,364
41. Garfield .. .. .	12,796	1 6	80 0	40 0	2 0	2 0	154
42. Hampton Park .. .. .	10,351	3 6	80 0	40 0	2 0	2 0	277
43. Hastings .. .. .	48,721	2 6	80 0	40 0	2 0	2 0	601
44. Longwarry .. .. .	17,321	1 6	80 0	40 0	2 0	2 0	165
45. Mornington .. .. .	623,403	1 6	80 0	40 0	2 0	2 0	3,786
46. Nar-Nar-Goon—Tynong .. .. .	6,707	3 6	80 0	40 0	2 0	2 0	113
47. Officer .. .. .	8,910	3 6	80 0	40 0	2 0	2 0	118
48. Pakenham .. .. .	51,293	1 6	80 0	40 0	2 0	2 0	452
49. Somerville .. .. .	26,243	1 8	80 0	40 0	2 0	2 0	187
50. South Frankston .. .. .	676,894	1 6	80 0	40 0	2 0	2 0	4,839
51. Tyabb .. .. .	15,817	1 10	80 0	40 0	2 0	2 0	188
Total .. .. .	4,432,102	..	..	..	..	..	33,924
<i>Supplied from Otway System.</i>							
52. Allansford .. .. .	7,359	3 6	80 0	40 0	2 0	2 0	118
53. Camperdown .. .. .	159,619	2 0	80 0	40 0	2 0	2 0	1,212
54. Cobden .. .. .	46,861	2 0	80 0	40 0	2 0	2 0	492
55. Terang .. .. .	91,225	2 0	80 0	40 0	2 0	2 0	880
Total .. .. .	305,064	..	..	..	..	..	2,702
<i>Supplied from Goulburn, Campaspe and Loddon System.</i>							
56. Corop .. .. .	156	3 6	80 0	20 0	2 0	2 0	15
57. Dingee .. .. .	1,281	3 6	80 0	20 0	2 0	2 0	35
58. Gunbower .. .. .	6,941	3 6	80 0	20 0	2 0	2 0	111
59. Koondrook .. .. .	9,147	3 6	80 0	20 0	2 0	2 0	225
60. Leitchville .. .. .	11,060	2 3	80 0	20 0	2 0	2 0	135
61. Lockington .. .. .	10,035	1 9	80 0	20 0	2 0	2 0	165
62. Macorna .. .. .	854	3 6	135 0	20 0	2 0	2 0	44
63. Mitiamo .. .. .	3,334	3 6	130 0	20 0	2 0	2 0	73
64. Murrabit .. .. .	666	3 6	80 0	20 0	2 0	2 0	28
65. Pyramid Hill .. .. .	17,223	1 3	80 0	20 0	2 0	2 0	259
66. Stanhope .. .. .	14,367	2 0	80 0	20 0	2 0	2 0	181
67. Tallygaroopna .. .. .	2,432	3 6	100 0	20 0	2 0	2 0	43
Total .. .. .	77,496	..	..	..	..	..	1,314

## RATES, CHARGES, AND VALUATIONS—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, 1963.	Minimum Amount of Rate for Lands on which there is a Building.	Minimum Amount of Rate for Lands on which there is no Building.	Water Charge per 1,000 Gallons.	Number of Assessments.	Estimated Number of Persons Dwelling in District.
URBAN DISTRICTS—continued.							
	Municipal Valuation.				Rate Allowance.	Excess.	
<i>Supplied direct from River Murray.</i>	£	s. d.	s. d.	s. d.	s. d.	s. d.	
68. Carwarp .. .. .	120	3 6	80 0	20 0	2 0	2 0	24 25
69. Lake Boga .. .. .	6,741	3 6	80 0	20 0	2 0	2 0	200 441
70. Merbein .. .. .	44,337	1 9	80 0	20 0	2 0	2 0	565 1,630
71. Meringur .. .. .	311	3 6	100 0	20 0	2 0	2 0	57 55
72. Nyah .. .. .	3,914	3 6	80 0	20 0	2 0	2 0	112 291
73. Nyah West .. .. .	10,278	3 0	80 0	20 0	2 0	2 0	272 513
74. Piangil .. .. .	2,959	3 6	135 0	20 0	2 0	2 0	129 220
75. Red Cliffs .. .. .	65,513	2 4	80 0	20 0	2 0	2 0	794 2,300
76. Robinvale .. .. .	38,983	1 6	80 0	20 0	2 0	2 0	507 1,100
77. Werrimul .. .. .	2,010	3 6	100 0	20 0	2 0	2 0	76 110
Total .. .. .	175,166	..	..	..	..	..	2,736 6,685
<i>Supplied from Wimmera-Mallee System.</i>							
78. Antwerp .. .. .	524	3 6	80 0	20 0	2 0	2 0	18 56
79. Berriwillock .. .. .	3,559	3 6	80 0	20 0	2 0	2 0	84 200
80. Beulah .. .. .	8,475	3 6	80 0	20 0	2 0	2 0	190 430
81. Birchip .. .. .	23,172	3 0	80 0	20 0	2 0	2 0	409 1,000
82. Brim .. .. .	1,834	3 6	80 0	20 0	2 0	2 0	97 230
83. Chillingollah .. .. .	479	3 6	80 0	20 0	2 0	2 0	54 46
84. Chinkapook .. .. .	802	3 6	80 0	20 0	2 0	2 0	55 70
85. Culgoa .. .. .	3,972	3 6	80 0	20 0	2 0	2 0	83 170
86. Dimboola .. .. .	50,501	1 0	80 0	20 0	2 0	2 0	789 1,655
87. Dooen .. .. .	555	3 6	80 0	20 0	2 0	2 0	7 28
88. Hopetoun .. .. .	20,148	3 6	135 0	20 0	2 0	2 0	318 950
89. Jeparit .. .. .	19,850	1 8	80 0	20 0	2 0	2 0	304 755
90. Jung Jung .. .. .	1,534	3 6	80 0	20 0	2 0	2 0	46 126
91. Lalbert .. .. .	1,965	3 6	80 0	20 0	2 0	2 0	60 141
92. Lascelles .. .. .	1,925	3 6	80 0	20 0	2 0	2 0	74 114
93. Manangatang .. .. .	6,876	3 6	120 0	20 0	2 0	2 0	171 410
94. Marnoo .. .. .	2,686	3 6	80 0	20 0	2 0	2 0	69 225
95. Minyip .. .. .	18,729	3 0	80 0	20 0	2 0	2 0	325 800
96. Nandaly .. .. .	1,082	3 6	80 0	20 0	2 0	2 0	53 110
97. Natimuk .. .. .	6,516	3 0	80 0	20 0	2 0	2 0	173 588
98. Nullawil .. .. .	1,488	3 6	80 0	20 0	2 0	2 0	51 110
99. Ouyen .. .. .	25,000	3 6	80 0	20 0	2 0	2 0	630 1,650
100. Patchewollock .. .. .	2,111	3 6	80 0	20 0	2 0	2 0	78 155
101. Pimpinio .. .. .	882	3 6	125 0	20 0	2 0	2 0	37 125
102. Quambatook .. .. .	9,007	3 6	80 0	20 0	2 0	2 0	194 500
103. Rainbow .. .. .	21,767	1 0	80 0	20 0	2 0	2 0	347 945
104. Rupanyup .. .. .	13,794	3 0	80 0	20 0	2 0	2 0	233 750
105. Sea Lake .. .. .	21,302	3 0	80 0	20 0	2 0	2 0	391 930
106. Speed .. .. .	1,237	3 6	80 0	20 0	2 0	2 0	26 81
107. Tempy .. .. .	650	3 6	80 0	20 0	2 0	2 0	32 77
108. Ultima .. .. .	3,909	3 6	120 0	20 0	2 0	2 0	215 293
109. Waitchie .. .. .	145	3 6	80 0	20 0	2 0	2 0	10 16
110. Walpeup .. .. .	1,581	3 6	130 0	20 0	2 0	2 0	94 120
111. Watchem .. .. .	2,937	3 6	80 0	20 0	2 0	2 0	118 215
112. Woomelang .. .. .	7,999	2 6	80 0	20 0	2 0	2 0	169 400
113. Woorinen .. .. .	3,722	3 6	135 0	40 0	2 0	2 0	111 330
114. Wycheproof .. .. .	22,805	3 3	80 0	20 0	2 0	2 0	389 980
115. Yaapeet .. .. .	652	3 6	80 0	20 0	2 0	2 0	27 56
Total .. .. .	316,172	..	..	..	..	..	6,522 15,837
<i>Miscellaneous.</i>							
116. Eildon .. .. .	40,243	3 0	80 0	20 0	2 0	2 0	394 1,000
117. Heyfield .. .. .	42,479	3 6	80 0	20 0	2 0	2 0	648 2,200
118. Wonthaggi .. .. .	111,178	2 2	50 0	20 0	2 0	2 0	2,019 5,340
Total .. .. .	193,900	..	..	..	..	..	3,061 8,540

RATES, CHARGES, AND VALUATIONS—*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, 1963.	Minimum Amount of Rate for Lands on which there is a Building.	Minimum Amount of Rate for Lands on which there is no Building.	Water Charge per 1,000 Gallons.	Number of Assessments.	Estimated Number of Persons Dwelling in District.
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## COLIBAN SYSTEM.

	Municipal Valuation.				Rate Allowance.	Excess.		
	£	s. d.	s. d.	s. d.	s. d.	s. d.		
119. Coliban .. .. .	1,722,506	1 6	40 0	20 0	2 0	2 0	19,226	56,526
Includes Bendigo, Castlemaine, Eaglehawk, Maldon, Barker's Creek, Campbell's Creek, Chewton, Epsom, Ascot, Fryers-town, Guildford, Harcourt, Huntly, Kangaroo Flat, Myers Flat, Raywood, Sebastian, Spring Gully, Taradale, and Yapeen. See under Waterworks Districts for Axe Creek and Harcourt rural supplies.								
120. Elphinstone .. .. .	1,898	3 6	80 0	20 0	2 0	2 0	44	90
121. Marong .. .. .	2,598	3 6	80 0	20 0	2 0	2 0	53	142
122. Newstead .. .. .	12,006	3 6	80 0	20 0	2 0	2 0	183	415
Total .. .. .	1,739,008	..	..	..	..	..	19,506	57,173
Total (Urban) .. .. .	7,776,573	..	..	..	..	..	77,601	182,380

District.	Unimproved Capital Value.	Rate in the £1 made during Year ended 30th June, 1963, on Unimproved Capital Value.	Number of Assessments.	Estimated Number of Persons Dwelling in District.
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## DRAINAGE DISTRICT.

	£	Divisions.					
		1st.	2nd.	3rd.	4th.		
		s. d.	s. d.	s. d.	s. d.		
123. Carrum .. .. .	4,566,219	0 3	0 2½	0 1½	0 0¾	7,958	9,500

District.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1963, on Net Annual Value.	Number of Assessments.	Estimated Number of Persons Dwelling in District.
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## FLOOD PROTECTION.

	Valuation by Commission. N.A.V.	Divisions.					
		1st.	2nd.	3rd.	4th.		
	£	s. d.	s. d.	s. d.	s. d.		
124. Koo-Wee-Rup .. .. .	314,244	3 4	2 6	1 8	0 10	1,603	4,050
Area.							
125. Kanyapella .. .. .	12,633	0 3	..	0 1½	..	53	12
126. Loch Garry .. .. .	41,609	0 3	..	0 1½	..	120	196
Total (Flood Protection) .. Area N.A.V.	54,242 314,244	..	..	..	..	1,776	4,258

District.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1963.	Number of Assessments.	Estimated Number of Persons Dwelling in District.
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## SEWERAGE DISTRICT.

	Municipal Valuation.	s. d.		
	£			
127. Eildon .. .. .	69,198	2 2	396	1,000

## MISCELLANEOUS WATER CHARGES.

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

For irrigation supplies to lands in the Wimmera Waterworks District the charge for water is 17s. per acre-foot with minimum annual payments for each and every holding. The minimum annual charge is 17s. an acre in respect of the total area authorized to be irrigated under permit or £3 8s., whichever is the greater.

For domestic and stock supplies from the Commission's pipe-lines to properties within the Bellarine Peninsula, Mornington Peninsula, and Otway Waterworks Districts but outside proclaimed Urban Districts, the charges are in accordance with the Commission's By-law No. 5298 or by special agreement, and are as follows :—

*Minimum Annual Charges.*

Land on which there is a House.	Vacant Land.	Minimum Annual Charge.
		£
Area not exceeding 1 acre .. .. .	Area not exceeding 20 acres .. .. .	5
Area greater than 1 acre and not exceeding 20 acres .. .. .	Area greater than 20 acres and not exceeding 40 acres .. .. .	8
Area greater than 20 acres and not exceeding 40 acres .. .. .	Area greater than 40 acres and not exceeding 60 acres .. .. .	11
Area greater than 40 acres and not exceeding 60 acres .. .. .	Area greater than 60 acres and not exceeding 80 acres .. .. .	14
Area greater than 60 acres and not exceeding 80 acres .. .. .	Area greater than 80 acres and not exceeding 100 acres .. .. .	17
Area greater than 80 acres .. .. .	Area greater than 100 acres .. .. .	20

\* \* \* \*

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

Disbursements, 1962-63.

	Operating Expenses.	Interest on Capital Allotted.	Depreciation Paid by Districts.		Redemption Paid by Districts.	Total Disbursements.
			On Works.	On Buildings.		
	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.
Plant Workshops	36,305 13 0	564 13 8	2,672 0 0	..	104 19 2	39,647 5 10
Coliban Works	190,051 2 1	13,861 1 2	25,044 0 0	804 0 0	4,746 7 9	234,506 11 0
Irrigation Districts	1,639,345 1 2	5,685 15 0	..	..	475 0 0	1,645,505 16 2
Waterworks Districts	618,827 11 5	26,643 11 3	30,723 0 0	2,997 0 0	..	679,191 2 8
Urban Districts	327,266 4 5	201,301 11 4	111,994 0 0	1,245 0 0	22,629 8 11	664,436 4 8
Flood Protection Districts	35,894 16 7	..	2,988 0 0	148 0 0	..	39,030 16 7
Carrum Drainage District	16,653 8 1	5,702 4 3	666 0 0	56 0 0	476 9 10	23,554 2 2
Expenditure not chargeable to Districts—River Murray Commission, Recoupable and other items	2,864,343 16 9	253,758 16 8	174,087 0 0	5,250 0 0	28,432 5 8	3,325,871 19 1
	1,595,565 11 3	..	..	..	..	1,595,565 11 3
	4,459,909 8 0	253,758 16 8	174,087 0 0	5,250 0 0	28,432 5 8	4,921,437 10 4

\* Exclusive of Redemption paid in respect of Plant and Machinery Account.

## Receipts, 1962-63.

	Water Rates and Charges, Diversions and Grazing Fees, &c.	Recoups on Account of Payments from Revenue.	Total Receipts.	Less—Transfer to Depreciation Fund.	Net Collections Paid to Consolidated Revenue	Excess (Dr.) Disbursements over Receipts, (Cr.) Receipts over Disbursements.
						£. s. d.
	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.
Plant Workshops	1,214 0 0	52,174 16 8	53,388 16 8	..	53,388 16 8	Cr 13,741 10 10
Coliban Works	229,263 17 9	1,668 4 5	230,932 2 2	..	230,932 2 2	Dr 3,574 8 10
Irrigation Districts	1,889,211 11 6	4,247 9 10	1,893,459 1 4	..	1,893,459 1 4	Cr 247,953 5 2
Waterworks Districts	486,930 4 4	1,050 4 1	487,980 8 5	..	487,980 8 5	Dr 191,210 14 3
Urban Districts	726,894 10 6	108 9 6	727,003 0 0	..	727,003 0 0	Cr 62,566 15 4
Flood Protection Districts	42,953 12 8	..	42,953 12 8	..	42,953 12 8	Cr 3,922 16 1
Carrum Drainage District	25,467 0 1	6 19 1	25,473 19 2	..	25,473 19 2	Cr 1,919 17 0
Miscellaneous Recoups of amounts paid from Revenue not credited to districts	3,401,934 16 10	59,256 3 7	3,461,191 0 5	..	3,461,191 0 5	Cr 135,319 1 4
	49,206 18 8	197 16 2	49,404 14 10	..	49,404 14 10	Cr 49,404 14 10
	..	943,553 17 4	943,553 17 4	..	943,553 17 4	Dr 652,011 13 11
	3,451,141 15 6	1,003,007 17 1	4,454,149 12 7	..	4,454,149 12 7	Dr 467,287 17 9

\*In addition an amount of £34,500 13s. 1d. was collected and paid to Rivers and Streams Fund as net revenue pursuant to Section 40 (1) (b) River Improvement Act 1958 No. 6358.

NOTE. - This statement excludes operation of Eildon Sewerage District : Receipts £8,095 15s. 4d. disbursements (including depreciation) £7,739 18s. 1d.

# SUMMARY OF OPERATIONS FOR YEAR 1962-63.

Receipts		Expenditure		Result
NATIONAL AND OTHER WORKS AND SERVICES				
Construction, Administration, and Works for Other Authorities and Water Users.				
	£. s. d.		£. s. d.	£. s. d.
On-cost received	449,717 2 2	Administration	471,144 1 7	
Recoups of Expenditure	493,136 15 2	Expenditure Recoupable	473,180 9 2	
Deficiency	1,470 13 5			Dr. 1,470 13 5
	<u>944,324 10 9</u>		<u>944,324 10 9</u>	
River Murray, Sewerage, Grazing Rentals, etc. and Miscellaneous National Services.				
Recoup of Expenditure	700 0 0	Commissioner's Salaries	14,110 3 2	
Grants to Sewerage Authorities	279,035 8 2	River Murray, Sewerage and Trusts	391,804 11 0	
Grazing Rentals etc.	49,404 14 10	Miscellaneous National Services	245,326 6 4	
Deficiency	434,412 2 10	Pensions	112,311 5 4	Dr. 434,412 2 10
	<u>763,552 5 10</u>		<u>763,552 5 10</u>	
Net Cost to the State for Services of a National Character				Dr. 435,882 16 3
COMMISSION DISTRICTS				
Rates and Charges	3,461,191 0 5	Vote Funds	2,864,343 16 9	
Less Depreciation Transfer	..	Interest charged on Capital borne by Districts	253,758 16 8	
	<u>3,461,191 0 5</u>	Surplus	343,088 7 0	Cr. 343,088 7 0
	<u>3,461,191 0 5</u>		<u>3,461,191 0 5</u>	
CAPITAL CHARGES				
Interest.				
Interest paid by Trusts	426,523 7 7	Interest, Exchange and Loan Conversion Expenses	6,166,764 4 5	
Interest for Plant Hire etc.	58,688 0 3			
Interest charged to Districts	253,758 16 8			
Deficiency	5,427,793 19 11			Dr. 5,427,793 19 11
	<u>6,166,764 4 5</u>		<u>6,166,764 4 5</u>	
National Debt Sinking Fund.				
Recoup of Contributions -		Contribution to National Debt Sinking Fund	334,182 8 11	
Paid by Trusts	65,861 19 7			
Paid from Plant Hire	3,951 8 10			
Deficiency	264,369 0 6			Dr. 264,369 0 6
	<u>334,182 8 11</u>		<u>334,182 8 11</u>	
Total Expenditure Borne by the State				<u>5,784,957 9 8</u>

Note. - These statements exclude operation of Eildon Sewerage District: Receipts £8,095 15s. 4d., Expenditure £7,739 18s. 1d. Surplus £355 17s. 3d.



## ANALYSIS OF EXPENDITURE BORNE BY THE STATE, 1962-63.

	£. s. d.	£. s. d.
Services of a National Character -		
Contributions by the State of Victoria to the River Murray Commission in accordance with the provisions of the River Murray Water Acts		87,900 0 0
Subsidies to Sewerage Authorities in cases where the interest paid on capital liability is in excess of the rate of 3 per cent.		279,035 8 2
Subsidies to Waterworks Trusts and Local Governing Bodies -		
To enable a reduction of 3¾ per cent. to be made in Water Rates	585 17 0	
Where interest is in excess of 3 per cent. of Loans raised	20,150 5 10	
To limit maximum water rate to 3s. 6d. in the £. N.A.V.	4,133 0 0	24,869 2 10
Miscellaneous Services -		
Administration Waterworks Trusts and Sewerage Authorities	27,856 11 4	
Administration Farm Water Supplies	2,998 15 4	
Irrigation Branch	5,868 17 9	
Travelling - Chairman and Commissioners	2,967 4 6	
Minister's Staff	2,667 6 10	
Free Water for Research, Free Places Melbourne University, Library, Publicity, etc.	26,114 12 11	
Rivers and Streams Division, River Gaugings, Diversions, Land Leasing, Surveys and Reports, Underground Water and Mining Investigations, Hydraulic Research	83,279 9 2	
Portion of General Administration charged to Miscellaneous National Services	93,573 8 6	245,326 6 4
Administration in respect of Expenditure from other Funds and Works carried out for other Authorities		471,144 1 7
Works carried out for other Authorities and Water Users, and salaries charged to construction		473,180 9 2
Total (from Vote Funds)		1,581,455 8 1
Commissioners' Salaries (special appropriations)		14,110 3 2
Amount debited by the Treasury for Pensions		112,311 5 4
		1,707,876 16 7
Less Revenue received from Grazing Licences, Rents etc.	49,404 14 10	
" Oncost of Expenditure from other Funds	449,717 2 2	
" Recoups	493,136 15 2	
" Special Recoup, Commissioners' Salaries	700 0 0	
" Grant by State, Subsidies to Sewerage Authorities	279,035 8 2	1,271,994 0 4
NET COST to the State for Services of a National Character		435,882 16 3
Commission Districts -		
Districts which were required to meet all annual operating costs -		
Excess Revenue over Expenditure after allowing for Depreciation £131,122 and Redemption £23,667 7s. 9d.	Cr. 559,330 18 2	
Current Interest -	£. s. d.	
Paid	214,602 6 7	
Forward Unpaid	11,988 17 9	226,591 4 4
		Cr. 332,739 13 10
Districts supplied by direction of Governor in Council, but which show excess Revenue over Expenditure after allowing for Depreciation £34,964 9s. 0d. and redemption £4,764 17s. 11d.	16,432 16 11	
Less Current Interest Paid	15,940 16 3	Cr. 492 0 8
		Cr. 333,231 14 6
Districts supplied by direction of the Governor in Council and which show excess Expenditure over Revenue inclusive of Interest £11,226 16s. 1d. and Depreciation £13,250 11s. 0d.		Dr. 197,912 13 2
		Cr. 135,319 1 4
Add Amounts transferred to Water Supply Works Depreciation Fund in Treasury on account of moneys paid to Revenue and Interest credited to Depreciation Account		..
	Cr. 135,319 1 4	
Add Amounts paid to Revenue in respect of Depreciation on Works and Buildings £179,337 and Redemption £28,432 5s. 8d.	207,769 5 8	Cr. 343,088 7 0
		92,794 9 3
Capital Charges -		
Interest on Capital Expenditure on Headworks and other Capital Expenditure borne by the State	5,145,686 6 6	
Exchange on Overseas Interest payments	214,910 19 1	
Loan Conversion Expenses	3,695 9 10	
	5,364,292 15 5	
Plus Increase in Arrears of Interest owing by Waterworks Trusts and other Corporations	74,771 18 2	
	5,439,064 13 7	
Less Interest received on land sold	11,270 13 8	5,427,793 19 11
National Debt Sinking Fund Operations -		
Contributions to Fund	£. s. d. 334,182 8 11	
Less Recoups paid by River Improvement Trusts	404 4 1	
" Recoups paid by Waterworks Trusts	65,457 15 6	
" Recoups paid by Plant Hire	3,951 8 10	69,813 8 5
		264,369 0 6
NET EXPENDITURE borne by the State		5,784,957 9 8

NOTE. - This statement excludes operations of Eildon Sewerage District.

CASH ACCOUNTS FOR FINANCIAL YEAR 1962-63.

DISTRICT.	RECEIPTS.	EXPENDITURE.					ACCUMULATED.			
		Operating Costs.	Interest.	Depreciation.	Redemption.	Excess Expenditure over Receipts 1962-63.	Excess Receipts over Expenditure 1962-63.	Surplus Credited to District Account at 30th June, 1963.	Deficiency Chargeable to District Account at 30th June, 1963.	Deficiency Chargeable to State Account at 30th June, 1963.
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.
PLANT WORKSHOPS.										
Bendigo	46,579 16 4	30,738 8 4	510 17 8	2,050 0 0	88 3 8	..	13,192 6 8	..	3,780 2 7	..
Residences	1,214 0 0	766 0 0	..	350 0 0	..	..	98 0 0	..	856 6 3	..
Total Central Plant Workshops	47,793 16 4	31,504 8 4	510 17 8	2,400 0 0	88 3 8	..	13,290 6 8	..	4,636 8 10	..
Kerang Sub-Depot	2,981 14 4	2,337 2 4	53 16 0	222 0 0	16 15 6	..	352 0 6	15 9 1	..	..
Tatura Sub-Depot	2,613 6 0	2,464 2 4	..	50 0 0	..	..	99 3 8	26 0 10	..	..
Totale	53,388 16 8	36,305 13 0	564 13 8	2,672 0 0	104 19 2	..	13,741 10 10	41 9 11	4,636 8 10	..

COLIBAN SYSTEM.

• Axe Creek	972 12 9	2,088 13 3	..	4 0 0	..	1,120 0 6	..	..	1,539 1 10	5,977 14 6
• Coliban	222,678 8 6	178,525 18 3	13,860 2 6	25,546 0 0	4,746 7 9	..	..	..	46,251 6 1	1,326,532 2 8
• Elphinstone	423 12 5	281 1 0	..	124 0 0	..	..	18 11 5	..	34 2 6	236 2 10
• Harcourt	6,166 4 3	8,532 5 6	..	43 0 0	..	2,409 1 3	..	..	7,079 2 3	5,164 6 4
• Marong	691 4 3	623 4 1	0 18 8	131 0 0	..	63 18 6	..	..	169 1 4	1,671 14 6
Totale	230,932 2 2	190,051 2 1	13,861 1 2	25,848 0 0	4,746 7 9	3,533 0 3	18 11 5	..	55,072 14 0	1,339,582 0 10

• The Districts marked thus are those whose works will not produce sufficient revenue to cover the expense of maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure chargeable to the State Account". (By authority of Order in Council dated 6th March, 1963, under the provisions of Section 47, Water Act 1958, No. 6413.)

PROFIT AND LOSS ACCOUNTS FOR FINANCIAL YEAR 1962-63.

DISTRICT.	EXPENDITURE.			PROFIT AND LOSS.		APPROPRIATION.			
	NET REVENUE ASSESSMENT.	Operating Cost, Interest and Depreciation.	Redemption Charged.	Excess Expenditure over Revenue 1962-63.	Excess Revenue over Expenditure 1962-63.	Adjustments to Revenue of Former Years Including Amounts Written Off. (A) Loss (B) Gain.	Interest and Other Losses before 1st July, 1938. Borne by State (Act. No. 6413, Sec. 54).	Loss Since 30th June, 1938.	Gain as at 30th June, 1963.
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.
PLANT WORKSHOPS.									
Pendigo	33,611 18 2	33,299 6 0	44 1 10	..	268 10 4	..	..	..	4,062 9 3
Residences	1,214 0 0	1,116 0 0	..	..	98 0 0	..	..	856 6 3	..
Total Central Plant Workshops	34,825 18 2	34,415 6 0	44 1 10	..	366 10 4	..	..	..	3,206 3 0
Kerang Sub-Depot	2,981 14 4	2,612 18 4	4 11 1	..	364 4 11	..	..	..	15 9 1
Tatura Sub-Depot	2,613 6 0	2,514 2 4	..	..	99 3 8	..	..	..	26 0 10
Totals	40,420 18 6	39,542 6 8	48 12 11	..	829 18 11	..	..	..	3,247 12 11

COLIBAN SYSTEM.

* Axe Creek	1,019 17 0	2,092 13 3	..	1,072 16 3	..	..	..	7,341 18 5	..
* Coliban	217,707 18 1	217,932 0 9	733 0 0	957 2 8	..	(A) 115 19 10	828,373 18 10	519,872 8 0	..
* Elphinstone	455 15 5	405 1 0	..	..	50 14 5	..	..	233 3 8	..
* Harcourt	6,073 5 6	8,575 5 6	..	2,502 0 0	..	..	..	12,391 5 3	..
* Marong	779 5 6	755 2 9	0 1 10	..	24 0 11	..	..	1,584 19 9	..
Totals	226,036 1 6	229,760 3 3	733 1 10	4,531 18 11	74 15 4	(A) 115 19 10	828,373 18 10	541,423 15 1	..

\* The Districts marked thus are those whose works will not produce sufficient revenue to cover the expense of maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loan repaid 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 6th March, 1963, under the provisions of Section 47, Water Act 1956, No. 6413.)

IRRIGATION DISTRICTS.

CASH ACCOUNTS FOR FINANCIAL YEAR 1962-63.

DISTRICT.	RECEIPTS.	EXPENDITURE.			O.I.C. Subsidy (Act No. 6413 Sec. 67 (3) (f)), Charged to Expenditure Borne by State Account.	Excess Expenditure over Receipts and Subsidy 1962-63.	Excess Receipts and Subsidy over Expenditure 1962-63.	Amounts Transferred to Equalization and Renewals Account 1962-63.	ACCUMULATED.		
		Operating Costs.	Interest.	Redemption.					Surplus Credited to District Account at 30th June, 1963.	Deficiency Charged to District Account at 30th June, 1963.	Deficiency Charged to State Account at 30th June, 1963.
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.
Bactus Marsh.	42,521 14 2	27,459 9 10	5,685 15 0	475 0 0	..	..	8,901 9 4	7,367 8 6	8,901 9 4	..	21,170 8 3
Campure	1,733 5 8	1,599 17 10	..	..	..	..	133 7 10	226 18 0	133 7 10	..	4,994 2 7
Goulburn-Kurray	1,334,288 7 4	1,093,254 5 4	..	..	..	..	241,034 2 0	18,221 2 7	241,034 2 0	..	712,566 3 10
Macallister	168,352 5 2	129,607 7 1	..	..	..	..	38,751 18 1	22,434 5 9	38,751 18 1	..	3,713 1 5
Narabein	85,026 6 4	96,061 3 9	..	..	..	11,035 3 5	..	..	..	11,792 10 6	125,301 9 0
Nyah	28,851 7 9	37,327 1 4	..	..	10,961 19 4	..	2,486 5 9	..	..	12,624 19 0	117,818 2 3
Red Cliffs	122,398 11 9	147,320 6 8	..	..	..	25,121 14 11	..	..	..	25,406 5 1	268,775 10 11
Robinvale	66,004 15 6	56,753 6 0	..	..	..	..	9,251 9 6	8,330 9 0	9,251 9 6	..	127,590 9 10
Trescow	12,627 0 9	21,534 1 2	..	..	7,644 5 10	1,262 14 7	..	..	..	6,449 11 3	179,992 0 2
Verribee	31,648 12 11	28,228 2 2	..	..	..	..	3,420 10 9	2,421 8 7	3,420 10 9	..	52,707 6 11
Totals	1,897,459 1 4	1,639,345 1 2	5,685 15 0	475 0 0	18,606 5 2	37,419 12 11	307,979 3 3	59,001 12 5	301,492 17 6	56,273 5 10	1,614,628 15 2

IRRIGATION DISTRICTS.

PROFIT AND LOSS ACCOUNTS FOR FINANCIAL YEAR 1962-63.

DISTRICT.	NET REVENUE		EXPENDITURE.		PROFIT AND LOSS.		APPROPRIATION.				ACCUMULATED.	
	£.	s. d.	Operating Costs and Interest.	Redemption.	O.I.C. Subsidy (Act No. 6013, Sec. 67 (3) (f)), Chargeable to Expenditure Borne by State Account.	Excess Expenditure over Revenue 1962-63.	Excess Revenue over Expenditure 1962-63.	Amount Transferred to Maintenance Equalization and Renewals Account.	Adjustments to Revenue of Former Years Including Amounts Written Off. (A) Loss. (B) Gain.	Losses Borne by State Account at 30th June, 1963.	District Loss at 30th June, 1963.	District Gain as at 30th June, 1963.
1.	2.		3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
	£.	s. d.	£.	s. d.	£.	s. d.	£.	s. d.	£.	s. d.	£.	s. d.
Bacchus Marsh	35,852	17 4	33,145	4 10	..	..	2,232	12 6	(A) 2 0 0	21,170	8 3	4,467 15 5
Campaspe	2,047	9 1	1,599	17 10	..	..	447	11 3	..	4,994	2 7	462 6 0
Goulburn-Murray	1,266,774	16 7	1,093,254	5 4	..	..	173,520	11 3	(B) 11,488 2 4	712,566	3 10	467,338 16 2
Macalister	159,262	14 6	129,607	7 1	..	..	29,655	7 5	(A) 607 14 9	3,713	1 5	54,608 7 11
Merbein	106,020	15 4	96,061	3 9	..	..	11,959	11 7	..	125,301	9 0	14,531 3 3
Nyah	27,745	10 5	37,327	1 4	10,961	19 4	1,380	8 5	..	117,818	2 3	..
Red Cliffs	151,926	5 7	147,520	6 8	..	..	4,405	18 11	(B) 6 11 8	268,775	10 11	4,412 10 7
Robinvale	71,402	2 4	56,753	6 0	..	..	14,648	16 4	..	127,590	9 10	16,469 9 6
Tresco	13,889	15 4	21,534	1 2	7,644	5 10	..	..	..	179,992	0 2	..
Werribee	29,918	18 2	28,228	2 2	..	..	1,690	16 0	(A) 0 13 6	52,707	6 11	4,845 12 4
Totals	1,866,841	4 8	1,645,030	16 2	18,606	5 2	..	239,941 13 8	(B) 884 5 9	1,614,628	15 2	567,136 1 2

# WATERWORKS DISTRICTS.

## CASH ACCOUNTS FOR FINANCIAL YEAR 1962-63.

DISTRICT.	RECEIPTS.	EXPENDITURE.						ACCUMULATED.			
		Operating Costs.	Interest.	Depreciation.	Redemption.	Excess Expenditure over Receipts 1962-63.	Excess Receipts over Expenditure 1962-63.	Surplus Credited to District Account at 30th June, 1963.	Deficiency Charged to District Account at 30th June, 1963.	Deficiency Chargeable to State Account at 30th June, 1963.	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	
	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	
BELLARINE PENINSULA	7,857 6 7	3,480 9 3	..	1,818 0 0	..	..	2,558 17 4	..	49,509 7 7	9,927 9 8	
MORNINGTON PENINSULA	39,200 10 3	19,865 15 1	16,580 12 4	10,079 0 0	..	7,324 17 2	..	43,396 16 8	..	1,077 12	
OTWAY	45,449 15 6	38,165 12 9	10,062 18 11	7,671 0 0	..	10,449 16 2	..	2,756 8 3	..	49,707 14 4	
SUPPLIED FROM GOULBURN, CAMPASPE & LODDON SYSTEMS											
East Loddon	6,751 10 8	6,378 17 1	..	15 0 0	..	..	357 13 7	2,842 2 8	..	700 1 11	
Normanville	10,647 4 6	10,329 2 1	..	396 0 0	..	..	..	2,787 4 3	6,621 7 6	1,971 19 1	
West Loddon	9,535 8 5	7,162 19 3	..	..	..	..	2,170 9 2	..	..	..	
System Totals	26,732 3 7	23,870 18 5	..	411 0 0	..	77 17 7	2,528 2 9	5,629 6 11	6,621 7 6	2,672 1 0	
SUPPLIED FROM RIVER MURRAY											
Millewa	24,584 2 6	68,138 11 6	..	7,579 0 0	..	51,133 9 0	..	..	69,767 14 9	1,340,816 16 4	
Tyntynder North	8,766 0 7	16,300 1 6	..	270 0 0	..	7,804 0 11	..	..	20,097 16 8	268,806 0 10	
System Totals	33,350 3 1	84,438 13 0	..	7,849 0 0	..	58,937 9 11	..	..	89,865 11 5	1,609,622 17 2	
SUPPLIED FROM WIMMERA-MALLEE SYSTEM											
Mallee	87,011 2 4	128,177 10 9	..	1,180 0 0	..	42,346 8 5	..	..	89,693 16 11	787,434 2 10	
Northern Mallee	70,273 1 10	144,089 9 0	..	1,745 0 0	..	75,561 7 2	..	..	213,353 13 10	1,871,359 2 7	
Upper Wimmera	61,871 19 1	58,784 16 5	..	421 0 0	..	..	2,666 2 8	..	26,513 16 9	57,238 13 9	
Wimmera	111,976 19 1	115,541 18 7	..	2,546 0 0	..	6,110 19 6	..	..	80,466 9 8	16,100 19 8	
System Totals	331,133 2 4	446,593 14 9	..	5,892 0 0	..	124,018 15 1	2,666 2 8	..	410,027 17 2	2,732,132 18 10	
MISCELLANEOUS											
Kerang-North West Lakes	3,787 16 7	2,049 13 1	..	..	..	..	1,738 3 6	3,403 16 9	..	3,738 2 0	
Merribee	469 10 6	362 15 1	..	..	..	..	106 15 5	..	882 9 8	2,755 9 5	
Miscellaneous Totals	4,257 7 1	2,412 8 2	..	..	..	..	1,844 18 11	3,403 16 9	882 9 8	6,493 11 5	
Grand Totals	487,980 8 5	618,827 11 5	26,643 11 3	33,720 0 0	..	200,808 15 11	9,598 1 8	55,186 8 7	556,906 13 4	4,411,634 4 8	

\* The Districts marked thus are those whose works will not produce sufficient revenue to cover the expense of maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure chargeable to the State Account". (By authority of Order in Council dated 6th March, 1963, under the provisions of Section 47, Water Act 1958, No. 6413.)



WATERWORKS DISTRICTS.

PROFIT AND LOSS ACCOUNTS FOR FINANCIAL YEAR 1962-63.

DISTRICT.	NET REVENUE ASSESSMENT.	EXPENDITURE.			PROFIT AND LOSS.			APPROPRIATION.			
								ACCUMULATED.			Gain as at 30th June, 1963.
								Interest and Other Losses before 1st July, 1938, Borne by State (Act. No. 6413, Sec. 54).	Loss Since 30th June, 1938.		
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.		
	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.		
BELLARINE PENINSULA	6,087 17 5	5,298 9 3	..	789 8 2	..	33 18 11	9,927 9 8	47,674 6 3	..		
MORNINGTON PENINSULA	35,051 6 4	46,525 7 5	1,324 17 9	12,798 18 10	..	(A) 1,011 5 5	1,077 12 3	..	45,271 1 9		
* OTWAY	46,187 11 10	55,899 11 8	726 0 4	10,438 0 2	..	(A) 128 8 0	..	49,495 15 9	..		
SUPPLIED FROM GOULBURN, CAMPASPE & LODDON SYSTEMS											
East Loddon	6,936 7 11	6,393 17 1	..	542 10 10	..	..	..	..	2,710 15 10		
* Normanville	10,563 14 5	10,725 2 1	..	2,216 10 6	..	(A) 12 6 0	..	8,580 11 4	..		
West Loddon	9,379 9 9	7,162 19 3	..	..	..	..	..	..	2,784 1 7		
System Totals	26,879 12 1	24,281 18 5	..	161 7 8	2,759 1 4	(A) 12 6 0	..	8,580 11 4	5,494 17 5		
SUPPLIED FROM RIVER MURRAY											
* Millewa	22,583 1 9	75,717 11 6	..	53,134 9 9	..	(A) 43 2 11	201,206 16 0	1,211,174 2 1	..		
* Tyntynder North	8,730 4 10	16,570 1 6	..	7,839 16 8	..	(A) 125 0 0	52,263 5 5	236,527 10 9	..		
System Totals	31,313 6 7	92,287 13 0	..	60,974 6 5	..	(A) 168 2 11	253,470 1 5	1,447,701 12 10	..		
SUPPLIED FROM WIMMERA-MALLEE SYSTEM											
* Mallee	86,267 3 4	129,357 10 9	..	43,090 7 5	..	(A) 4 6 2	134,716 12 7	741,237 5 11	..		
* Northern Mallee	66,461 3 4	129,357 10 9	..	79,369 7 8	..	(A) 211 8 11	248,435 14 4	1,892,983 5 11	..		
Upper Wimmera	61,134 17 2	129,357 10 9	..	..	1,929 0 10	(A) 52 13 11	12,589 11 7	59,808 14 11	..		
Wimmera	114,963 12 5	118,087 18 7	..	3,124 6 2	..	(A) 208 4 2	13,428 5 1	72,190 11 8	..		
System Totals	328,830 14 4	452,485 14 9	..	125,584 1 3	1,929 0 10	(A) 475 13 1	410,160 3 7	2,715,259 13 0	..		
MISCELLANEOUS											
Kerang-North West Lakes	1,935 4 4	2,049 13 1	..	114 8 9	..	(A) 7 3 7	831 10 5	..	1,209 6 2		
Werribee	469 10 6	362 15 1	..	..	106 15 5	..	2,221 10 10	1,424 3 10	..		
Miscellaneous Totals	2,404 14 10	2,412 8 2	..	114 8 9	106 15 5	(A) 7 3 7	3,053 1 3	1,424 3 10	1,209 6 2		
Grand Totals	476,755 3 5	679,191 2 8	2,050 18 1	210,071 3 1	5,584 5 9	(A) 1,769 0 1	677,688 8 2	4,270,136 3 0	51,975 5 4		

\* The Districts marked thus are those whose works will not produce sufficient revenue to cover the expense of maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure chargeable to the State Account". (By authority of Order in Council dated 6th March, 1963, under the provisions of Section 47, Water Act 1958, No. 6413.)

URBAN DISTRICTS.

CASH ACCOUNTS FOR FINANCIAL YEAR 1962-63.

DISTRICT.	RECEIPTS.	EXPENDITURE.				Excess Expenditure over Receipts 1962-63.	Excess Receipts over Expenditure 1962-63.	ACCUMULATED.		
		Operating Costs.	Interest.	Depreciation.	Redemption.			Surplus Credited to District Account at 30th June, 1963.	Deficiency Chargeable to District Account at 30th June, 1963.	Deficiency Chargeable to State Account at 30th June, 1963.
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
SUPPLIED FROM BELLARINE PENINSULA SYSTEM										
Amplesea	11,861 18 5	2,720 1 9	3,313 9 5	775 0 0	295 2 10	..	3,558 3 5	11,981 6 11	..	3,110 10 4
Barwon Heas-Ocean Grove	18,739 19 9	8,547 17 6	4,865 18 7	2,521 0 0	492 6 8	427 8 0	2,132 17 0	5,472 12 1	..	..
Barrowgore	2,223 10 9	1,416 15 3	1,059 3 6	185 0 0	..	..	..	108 16 7	..	..
Drysdale	4,437 0 10	2,014 11 0	1,012 3 3	383 0 0	85 2 6	..	942 2 3	2,362 0 10	..	440 6 6
Indented Head-St. Leonards	6,406 16 10	2,932 14 5	1,550 0 2	1,201 0 0	132 16 6	..	894 12 6	1,850 12 5	..	..
Leopold	2,089 12 8	7,671 1 0	2,442 19 7	1,148 0 0	211 5 8	..	837 12 6	1,850 12 5	..	..
Portarlington	8,269 1 1	3,670 14 11	2,442 19 7	1,148 0 0	211 5 8	1,128 14 4	701 8 0	5,561 3 3	..	6,532 3 8
Queenscliff-Pt. Lonsdale	18,711 15 1	8,574 14 4	5,251 15 1	2,041 0 0	235 17 4	..	2,073 2 5	4,489 13 1	..	1,755 7 7
Torquay	8,600 19 3	3,027 13 8	2,796 5 10	548 0 0	..	..	..	8,228 14 11	..	..
System Totals	77,430 14 9	34,897 1 8	22,591 15 9	9,053 0 0	1,379 4 8	1,556 2 4	11,065 15 0	41,078 1 9	..	11,809 8 1
SUPPLIED FROM KORMINGTON PENINSULA SYSTEM										
Berwick	9,437 13 4	5,120 3 6	1,977 15 6	1,291 0 0	164 12 10	..	924 1 6	656 19 2	..	1,556 7 3
Bittern-Crib Point	5,421 11 7	1,662 12 3	1,314 10 11	1,034 0 0	107 9 8	..	1,320 18 9	575 7 6	..	1,833 11 6
Bunyip	1,682 0 6	1,600 7 6	539 1 0	742 0 0	..	1,199 8 0	..	..	81 18 10	474 1 9
Curram Downs	2,182 4 8	833 14 8	659 3 6	512 0 0	55 0 0	..	15,192 4 7	1,400 5 2	..	..
Chelsea-Frankston	122,597 19 9	47,299 2 7	39,140 16 1	17,798 0 0	3,166 16 6	..	..	30,101 19 3	..	9,188 12 3
Crumbourne	4,450 6 0	2,243 16 4	1,185 13 8	885 0 0	135 16 0	..	..	1,600 9 0	..	538 9 1
Landenong-Springvale	47,660 11 11	18,998 5 7	18,392 4 10	5,896 0 0	3,038 17 2	..	1,345 4 4	61,349 14 1	..	3,631 18 7
Dromana-Portsea	126,912 7 4	40,954 8 1	38,697 14 6	34,800 0 0	7,223 6 8	..	5,236 18 1	21,097 12 6	..	602 8 1
Garfield	1,535 14 5	979 13 10	492 13 2	510 0 0	..	446 12 7	..	1,210 11 10	..	..
Hampton Park	2,447 7 4	1,418 18 7	979 13 10	630 0 0	..	..	398 8 9	398 8 9	..	972 14 8
Hastings	6,483 8 6	2,449 6 1	1,974 14 3	1,197 0 0	165 14 3	..	676 13 11	168 1 5	..	..
Longwarry	3,352 7 4	1,505 6 9	1,195 12 2	840 0 0	..	188 11 7	6,021 16 8	1,739 5 6	..	..
Nar Nar Goon-Tynong	56,474 8 8	18,374 14 0	19,835 10 7	9,409 0 0	2,453 7 5	..	495 2 5	8,789 5 6	..	..
Officer	2,021 7 3	852 4 10	700 11 4	374 0 0	58 10 7	..	182 4 10	5,381 17 8	..	..
Bakenham	1,865 6 3	2,970 1 8	2,970 1 8	1,443 0 0	9 19 3	821 11 1	..	5,381 17 8	..	..
Somerville	6,242 1 4	2,059 16 7	2,917 19 4	1,513 0 0	..	..	..	4,194 19 10	..	..
Frankston	61,220 13 2	15,354 13 5	16,180 11 6	8,733 0 0	1,329 18 2	..	19,480 10 1	41,502 8 4	..	..
Tyabb	2,417 17 2	882 7 11	933 19 3	622 0 0	..	20 10 0	..	933 0 0	..	..
System Totals	466,805 2 2	165,488 0 2	147,009 16 4	87,725 0 0	17,909 8 6	2,676 13 3	51,349 10 5	181,229 4 2	81 18 10	18,768 3 2

URBAN DISTRICTS-CASH ACCOUNTS-continued.

DISTRICT.	RECEIPTS.	EXPENDITURE.					Excess Receipts over Expenditure 1962-63.	Surplus Credited to District Account at 30th June, 1963.	ACCUMULATED.		
		Operating Costs.	Interest.	Depreciation.	Redemption.	Excess Expenditure over Receipts 1962-63.			Excess Chargeable to District Account at 30th June, 1963.	Deficiency Chargeable to State Account at 30th June, 1963.	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	
£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.
SUPPLIED FROM OTWAY SYSTEM											
* Allansford	4,632 3 1	4,513 16 5	735 1 4	560 0 0	913 18 9	1,176 14 8	537 19 11	..	373 4 3	2,270 7 0	
* Camperdown	20,866 10 10	12,189 4 1	4,811 17 10	1,563 0 0	382 19 1	..	44 4 1	442 14 7	1,747 14 9	..	
* Cobden	10,538 18 11	9,715 0 9	1,844 15 0	683 0 0	..	224 14 7	..	1,584 4 2	..	224 14 7	
* Terang	10,538 18 11	7,562 17 4	2,022 16 8	948 0 0	..	..	..	..	..	..	
System Totals	45,066 12 3	31,149 18 10	9,614 10 10	3,855 0 0	1,296 7 10	1,401 9 3	582 4 0	2,026 18 9	2,120 19 0	2,495 1 7	
SUPPLIED FROM GOULEURS, CAMPASPE & LODDON SYSTEMS											
* Corop	65 8 2	48 11 0	..	40 0 0	..	23 2 10	..	..	31 3 4	173 14 7	
* Dingle	252 16 4	147 6 3	..	110 0 0	..	4 10 2	..	..	138 3 5	838 14 3	
* Gunbower	1,398 11 2	455 10 7	432 15 11	153 0 0	36 2 1	..	321 2 7	812 10 8	..	..	
* Koondrook	2,902 4 11	1,688 7 11	..	210 0 0	..	..	1,003 17 0	2,304 11 10	..	4,491 2 11	
* Leitchville	1,455 12 2	1,049 15 5	218 8 2	191 0 0	..	3 11 5	..	1,384 5 2	..	389 9 9	
* Lockington	1,112 1 9	754 9 4	225 17 0	158 0 0	..	26 4 7	..	1,156 16 1	..	..	
* Macorna	197 9 6	154 13 2	..	54 0 0	..	11 5 8	..	171 12 3	423 3 7	134 12 11	
* Kiliamo	570 5 7	416 15 5	..	198 0 0	..	144 10 0	..	..	..	..	
* Kurrabit	1,616 12 9	1,051 10 5	369 16 5	115 0 0	30 0 8	432 17 8	156 11 9	2,187 10 6	497 8 3	2,638 10 5	
* Pyramid Hill	1,621 10 7	1,051 10 5	459 15 3	292 0 0	..	414 12 0	..	2,736 14 7	..	4,634 0 0	
* Stanhope	1,862 4 7	1,326 11 4	459 15 3	292 0 0	10 5 2	..	140 15 11	1,109 10 4	..	198 4 10	
* Tallygaropna	540 12 7	298 16 3	121 15 3	59 0 0	..	..	..	..	..	..	
System Totals	12,105 10 1	8,106 19 3	1,807 18 0	1,602 0 0	76 7 11	1,060 2 4	1,572 7 3	11,563 11 5	1,089 18 7	13,428 13 8	
SUPPLIED FROM RIVER MURRAY											
* Carwarp	47 18 0	41 16 9	..	8 0 0	..	1 18 9	..	..	284 0 3	381 9 3	
* Lake Boga	1,338 7 1	1,882 10 0	2 17 4	203 0 0	..	750 0 3	..	..	567 8 4	6,801 9 11	
* Merbein	6,272 18 10	4,103 16 1	1,004 9 10	623 0 0	80 14 3	..	460 18 8	5,217 14 1	..	510 10 1	
* Keringur	151 2 10	294 13 4	0 2 7	36 0 0	..	179 13 1	..	..	79 15 9	2,540 15 0	
* Nyah	978 12 9	985 0 3	..	99 0 0	..	165 7 6	..	..	657 9 7	812 12 0	
* Nyah West	2,183 14 7	1,583 17 0	273 5 5	177 0 0	79 5 11	..	90 6 3	..	637 2 1	1,558 5 6	
* Fingill	954 3 11	673 16 3	..	111 0 0	..	..	189 17 8	6,200 15 6	..	..	
* Red Cliffs	11,250 18 9	6,351 12 0	2,605 17 8	691 0 0	437 2 0	..	365 17 1	2,601 17 8	..	..	
* Robinvale	4,426 19 5	2,562 16 9	898 11 11	242 0 0	70 14 4	..	692 16 5	..	..	..	
* Werrimull	381 7 0	245 9 9	0 0 11	72 0 0	0 0 5	..	263 16 1	483 10 10	..	3,276 4 6	
System Totals	28,186 3 2	18,924 18 2	4,725 5 8	2,262 0 0	667 16 9	1,036 19 7	2,643 2 2	14,573 3 1	2,469 3 6	15,881 6 3	

URBAN DISTRICTS—CASH ACCOUNTS—continued.

DISTRICT.	RECEIPTS.		EXPENDITURE.				Excess Receipts over Expenditure 1962-63.	ACCUMULATED.		
	Operating Costs.	Interest.	Depreciation.	Redemption.	Excess Expenditure over Receipts 1962-63.	Surplus Credited to District Account at 30th June, 1963.		Deficiency Chargeable to District Account at 30th June, 1963.	Deficiency State Account at 30th June, 1963.	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
SUPPLIED FROM WINSTON-SALEE SYSTEM.										
Antwerp	129 17 6	125 13 2	11 14 2	14 0 0	..	21 9 10	120 2 9	46 15 6	24 4 3	119 12 8
Berriwillock	912 16 2	650 12 11	89 17 8	37 0 0	15 2 10	..	..	662 3 0	..	386 13 0
Beulah	1,787 5 4	1,657 16 11	290 14 5	109 0 0	46 12 0	..	613 4 7	2,087 1 2	..	4,380 19 8
Birchip	4,220 2 11	2,937 16 11	555 7 5	127 0 0	..	367 6 5	..	..	1,064 3 2	7,920 11 4
Brim	590 12 3	892 10 0	15 8 8	50 0 0	..	145 3 1	..	..	981 11 4	777 8 2
Chillingollah	121 1 3	161 10 11	86 13 5	16 0 0	..	35 8 8	..	..	36 6 9	2,130 1 6
Chinkapook	249 13 8	253 2 4	..	32 0 0	..	..	117 1 6	598 19 10	376 0 9	..
Culgoa	894 3 9	599 18 10	206 11 3	46 0 0	14 12 2	..	916 14 2	..	..	..
Diaboola	6,846 17 1	4,621 2 3	891 12 10	376 0 0	121 7 10	..	78 16 11	155 7 5	..	234 7 5
Doon	178 5 0	53 6 9	20 11 6	22 0 0	3 9 10	..	537 9 5	1,812 9 10	..	1,565 5 7
Hopetoun	4,483 5 0	3,591 2 1	958 19 2	160 0 0	37 13 8	..	..	..	..	..
Jeparit	2,941 16 6	1,690 6 6	526 6 11	158 0 0	1 13 9	..	53 8 1	..	..	..
Jung Jung	449 11 6	828 6 1	0 1 0	69 0 0	16 12 2	..	..	..	425 3 7	5,382 5 7
Lalbert	619 13 10	464 1 3	0 9 11	96 0 0	37 18 1	..	..	..	456 18 2	1,716 12 9
Lancelles	1,776 13 9	1,742 2 1	77 9 8	82 0 0	33 2 8	..	..	..	215 19 6	1,537 13 9
Manamantung	1,574 4 2	1,589 14 5	97 9 8	93 0 0	..	51 16 3	..	..	1,896 13 2	2,271 12 3
Karnoo	3,188 19 10	2,187 11 2	431 9 0	189 0 0	..	..	..	80 4 9	76 19 7	16 15 7
Kinyip	1,444 7 1	2,138 9 0	0 1 11	36 0 0	..	..	347 17 0	78 3 11	..	886 19 4
Kindaly	1,645 19 0	977 7 2	226 19 2	90 0 0	27 19 6	..	69 15 10	..	764 3 8	121 1 10
Kilmealy	1,425 19 3	371 7 7	12 11 7	40 0 0	..	99 19 11	323 17 2	..	157 17 2	711 17 2
Killaw	6,938 10 8	5,804 9 4	598 16 11	590 0 0	5 4 5	..	..	..	2,013 7 10	1,478 15 8
Quenn	6,465 8 6	928 12 6	0 0 11	66 0 0	..	529 4 11	..	..	815 0 2	1,947 8 11
Patchewollock	214 2 0	194 4 6	..	52 0 0	..	32 2 6	..	..	119 10 3	134 1 5
Pimpino	1,978 0 11	1,185 17 7	242 15 2	130 0 0	20 6 11	..	399 1 3	739 19 5	..	203 8 11
Quambatook	2,665 6 5	2,221 18 2	551 16 4	230 0 0	..	138 8 1	..	2,352 7 6	..	..
Rainbow	2,463 4 5	1,561 15 3	505 13 6	189 0 0	37 16 6	..	168 19 2	1,151 12 9	534 4 1	1,285 8 8
Rupanyup	3,787 5 5	2,288 15 0	959 3 3	180 0 0	78 15 3	..	280 11 11	2,237 14 9	267 2 0	1,944 12 1
Sea Lake	433 1 8	548 5 9	0 0 6	78 0 0	..	193 4 7	..	..	927 15 3	1,854 4 10
Speed	280 13 8	774 12 0	0 10 3	78 0 0	..	532 2 7	..	..	24 15 6	2,589 10 2
Tempy	1,078 8 3	919 5 4	0 10 0	72 0 0	0 3 8	..	86 9 3	..	1,752 1 3	1,544 8 6
Ultima	45 16 0	56 1 10	..	27 0 0	..	37 5 10	..	..	379 15 0	1,171 19 8
Waitechie	573 10 1	752 7 3	0 14 7	45 0 0	..	224 11 9	..	..	..	234 12 1
Walpeup	817 16 3	726 8 5	5 15 3	85 0 0	0 12 7	..	..	..	..	1,709 7 0
Watchem	1,521 7 4	797 16 4	280 1 6	131 0 0	78 0 4	..	234 9 2	997 3 4	219 4 8	1,729 16 7
Woomelang	1,121 11 0	690 17 4	27 2 7	48 0 0	10 15 3	..	344 13 10	..	..	..
Woorinen	4,245 6 3	2,794 12 11	939 18 2	252 0 0	79 5 4	..	179 9 10	2,433 2 9	..	..
Wycheproof	231 10 6	323 8 6	0 2 3	72 0 0	..	164 0 3	..	..	..	..
Yaspeet										
System Totals	61,952 16 8	47,195 8 1	8,613 19 8	4,251 0 0	637 7 1	3,517 2 0	4,772 3 10	15,781 17 10	14,100 2 3	48,316 17 4



URBAN DISTRICTS.  
PROFIT AND LOSS ACCOUNTS FOR FINANCIAL YEAR 1962-63.

DISTRICT.	1.	EXPENDITURE.		PROFIT AND LOSS.		APPROPRIATION.			
		NET REVENUE ASSESSMENT.		Excess Expenditure over Revenue 1962-63.	Excess Revenue over Expenditure 1962-63.	Adjustments to Revenue of Former Years Including Amounts Written Off: (A) Loss (B) Gain.	Interest and Other Losses before 1st July, 1938, Borne by State (Act. No. 6413, Sec. 34).	Loss Since 30th June, 1938.	Gain as at 30th June, 1963.
		£. s. d.	£. s. d.			£. s. d.	£. s. d.	£. s. d.	£. s. d.
SUPPLIED FROM BELLARINE PENINSULA SYSTEM	Anglesea	11,979 13 6	8,008 11 2	..	3,675 18 6	(A) 53 19 6 (B) 220 6 9	1,638 15 9	..	12,372 0 4
	Barwon Heads-Ocean Grove	17,248 16 4	15,624 16 1	618 16 0	611 13 7	(A) 220 6 9 (B) 24 19 0	..	..	8,387 6 3
	Birregurra	2,131 17 1	2,660 18 3	..	290 19 7	(A) 24 15 5 (B) 24 15 5	326 16 1	..	415 10 6
	Drysdale	7,188 15 2	7,403 14 5	..	1,610 11 6	(A) 1 4 0 (B) 1 4 0	..	..	3,601 0 3
	Indented Head-St.Leonards	1,189 15 18	1,212 14 5	..	729 14 6	(A) 84 6 6 (B) 274 0 4	..	..	1,610 11 6
	Leopold	7,273 18 18	7,552 7 6	95 12 3	..	(A) 274 0 4 (B) 279 3 0	1,724 12 7	..	2,000 0 9
	Portarlington	14,423 15 9	15,840 9 3	1,809 9 6	..	..	..	..	2,378 11 5
	Sevenscliff-Pt.Lonsdale	8,734 7 8	6,371 19 6	235 17 4	2,146 10 10	..	1,755 7 7	..	6,978 0 3
	Torquay	..	..	..	..	..	..	..	10,436 18 1
	System Totals	74,954 9 0	66,541 17 5	2,523 17 11	9,065 8 6	(B) 786 2 6	5,445 12 0	..	48,179 19 4
SUPPLIED FROM MORNINGTON PENINSULA SYSTEM	Berwick	9,522 12 1	9,388 19 0	..	969 0 3	(A) 0 3 9 (A) 9 5 6	..	132 17 4	272 9 11
	Bittern-Crib Point	5,588 5 7	4,011 3 2	1,098 7 2	1,469 12 9	(A) 6 18 0 (A) 1 5 0	474 1 9	..	247 4 8
	Punyip	1,628 10 2	2,881 8 6	..	14 15 3	(A) 1 5 0 (A) 3 15 2	..	..	1,636 16 7
	Carrum Downs	2,074 13 5	2,004 18 2	..	5,861 2 7	(A) 1 5 0 (A) 324 11 6	9,188 12 3	..	51,669 16 7
	Chelsea-Frankston	113,265 17 9	104,237 18 8	11 7 4	..	(A) 40 8 4 (B) 40 8 4	538 9 1	..	2,291 3 8
	Cranbourne	4,402 8 4	4,214 10 0	1,216 5 5	9,038 19 0	(A) 381 5 7 (B) 448 13 9	3,601 18 7	..	73,485 5 3
	Dandenong-Springvale	43,517 1 1	43,276 10 5	599 3 9	..	..	..	..	38,231 16 6
	Dromana-Portsea	126,744 13 0	114,552 7 0	..	553 11 3	(A) 3 15 2 (B) 283 8 6	..	..	1,041 8 11
	Garfield	1,424 10 9	3,382 18 7	..	927 4 6	(A) 4 7 0 (A) 4 7 0	..	..	1,553 11 3
	Hampton Park	2,402 13 10	5,628 10 4	..	4,766 19 1	(B) 283 8 6 (A) 4 7 0	..	..	759 3 7
	Hastings	3,123 13 1	3,240 15 11	301 13 3	..	..	..	..	1,572 8 4
	Longwarry	54,368 5 2	48,019 4 7	..	554 13 2	(A) 4 7 0 (A) 4 7 0	..	..	14,470 14 7
	Mornington	2,080 16 0	1,526 4 10	..	35 7 1	..	..	..	592 13 8
	Nar Nar Goon-Tynong	1,736 9 0	1,642 11 4	..	..	..	..	..	652 9 6
	Officer	5,922 13 2	7,063 12 5	1,469 10 11	..	..	..	..	5,062 7 6
	Rakennan	2,460 10 1	2,360 15 11	..	28 5 1	(A) 145 18 0	..	..	961 19 8
	Somersville	58,434 19 6	40,411 4 11	..	16,693 16 5	..	..	..	52,404 8 7
	South Frankston	2,352 1 8	2,438 7 2	164 6 3	..	..	..	..	988 11 10
	Tyabb	..	..	..	..	..	..	..	..
	System Totals	448,395 2 9	400,222 16 6	4,760 14 1	40,313 6 5	(A) 172 6 11 (A) 172 6 11	14,533 1 0	132 17 4	246,914 2 5

URBAN DISTRICTS-PROFIT AND LOSS ACCOUNTS--continued

DISTRICT.	EXPENDITURE.			PROFIT AND LOSS.		APPROPRIATION.				
	NET REVENUE ASSESSMENT.		Operating Cost, Interest and Depreciation.	Redemption Charged.	Excess Expenditure over Revenue 1962-63.	Excess Revenue over Expenditure 1962-63.	Adjustments to Revenue of Former Years Included in Written Off: (A) Loss (B) Gain.	Interest and Other Losses before 1st July, 1938, Borne by State (Act. No. 6413, Sec. 34).	Loss Since 30th June, 1938.	Gain as at 30th June, 1963.
	2.	3.								
1.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.
SUPPLIED FROM OTWAY SYSTEM										
Allansford	4,452 6 3	5,808 17 9	60 16 2	1,417 7 8	158 8 11	(B) 69 9 0	..	2,592 10 6	..	..
Camperdown	19,708 8 11	19,215 2 2	334 17 10	..	34 6 1	(A) 1 14 0	..	945 8 4	..	959 13 4
Cobden	9,004 12 4	8,831 15 9	138 10 6	..	..	(A) 21 11 5	..	..	..	1,930 13 3
Terang	10,463 0 3	10,733 14 0	152 17 0	423 10 9	..	..	..	..	..	..
System Totals	43,628 7 9	44,589 9 8	687 1 6	1,840 18 5	192 15 0	(B) 46 3 7	..	3,537 18 10	2,890 6 7	..
SUPPLIED FROM COULBURN, CAMPASPE & LODDON SYSTEMS										
Corop	47 4 7	88 11 0	..	41 6 5	..	..	62 8 1	31 14 7	..	..
Dingee	252 5 6	257 6 6	36 2 1	5 1 0	251 6 9	..	93 10 6	883 17 1	862 1 5	..
Gunbower	1,328 15 4	1,041 6 6	..	..	596 11 11	(A) 5 17 5	408 17 3	1,150 5 9	730 19 4	..
Koondrook	2,794 19 10	1,898 7 11	18 6 0	93 2 5	..	..	..	..	1,176 19 10	..
Leitchville	1,384 9 2	1,459 3 7	19 1 3	66 6 7	..	..	..	..	..	..
Lockington	1,091 0 0	1,138 6 4	..	15 13 5	..	..	..	..	..	..
Macorna	192 19 9	208 13 2	..	156 11 10	..	..	..	..	..	..
Mitiamo	637 13 9	814 5 7	..	434 13 8	..	..	..	..	..	..
Murrabit	214 16 9	649 10 5	..	..	..	..	..	..	..	..
Pyramid Hill	1,684 18 6	1,494 18 2	30 0 8	502 10 4	159 19 8	(B) 6 10 0	92 1 10	5,014 19 2	2,440 19 11	..
Stanhope	1,611 7 5	2,076 16 7	37 1 2	..	..	..	..	..	2,621 7 8	..
Tallygaroopna	498 15 0	389 11 6	10 5 2	..	98 18 4	..	..	..	1,154 3 6	..
System Totals	11,759 6 7	11,516 17 3	150 18 4	1,315 5 8	1,406 16 8	(B) 0 12 7	656 17 8	10,045 12 8	8,986 11 8	..
SUPPLIED FROM RIVER MURRAY										
Carwarp	83 9 1	49 16 9	..	48 3 10	33 12 4	(A) 2 1 1	558 14 5	5,892 0 11	386 19 1	..
Lake Boga	2,040 3 3	2,088 4 4	0 4 9	158 19 7	1,282 0 11	(A) 6 18 9	510 10 1	1,953 2 3	7,607 6 3	..
Kerriem	7,071 1 1	5,731 5 11	90 14 3	159 11 1	..	(A) 0 11 2	48 2 10	1,237 16 0	..	..
Meningar	1,171 16 7	1,321 10 13	0 0 3	..	..	(A) 18 13 0	..	1,301 15 6	..	..
Nyah	926 9 2	1,080 0 3	..	..	65 3 6	(A) 0 4 8	..	..	..	..
Nyah West	2,102 5 10	2,014 2 5	22 19 11	..	129 0 11	(A) 13 4 0	284 19 8	1,240 9 11	9,058 14 6	..
Piangil	913 7 2	764 6 3	219 1 9	..	2,054 14 3	..	..	..	4,239 12 7	..
Red Cliffs	12,122 5 8	9,848 9 8	70 14 4	..	674 15 1	(A) 41 12 8	1,402 7 0	11,734 19 7	21,482 12 5	..
Robinvale	4,408 18 1	3,663 8 6	0 0 3	..	411 8 0	..	..	..	..	..
Verrihill	728 18 11	317 10 8	..	..	..	..	..	..	..	..
System Totals	30,535 19 10	25,912 3 10	393 15 6	362 14 5	4,650 15 0	(A) 41 12 8	1,402 7 0	11,734 19 7	21,482 12 5	..

## URBAN DISTRICTS—PROFIT AND LOSS ACCOUNTS—continued.

DISTRICT.	NET REVENUE ASSESSMENT.	EXPENDITURE.		PROFIT AND LOSS.		APPROPRIATION.			
		Operating Cost, Interest and Depreciation.	Redemption Charged.	Excess Expenditure over Revenue 1962-63.	Excess Revenue over Expenditure 1962-63.	Adjustments to Revenue of Funds Including Amounts Written Off (A) Loss (B) Gain.	Interest and Other Losses before 1st July, 1938, Borne by State (Act. No. 6413, Sec. 54).	Loss Since 30th June, 1938.	Gain as at 30th June, 1963.
		£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.
I.	2.	3.	4.	5.	6.	7.	8.	9.	10.
SUPPLIED FROM MINNERA-MALLEE SYSTEM									
Antwerp	180 0 3	151 7 4	0 13 6	..	27 19 5	(B) 3 0 0	216 18 8	48 6 9	44 2 6
Berriwillock	830 7 10	777 10 7	7 13 5	122 14 5	45 5 10	(A) 3 14 9	96 18 2	..	846 10 10
Beulah	1,539 12 10	2,050 10 4	26 13 4	449 13 2	419 18 1	(B) 10 14 6	873 6 5	1,074 17 3	..
Birchip	4,046 18 7	3,580 18 8	46 18 7	61 3 9	..	(B) 0 3 0	3,897 6 11	..	..
Brim	213 5 2	286 4 4	7 4 11	62 4 10	..	(A) 2 16 0	218 18 1	1,819 5 7	29 0 10
Chillingollah	222 17 6	285 2 4	14 12 2	..	22 12 0	(A) 20 0 8	157 15 3	..	697 5 5
Chinapook	796 14 3	762 10 1	61 13 2	..	857 8 4	(B) 7 0 0	..	..	3,248 18 0
Daigoo	6,827 16 8	5,908 15 1	1 14 11	..	31 5 4	(A) 67 5 11	130 4 9	..	56 4 9
Doodoola	1,228 18 6	1,395 18 3	80 11 3	..	2 17 7	(A) 57 5 11	560 2 10	..	1,042 11 2
Doonoon	4,793 10 0	4,710 1 3	37 13 8	..	339 19 11	(A) 16 1 9	..	..	2,134 19 3
Hopetoun	2,744 7 0	2,566 13 5	37 13 8	..	..	(A) 8 0 0	540 2 11	5,113 17 8	..
Jeparit	407 19 2	897 7 1	0 0 1	489 8 0	..	(B) 1 0 0	43 8 7	2,001 7 9	..
Jung Jung	554 3 9	564 12 0	0 6 9	10 15 0	..	(A) 8 0 0	411 15 11	925 2 5	..
Laibert	584 19 10	628 12 0	0 1 2	43 13 4	..	(B) 1 0 0	..	4,047 6 2	155 10 0
Lancelles	1,491 15 6	1,577 12 4	4 6 6	90 3 4	..	..	..	..	231 11 8
Manangatang	708 5 5	702 6 1	6 5 2	0 5 10	418 8 2	..	..	..	..
Marnoo	3,259 11 0	2,808 0 2	33 2 8	..	0 10 5	..	..	781 8 1	..
Minyip	275 1 6	274 10 11	0 0 2	..	173 11 10	(A) 3 14 6	..	407 9 11	..
Nandaly	1,481 13 11	1,294 2 4	13 19 9	131 3 0	..	(A) 4 0 8	..	869 8 8	..
Natimuk	295 12 0	425 19 2	0 15 10	900 8 0	..	(A) 315 11 10	..	2,398 18 2	..
Nullawil	6,143 5 8	6,993 6 3	50 7 5	400 11 1	..	..	..	1,636 14 1	..
Ouyen	594 2 5	994 13 5	0 0 1	..	54 14 11	(B) 2 0 0	..	71 11 7	..
Patchewollock	300 19 5	246 4 6	..	..	282 12 11	..	..	..	446 19 0
Pimpinio	1,861 2 7	1,586 12 9	20 5 11	..	157 14 2	..	..	..	3,351 8 4
Quambatook	3,124 10 9	3,003 14 6	37 12 1	..	228 2 7	(A) 54 4 0	..	..	1,307 3 6
Rainbow	2,411 13 4	2,426 18 9	37 18 6	..	..	..	..	2,211 11 10	..
Rupanyup	3,734 16 1	3,457 18 3	78 13 7	..	..	..	..	1,890 8 4	..
Sea Lake	986 8 3	853 2 2	0 0 11	237 18 2	..	(A) 8 10 11	498 8 2	2,853 2 11	..
Speed	915 15 3	931 15 4	0 0 11	497 10 11	..	..	..	2,239 15 2	..
Tempy	347 10 2	331 10 10	0 0 11	36 1 1	..	(A) 1 1 2	140 17 2	3,090 2 1	..
Ultima	47 0 2	83 1 10	0 1 6	300 8 10	..	(B) 119 13 0	805 1 5	352 4 0	916 17 9
Waitechie	497 14 6	798 1 10	0 8 0	68 6 3	96 3 0	(A) 11 0 4	..	..	..
Walpeup	749 5 5	817 3 8	23 12 6	..	122 7 1	(A) 28 4 9	..	..	1,211 14 1
Watchem	1,328 13 4	1,208 17 10	79 5 4	..	192 17 1	..	..	1,885 3 9	..
Woodward	689 17 9	765 19 11	1 10 9	..	..	..	..	..	..
Wycheproof	4,258 13 6	3,986 11 1	0 0 4	130 4 9	..	..	..	..	..
Yaapeet	265 6 4	395 10 9	..	..	..	..	..	..	..
System Totals	60,137 7 5	60,060 7 9	672 3 8	4,112 10 9	3,517 6 9	(A) 390 1 1	4,713 18 4	40,091 9 7	17,409 1 10



URBAN DISTRICTS—PROFIT AND LOSS ACCOUNTS—continued.

DISTRICT.	EXPENDITURE.			PROFIT AND LOSS.			APPROPRIATION.			
	NET REVENUE ASSESSMENT.	Operating Cost, Interest and Depreciation.	Redemption Charged.	Excess Expenditure over Revenue 1962-63.	Excess Revenue over Expenditure 1962-63.	Adjustments to Revenue of Former Years Including Amounts Written Off. (A) Loss (B) Gain.	Interest and Other Losses before 1st July, 1938, Borne by State (Act. No. 6413, Sec. 54).	ACCUMULATED.		
								Loss Since 30th June, 1938.	8.	9.
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	
	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	
MISCELLANEOUS										
Eildon	6,378 4 6	5,934 6 3	182 10 0	..	261 8 3	(A) 16 6 5	160 19 2	..	2,906 13 2	
Heyfield	8,606 19 2	7,837 11 7	120 0 0	..	649 7 7	(A) 16 6 5	160 19 2	..	1,642 13 6	
Newstead	2,403 13 10	3,424 4 9	4 11 1	1,025 2 0	..	(A) 263 19 4	..	15,739 17 6	..	
Monthaggi	15,552 9 5	15,767 0 9	267 0 8	..	518 8 0	(A) 263 19 4	..	3,174 10 2	..	
Miscellaneous Totals	33,941 6 11	32,963 3 4	574 1 9	1,025 2 0	1,429 3 10	(A) 280 5 9	160 19 2	18,914 7 8	4,549 6 8	
Grand Totals	703,410 0 3	641,806 15 9	16,368 15 8	15,941 3 4	61,175 12 2	(A) 51 7 9	27,012 15 2	84,457 5 8	350,412 0 11	

\* The Districts marked thus are those whose works will not produce sufficient revenue to cover the expense of maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure chargeable to the State Account". (By authority of Order in Council dated 6th March, 1963, under the provisions of Section 47, Water Act 1958, No. 6413.)





SUMMARY OF CASH ACCOUNTS, 1962-63.

DISTRICTS.	RECEIPTS.				EXPENDITURE.				O.I.C. Subsidy Charged to Expenditure Borne by State Account.		Result of Operations, 1962-1963.		Amount Transferred to Irrigation Districts Maintenance Equalization and Renewals Account.		Accumulated to 30th June, 1963.		
	2.				3.				7.		8.		10.		11. 12. 13.		
	£.	s.	d.		£.	s.	d.	£.	s.	d.	£.	s.	d.	£.	s.	d.	£.
Plant Workshops	53,388	16	8		36,305	13	0	564	13	8	2,672	0	0	104	19	2	
Coliban	230,932	2	2		190,051	2	1	13,861	1	2	25,848	0	0	4,746	7	9	
Irrigation-Pumping	314,907	16	1		359,195	18	11										
Gravitation	1,578,551	5	3		1,280,149	2	3	5,685	15	0				475	0	0	
Waterworks	487,980	8	5		618,827	11	5	26,643	11	3	33,720	0	0				
Urban	727,003	0	0		327,266	4	5	201,301	11	4	113,239	0	0	22,629	8	11	
Flood Protection	42,953	12	8		35,894	16	7				3,136	0	0				
Drainage	25,473	19	2		16,653	8	1	5,702	4	3	722	0	0	476	9	10	
Totals	3,461,191	0	5		2,864,243	16	9	253,758	16	8	179,337	0	0	28,432	5	8	
DISTRICTS WHICH WERE REQUIRED TO MEET ALL ANNUAL OPERATING COSTS																	
Plant Workshops	53,488	16	8		36,305	13	0	564	13	8	2,672	0	0	104	19	2	
Coliban																	
Irrigation-Pumping	273,429	7	7		300,334	16	5										
Gravitation	1,578,551	5	3		1,280,149	2	3	5,685	15	0				475	0	0	
Waterworks	241,249	1	2		213,627	3	10	16,380	12	4	14,879	0	0				
Urban	697,071	6	5		297,669	8	10	198,057	19	1	109,713	0	0	22,610	18	9	
Flood Protection	42,953	12	8		35,894	16	7				3,136	0	0				
Drainage	25,473	19	2		16,653	8	1	5,702	4	3	722	0	0	476	9	10	
Totals	2,912,117	8	11		2,180,614	9	0	226,591	4	4	131,122	0	0	23,667	7	9	
DISTRICTS SUBSIDIZED OR SUPPLIED BY DIRECTION OF GOVERNOR IN COUNCIL																	
Plant Workshops	230,932	2	2		190,051	2	1	13,861	1	2	25,848	0	0	4,746	7	9	
Coliban																	
Irrigation-Pumping	41,478	8	6		58,861	2	6										
Gravitation	246,731	7	3		405,200	7	7	10,062	18	11	18,841	0	0				
Waterworks	29,951	13	7		24,616	15	7	3,243	12	3	3,526	0	0	18	10	2	
Urban																	
Flood Protection																	
Drainage																	
Totals	549,073	11	6		683,729	7	9	27,167	12	4	48,215	0	0	4,764	17	11	

SUMMARY OF PROFIT AND LOSS ACCOUNTS, 1962-63.

DISTRICT.	EXPENDITURE.				Result of Operations, 1962-63.			APPROPRIATION.				
	NET REVENUE ASSESSMENT.		Operating Costs, Interest, and Depreciation.	Redemption Charged.	O.I.C. Subsidy Chargeable to Expenditure Borne by State Account.	Loss.	Gain.	Amount Transferred to Irrigation Districts for Maintenance, Equalization and Renewals Account.	Adjustments to Revenue of Former Years (A) Loss. (B) Gain.	Accumulated as at 30th June, 1963.		
	£. s. d.	£. s. d.								£. s. d.	£. s. d.	£. s. d.
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	
Plant Workshops												
Coliban												
Irrigation-												
Pumping												
Gravitation												
Waterworks												
Urban												
Flood Protection												
Drainage												
Totals												
DISTRICTS WHICH WERE REQUIRED TO MEET ALL ANNUAL OPERATING COSTS												
Plant Workshops												
Coliban												
Irrigation-												
Pumping												
Gravitation												
Waterworks												
Urban												
Flood Protection												
Drainage												
Totals												
DISTRICTS SUBSIDIZED OR SUPPLIED BY DIRECTION OF GOVERNOR IN COUNCIL												
Plant Workshops												
Coliban												
Irrigation-												
Pumping												
Gravitation												
Waterworks												
Urban												
Flood Protection												
Drainage												
Totals												

HILDON SEWERAGE DISTRICT.  
CASH ACCOUNT FOR FINANCIAL YEAR 1962-63.

RECEIPTS.	EXPENDITURE.				ACCUMULATED.		
	Operating Costs.	Interest.	Depreciation.	Redemption.	Excess Expenditure over Receipts 1962-63.	Excess Receipts over Expenditure 1962-63.	Surplus Credited to District Account at 30th June, 1963.
1.	2.	3.	4.	5.	6.	7.	8.
£. s. d. 8,095 15 4	£. s. d. 4,108 10 1	£. s. d. 2,193 12 7	£. s. d. 998 0 0	£. s. d. 439 15 5	£. s. d. 355 17 3	£. s. d. 669 2 11	£. s. d. ..
							10.

PROFIT AND LOSS ACCOUNT FOR FINANCIAL YEAR 1962-63.

NET REVENUE ASSESSMENT.	EXPENDITURE.		PROFIT & LOSS.		APPROPRIATION.		
	Operating Costs, Interest, and Depreciation.	Redemption Charged.	Excess Expenditure over Revenue 1962-63.	Excess Revenue over Expenditure 1962-63.	Adjustments to Revenue of Former Years Including Amounts Written Off (A) Loss. (B) Gain.	Interest and Other Losses before 1st July, 1938, Borne by State (Act No. 6413, Sec. 54).	Loss since 30th June, 1938.
1.	2.	3.	4.	5.	6.	7.	8.
£. s. d. 7,863 18 9	£. s. d. 7,300 2 8	£. s. d. 439 15 5	£. s. d. 124 0 8	£. s. d. ..	£. s. d. ..	£. s. d. ..	£. s. d. 584 8 1
							9.

BALANCE-SHEET AS AT 30TH JUNE, 1963.

LIABILITIES.				ASSETS.			
Capital See Capital Accounts for Details.	Redemption Account.	Depreciation Reserve Account.	Sundry Creditors.	Cash Account DEFICIENCY.	Profit and Loss Account. GAIN.	Works at Cost.	Depreciation Account.
1.	2.	3.	4.	5.	6.	7.	8.
£. s. d. 101,350 4 9	£. s. d. 2,449 15 3	£. s. d. 5,245 16 4	£. s. d. ..	£. s. d. 669 2 11	£. s. d. ..	£. s. d. 107,800 0 0	£. s. d. 5,245 16 4
							9.
							10.
							11.

BALANCE-SHEETS AS AT 30TH JUNE, 1963.

DISTRICT.	LIABILITIES.						ASSETS.					
	Capital. See Capital Accounts for Details.	Redemption Account.	Depreciation Reserve Account.	Sundry Creditors.	Cash Account. DEFICIENCY.	Profit and Loss Account. GAIN.	Works at Cost.	Depreciation Account.	Sundry Debtors.	Cash Account SURPLUS.	Profit and Loss Account. LOSS.	
	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	
1.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	
PLANT WORKSHOPS.												
Sendigo	251,902 3 11	695 13 10	33,029 17 1	..	4,636 8 10	3,206 3 0	252,597 17 9	33,029 17 1	7,842 11 10	..	..	
Kerang Sub-Depot	17,326 15 9	45 10 10	2,166 8 1	..	..	15 9 1	17,372 6 7	2,166 8 1	..	15 9 1	..	
Tatura Sub-Depot	2,595 18 1	..	319 7 10	..	..	26 0 10	2,595 18 1	319 7 10	..	26 0 10	..	
Totals	271,824 17 9	741 4 8	35,515 13 0	..	4,636 8 10	3,247 12 11	272,566 2 5	35,515 13 0	7,842 11 10	41 9 11	..	

COLIBAN SYSTEM.

• Axe Creek	5,087 8 2	..	..	55 15 9	7,516 16 4	..	5,087 8 2	..	230 13 8	..	7,341 18 5
• Coliban	4,250,840 3 10	19,471 12 3	108,789 10 8	1,202 19 2	1,372,783 8 9	..	4,255,586 11 7	108,789 10 8	40,465 5 7	..	1,348,246 6 10
• Elphinstone	7,224 2 8	..	890 14 5	..	270 5 4	..	7,224 2 8	890 14 5	37 1 8	..	233 3 8
• Harcourt	17,658 14 5	232 18 6	487 5 8	268 3 2	12,243 8 7	..	17,691 12 11	487 5 8	120 6 6	..	12,391 5 3
• Marong	4,712 4 2	15 18 6	1,263 13 9	10 5 6	1,840 15 10	..	4,727 13 6	1,263 13 9	266 10 9	..	1,584 19 9
Totals	4,285,522 13 3	19,720 9 3	111,431 4 6	1,537 3 7	1,394,654 14 10	..	4,290,517 8 10	111,431 4 6	41,119 18 2	..	1,369,797 13 11

• The Districts marked thus are those whose works will not produce sufficient revenue to cover the expense of maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The 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 6th March, 1963, under the provisions of Section 47, Water Act 1958, No. 6413.)

**IRRIGATION DISTRICTS.**  
**BALANCE-SHEETS AS AT 30TH JUNE, 1963.**

DISTRICT.	LIABILITIES.						ASSETS.				
	Capital Accounts for Details.	Redemption Account.	Irrigation Districts Maintenance Equalization and Renewals Reserve Account.	Sundry Creditors.	Cash Account. DEFICIENCY.	Profit and Loss. Account. GAIN.	Works at Cost.	Irrigation Districts Maintenance Equalization and Renewals Account.	Sundry Debtors.	Cash Account. SURPLUS.	Profit and Loss. Account. LOSS.
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.
Bacchus Marsh	669,641 10 8	1,918 9 4	9,582 8 9	5,001 7 7	12,268 18 11	..	671,560 0 0	9,582 8 9	567 13 8	..	16,702 12 10
Campaspe	88,920 12 7	..	823 13 7	21 12 8	4,860 14 9	..	88,920 12 7	823 13 7	350 10 10	..	4,531 16 7
Goulburn-Murray	58,750,579 3 4	22,179 13 5	44,007 18 10	3,066 10 3	471,532 1 10	..	58,812,758 16 9	44,007 18 10	229,371 4 5	..	245,227 7 8
Macalister	6,277,744 10 1	2,447 15 0	34,010 17 10	36 8 2	..	50,895 6 6	6,280,192 5 1	34,010 17 10	15,892 18 0	35,038 16 8	..
Merbein	582,708 18 10	..	771 19 4	4	137,033 19 6	..	582,708 18 10	771 19 4	26,323 14 1	..	110,770 5 9
Nyah	320,785 12 9	54 19 10	711 4 5	53 7 10	130,443 1 3	..	320,840 12 7	711 4 5	12,678 6 10	..	117,818 2 3
Red Cliffs	1,308,673 17 8	..	2,719 11 8	37 10 6	294,181 16 0	..	1,308,673 17 8	2,719 11 8	29,856 6 2	..	264,363 0 4
Robinvale	1,446,314 10 3	..	16,164 11 11	72 18 2	118,339 0 4	..	1,446,314 10 3	16,164 11 11	7,290 18 2	..	111,121 0 4
Tresco	209,741 17 1	..	323 10 1	0 2 0	186,441 11 5	..	209,741 17 1	323 10 1	6,449 13 3	..	179,992 0 2
Werrimbee	436,689 7 6	1,491 5 10	8,364 15 0	0 10 0	49,286 16 2	..	438,180 13 4	8,364 15 0	1,425 11 7	..	47,861 14 7
<b>Totals</b>	<b>70,131,800 0 9</b>	<b>28,092 3 5</b>	<b>117,480 11 5</b>	<b>8,290 7 6</b>	<b>1,404,448 0 2</b>	<b>50,895 6 6</b>	<b>70,159,892 4 2</b>	<b>117,480 11 5</b>	<b>330,206 17 0</b>	<b>35,038 16 8</b>	<b>1,098,388 0 6</b>



WATERWORKS DISTRICTS.

BALANCE-SHEETS AS AT 30TH JUNE, 1963.

DISTRICT.	LIABILITIES.						ASSETS.				
	Capital. See Capital Accounts for Details.	Redemption Account.	Depreciation Reserve Account.	Sundry Creditors.	Cash Account. DEFICIENCY.	Profit and Loss Account. GAIN.	Works at Cost.	Depreciation Account	Sundry Debtors.	Cash Account SURPLUS.	Profit and Loss Account. LOSS.
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.
BELLAIRINE PENINSULA	83,359 16 5	3,801 8 10	Or. 10,203 1 9	32 3 6	59,436 17 3	..	87,161 5 3	Or. 10,203 1 9	1,867 4 10	..	57,601 15 11
MORNINGTON PENINSULA	728,238 14 8	12,663 3 7	58,009 11 4	9 16 6	..	44,193 9 6	736,927 5 0	58,009 11 4	5,898 14 10	47,319 4 5	..
* OTWAY	584,760 3 3	9,479 12 11	81,526 16 9	26 8 0	46,951 6 1	..	589,975 13 6	81,526 16 9	1,746 1 0	..	49,495 15 9
SUPPLIED FROM GOULBURN, CAMPASPE & LODDON SYSTEMS											
East Loddon	19,003 7 1	7,502 6 7	594 19 6	1 1 5	8,593 16 7	2,710 15 10	26,605 13 8	594 19 6	569 16 6	2,142 0 9	8,580 11 4
* Romarville	61,576 6 4	7,222 1 11	5,627 11 10	2 1 0	..	2,784 1 7	61,798 8 3	5,627 11 10	14 16 3	..	..
West Loddon	19,577 16 6	3,764 7 3	1,135 16 11	3 2 8	..	..	23,342 3 9	1,135 16 11	..	2,787 4 3	..
System Totals	100,157 9 11	11,588 15 9	7,358 8 3	6 5 1	8,593 6 7	5,494 17 5	111,746 5 8	7,358 8 3	584 12 9	4,929 5 0	8,580 11 4
SUPPLIED FROM RIVER MURRAY											
* Millewa	741,126 17 7	..	76,503 4 10	2,361 1 6	1,410,584 11 1	..	741,126 17 7	76,503 4 10	564 14 6	..	1,412,380 18 1
* Tyndyler North	237,981 17 8	..	2,136 12 5	427 7 6	288,903 17 6	..	237,981 17 8	2,136 12 5	540 8 10	..	288,799 16 2
System Totals	979,108 15 3	..	78,639 17 3	2,788 9 0	1,699,488 8 7	..	979,108 15 3	78,639 17 3	1,105 3 4	..	1,701,171 14 3
SUPPLIED FROM WINNERS-MALLEE SYSTEM											
* Mallee	1,863,329 8 4	1,144 3 0	6,050 18 9	99 17 1	877,127 19 9	..	1,864,473 11 4	6,050 18 9	1,273 18 4	..	875,953 18 6
* Northern Mallee	2,268,624 6 3	..	15,856 6 0	64 4 10	2,084,712 16 5	..	2,268,624 6 3	15,856 6 0	4,168 6 5	..	2,080,608 14 10
* Upper Murrumbidgee	834,972 17 7	1,416 17 2	83,655 12 4	9 10 8	83,752 10 6	..	836,389 14 9	83,655 12 4	523 14 8	..	83,238 6 6
* Wimmera	2,026,512 4 4	1,246 7 4	25,781 18 2	37 6 0	96,567 9 4	..	2,027,758 11 8	25,781 18 2	10,985 18 7	..	85,638 16 9
System Totals	6,993,438 16 6	3,807 7 6	48,374 15 3	210 18 7	2,142,160 16 0	..	6,997,246 4 0	48,374 15 3	16,951 18 0	..	3,135,419 16 7
MISCELLANEOUS											
Kangaroo North West Lakes	6,945 19 9	..	272 1 8	99 11 4	334 5 3	377 15 9	6,945 19 9	272 1 8	811 12 4	..	3,645 14 8
Terribee	12,863 15 7	82 12 10	19 6 11	7 15 7	3,637 19 1	..	12,946 6 5	19 6 11	..	..	..
Miscellaneous Totals	19,813 13 4	82 12 10	291 8 7	107 6 11	3,972 4 4	377 15 9	19,896 6 2	291 8 7	811 12 4	..	3,645 14 8
Grand Totals	9,488,877 9 4	41,423 1 5	263,937 15 8	3,181 7 7	4,960,602 18 10	50,066 2 8	9,522,061 14 10	263,937 15 8	28,925 7 1	47,248 9 5	4,945,915 8 6

\* The Districts marked thus are those whose works will not produce sufficient revenue to cover the expense of maintenance and management thereof, and where water supplies are being certified 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 6th March, 1963, under the provisions of Section 47, Water Act 1958, No. 6413.)

URBAN DISTRICTS.

BALANCE-SHEETS AS AT 30TH JUNE, 1963.

DISTRICT.	LIABILITIES.						ASSETS.					
	Capital. See Capital Accounts for Details.	Redemption Account.	Depreciation Reserve Account.	Sundry Creditors.	Cash Account. DEFICIENCY.	Profit and Loss Account. GAIN.	Works at Cost.	Depreciation Account.	Sundry Debtors.	Cash Account SURPLUS.	Profit and Loss Account. LOSS.	
I.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	
£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	
SUPPLIED FROM BELLARINE PENINSULA SYSTEM												
Anlerea	130,230 18 0	1,256 6 3	4,726 15 1	29 12 5	..	10,733 4 7	131,487 4 2	4,726 15 1	1,892 0 5	8,970 16 7	..	
Barwon Heads-Ocean Grove	175,875 17 2	2,605 4 4	8,670 12 8	11 0 6	..	8,387 6 3	178,482 1 6	8,670 12 8	2,925 14 8	5,472 12 1	..	
Birregurra	35,670 7 9	369 14 11	2,094 19 3	8 7 2	..	3,415 10 6	35,971 2 4	2,094 19 3	404 1 5	108 16 7	..	
Brinsdale	36,259 2 11	334 18 3	4,417 3 9	19 12 0	..	3,274 4 2	36,654 1 2	4,417 3 9	1,172 1 10	2,111 14 4	..	
Imberted Head-St. Leonards	132,632 17 9	112 10 0	1,282 0 4	4 18 6	..	1,610 11 6	132,935 7 9	1,282 0 4	764 17 7	1,890 12 5	..	
Leonold	15,204 4 5	60 4 3	1,280 4 4	0 5 2	938 0 5	2,000 0 9	15,264 8 8	1,280 4 4	179 4 4	1,831 1 8	..	
Fortarlington	90,626 16 9	476 4 1	10,480 6 0	30 9 6	..	635 18 19	91,103 0 10	10,480 6 0	1,622 8 9	4,489 13 1	..	
Queenclyiff-Pt.Lionsdale	171,205 9 0	3,090 12 11	13,201 14 5	41 3 1	..	6,978 0 2	173,230 8 7	13,201 14 5	3,555 3 7	6,471 7 4	..	
Torquay	95,666 3 9	1,374 9 9	5,164 15 0	1 7 0	..	8,661 10 6	97,040 13 6	5,164 15 0	2,211 10 2	..	..	
System Totals	883,562 17 6	9,720 4 9	50,318 10 6	146 15 5	338 0 5	42,734 7 4	892,168 8 7	50,318 10 6	14,727 2 9	30,206 14 1	..	
SUPPLIED FROM MORNINGTON PENINSULA SYSTEM												
Baxter-Pearcedale	41,082 10 0	1,192 11 5	8,031 4 0	0 10 0	899 8 1	..	41,082 10 0	8,031 4 0	767 0 9	..	132 17 4	
Berrick	121,337 8 11	467 11 10	5,473 4 5	0 8 0	1,258 4 0	272 9 11	122,530 0 4	5,473 4 5	1,531 1 11	..	226 17 1	
Bittern-Crib Point	93,918 8 6	390 15 4	2,667 7 3	..	556 0 7	..	94,306 0 4	2,667 7 3	236 3 2	..	..	
Burbin	64,537 10 3	62 10 0	669 18 6	..	..	1,636 8 5	64,606 15 6	669 18 6	510 13 7	1,400 5 2	..	
Carraun Downs	53,675 13 2	27,893 14 10	129,496 3 11	68 13 3	..	4,481 4 4	1,756,854 2 1	129,496 3 11	21,636 15 7	20,913 7 0	..	
Chelsea	1,728,960 7 3	527 6 2	2,913 18 1	..	..	1,752 14 7	1,756,854 2 1	2,913 18 1	11,955 10 2	1,061 19 11	..	
Cranbourne	89,187 1 1	23,510 11 2	64,660 5 0	19 13 0	..	69,893 6 8	89,187 1 1	64,660 5 0	732 8 8	57,947 15 6	..	
Dandenong-Springvale	468,649 12 2	26,868 17 9	166,609 2 11	150 4 11	..	36,231 16 6	468,649 12 2	166,609 2 11	17,284 8 11	21,037 12 6	..	
Dromana-Fortsea	3,146,747 15 1	261 2 6	1,331 14 9	..	..	560 3 4	3,146,747 15 1	1,331 14 9	205 15 0	608 3 9	..	
Garfield	44,671 1 11	281 2 6	5,862 9 4	2 9 0	804 13 3	553 11 3	44,798 9 0	5,862 9 4	1,115 3 3	1,739 5 6	..	
Hampton Park	67,672 13 6	627 6 2	5,862 9 4	0 2 0	..	1,512 8 4	67,672 13 6	5,862 9 4	1,115 3 3	1,739 5 6	..	
Hastings	89,461 6 2	1,077 12 9	4,620 0 1	1 16 3	..	14,470 14 7	89,461 6 2	4,620 0 1	1,147 7 9	8,289 5 6	..	
Longwarry	78,069 16 10	10,297 8 6	35,944 4 5	..	..	..	78,069 16 10	35,944 4 5	6,183 5 4	..	..	
Mornington	905,475 15 6	..	1,723 6 3	..	..	592 15 8	905,475 15 6	1,723 6 3	210 3 6	382 15 2	..	
Narre Warren	29,090 13 6	..	812 0 8	..	..	625 13 6	29,090 13 6	812 0 8	581 19 6	581 19 6	..	
Nar Nar Goon-Tynong	81,880 6 1	116 6 9	1,723 6 3	..	..	592 15 8	81,880 6 1	1,723 6 3	210 3 6	382 15 2	..	
Officer	28,940 14 0	..	1,723 6 3	..	..	592 15 8	28,940 14 0	1,723 6 3	210 3 6	382 15 2	..	
Pakenham	180,072 17 8	4,349 8 8	4,349 8 8	0 2 0	..	5,062 7 6	184,650 2 10	4,349 8 8	580 17 1	5,186 17 8	..	
Somerville	42,013 18 2	586 16 2	3,216 0 10	..	..	5,951 18 9	42,013 18 2	3,216 0 10	268 11 6	44,308 13 10	..	
South Frankston	992,357 15 11	6,182 12 10	26,237 3 5	15 11 1	..	52,404 18 7	992,357 15 11	26,237 3 5	7,914 11 4	44,308 13 10	..	
Tyabb	56,067 11 4	161 19 1	1,312 3 7	14 14 0	..	968 11 10	56,067 11 4	1,312 3 7	122 6 7	599 0 0	..	
System Totals	8,354,348 19 0	101,864 16 4	466,593 16 1	274 12 8	3,518 5 11	232,507 18 6	8,454,546 11 3	466,593 16 1	71,710 18 8	165,897 8 1	359 14 5	
SUPPLIED FROM OTWAY SYSTEM												
Allansford	45,725 10 3	234 7 6	2,424 18 6	..	2,643 11 3	..	45,999 1 7	2,424 18 6	111 16 11	..	2,592 10 6	
Camperdown	180,072 10 4	4,577 12 6	23,708 4 3	33 16 0	1,747 14 9	..	184,650 2 10	23,708 4 3	836 2 5	945 8 4	..	
Cobden	82,955 4 0	1,342 9 2	6,814 2 3	5 0 0	..	959 13 4	84,297 13 2	6,814 2 3	520 3 9	442 14 7	..	
Tarang	79,423 4 0	2,644 9 4	17,265 18 2	20 2 0	..	1,330 13 3	81,764 11 10	17,265 18 2	894 7 2	1,359 9 7	..	
System Totals	388,176 8 7	8,798 18 6	50,213 3 2	57 3 0	4,391 6 0	2,890 6 7	396,611 9 5	50,213 3 2	2,362 10 3	1,802 4 2	3,537 18 10	

URBAN DISTRICTS—BALANCE-SHEETS—continued.

DISTRICT.	LIABILITIES.						ASSETS.					
	Capital. See Capital Accounts for Details.	Redemption Account.	Depreciation Reserve Account.	Sundry Creditors.	Cash Account. DEFICIENCY.	Profit and Loss Account. GAIN	Works at Cost.	Depreciation Account.	Sundry Debtors.	Cash Account SURPLUS.	Profit and Loss Account. LOSS.	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	
	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	
SUPPLIED FROM SCHULERS, CAMPAIGN & LONDON SYSTEMS												
• Corop	375 16 10	..	292 6 0	0 1 2	204 17 11	..	375 16 10	292 6 0	110 16 5	..	94 2 8	
• Dingee	2,236 5 2	53 12 2	871 18 4	3 9 11	976 17 8	862 11 5	2,236 5 2	871 18 4	53 7 9	812 10 8	977 7 7	
• Gunbow	14,832 10 7	..	312 16 5	3 17 0	2,186 11 1	..	14,866 2 9	312 16 5	61 1 6	..	1,559 3 0	
• Koonbrook	10,222 0 1	98 14 8	1,970 11 7	3 13 5	2,186 11 1	730 19 4	10,222 0 1	1,970 11 7	54 11 11	694 15 5	..	
• Leitchville	9,027 15 0	133 19 10	974 16 5	1 0 0	..	1,176 19 10	9,027 15 0	974 16 5	59 1 0	1,156 16 1	..	
• Lockington	3,153 17 9	..	485 15 1	..	557 16 6	..	3,153 17 9	485 15 1	50 9 8	..	548 3 7	
• Macorna	2,423 12 5	2,952 17 4	486 11 7	..	2,467 2 2	..	2,423 12 5	486 11 7	24 12 0	2,628 9 9	..	
• Mitiamo	4,567 6 6	331 7 11	391 11 3	..	5,131 8 3	2,440 19 11	7,540 3 10	391 11 3	45 7 2	1,109 10 4	..	
• Murrabit	1,362 0 8	847 7 11	847 7 11	0 4 9	5,131 8 3	2,440 19 11	1,362 0 8	847 7 11	..	..	..	
• Pyramid Hill	15,382 11 5	335 18 0	1,591 2 1	4 12 11	..	2,621 7 8	13,718 9 5	1,591 2 1	..	..	..	
• Stanhope	15,632 19 8	217 12 8	2,626 15 9	11 7 8	..	1,154 3 6	15,913 11 2	2,626 15 9	..	..	..	
• Tallygaropna	4,052 14 8	54 18 3	641 7 2	0 14 0	..	..	4,107 12 11	641 7 2	..	..	..	
System Totals	87,359 1 9	3,877 12 11	11,542 13 7	26 0 10	11,524 13 7	8,986 11 8	91,073 8 3	11,542 13 7	1,336 9 5	8,589 12 9	10,702 10 4	
SUPPLIED FROM RIVER MURRAY												
• Curwarp	635 19 0	..	396 5 10	5 2 6	565 9 6	386 19 1	635 19 0	396 5 10	1,052 8 7	..	6,450 15 4	
• Lake Boga	10,531 17 10	4 7 11	2,143 13 7	8 6 4	7,368 18 3	7,296 16 2	10,571 17 10	2,143 13 7	2,568 0 6	4,707 4 0	1,982 2 3	
• Merbein	31,523 4 11	908 1 7	6,250 15 2	..	2,450 10 9	..	32,431 13 4	6,250 15 2	164 6 3	..	1,865 18 10	
• Meringur	4,566 0 1	0 1 7	1,472 9 6	0 3 6	1,470 1 7	..	4,566 0 1	1,472 9 6	536 3 1	..	1,391 15 0	
• Nyah	3,564 19 5	2 8 10	1,454 9 1	10 16 0	3,897 13 0	..	3,564 19 5	1,454 9 1	561 13 0	..	..	
• Nyah West	2,726 17 7	169 3 5	2,726 13 11	2 0 6	1,601 13 0	2,068 14 6	2,726 17 7	2,726 13 11	2,866 9 5	6,200 19 6	..	
• Pinnall	9,502 2 7	..	1,061 10 9	7 5 5	..	4,223 12 7	88,559 15 11	1,061 10 9	1,559 5 11	2,671 7 8	..	
• Red Cliffs	87,035 2 2	1,821 13 9	5,231 17 11	1 1 0	..	..	33,990 5 11	5,231 17 11	1,267 4 1	..	1,525 9 7	
• Robinvale	33,586 3 7	404 2 4	2,629 13 2	..	2,732 13 8	..	9,975 0 11	2,629 13 2	..	..	..	
• Merrimull	2,971 15 3	3 4 8	568 11 1	..	..	..	..	568 11 1	..	..	..	
System Totals	200,782 17 5	3,013 10 11	22,390 7 0	34 17 3	17,356 8 10	20,972 2 4	203,792 0 2	22,390 7 0	12,161 17 11	13,579 2 2	12,626 15 6	
SUPPLIED FROM WIMBERRA-KALLIE SYSTEM												
• Antwerp	712 13 2	24 7 8	177 9 6	1 5 11	143 16 11	..	735 6 4	177 9 6	97 4 8	..	48 6 9	
• Berrawillock	9,056 16 2	47 2 3	446 12 3	..	279 17 6	749 12 8	9,082 18 5	446 12 3	119 7 3	..	172 16 2	
• Melbah	20,182 15 4	124 4 4	1,493 11 7	19 10 3	2,293 18 6	..	20,280 5 8	1,493 11 7	1,005 0 11	..	..	
• Birnie	13,004 2 11	56 14 9	220 7 6	..	3,984 14 6	..	13,044 2 10	220 7 6	365 5 11	..	1,948 2 8	
• Chillingmollah	3,531 13 7	23 12 0	71 7 5	..	1,759 19 6	..	3,531 13 7	71 7 5	1,591 13 0	..	3,397 11 1	
• Chinkapook	3,222 12 6	207 14 8	207 14 8	6 1 0	2,156 8 3	697 5 5	3,222 12 6	207 14 8	159 7 5	598 19 10	1,977 0 10	
• Culgoa	5,901 5 4	197 18 3	448 2 0	10 8 0	306 0 9	3,478 18 0	5,901 5 4	448 2 0	104 6 7	..	..	
• Dimboola	24,094 10 0	1,012 12 4	4,836 10 5	15 1 10	684 13 8	462 18 4	25,107 3 4	4,836 10 5	3,565 6 9	..	74 0 0	
• Nooen	682 4 9	16 2 8	79 0 0	..	79 0 0	..	682 4 9	79 0 0	506 1 0	..	..	
• Hopetoun	43,029 19 1	333 8 1	1,530 11 0	1 3 4	684 13 8	2,154 13 3	43,288 16 0	1,530 11 0	1,240 13 0	1,312 9 10	..	
• Jeparit	30,264 4 11	646 2 11	1,511 1 9	..	5,817 9 2	462 18 4	30,940 7 10	1,511 1 9	823 12 9	..	5,654 0 7	
• Jung Jung	8,600 6 11	0 0 6	383 3 10	..	2,173 0 11	..	8,600 6 11	383 3 10	163 3 1	..	5,946 16 4	
• Lascelles	5,397 0 11	39 19 7	264 3 10	0 0 1	1,773 12 5	135 10 0	5,397 0 11	264 3 10	433 9 8	63 9 2	4,067 16 2	
• Manangatang	11,411 15 2	163 6 9	398 0 7	0 0 1	4,168 5 3	231 11 8	11,411 15 2	398 0 7	103 10 6	..	..	
• Marnoo	4,430 14 3	149 9 9	1,247 6 8	7 1 6	76 12 7	..	4,430 14 3	1,247 6 8	323 12 9	..	..	
• Minyip	1,571 0 6	439 1 6	393 6 0	3 17 3	807 12 5	..	1,571 0 6	393 6 0	481 12 10	..	..	
• Nandaly	2,267 14 10	294 3 4	1,601 2 1	..	395 5 6	..	2,267 14 10	1,601 2 1	..	..	..	
• Natimuk	5,714 18 4	..	..	..	..	..	5,714 18 4	..	..	..	..	

URBAN DISTRICTS—BALANCE-SHEETS—continued.

DISTRICT.	LIABILITIES.						ASSETS.				
	Capital. See Capital Accounts for Details.	Redemption Account.	Depreciation Reserve Account.	Sundry Creditors.	Cash Account. DEFICIENCY.	Profit and Loss GAIN.	Works at Cost.	Depreciation Account.	Sundry Debtors.	Cash Account SURPLUS.	Profit and Loss Account. LOSS.
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.
SUPPLIED FROM WATER-MILLER SYSTEM - Continuing											
* Mullawil	4,004 17 6	51 3 0	467 11 6	0 4 6	869 14 4	..	4,055 4 8	467 11 6	1 6 0	..	869 8 8
* Ouyen	59,892 13 8	275 7 2	3,640 11 2	15 5 5	2,492 3 6	..	60,086 0 5	3,640 11 2	1,191 11 2	..	2,398 18 2
* Patchewollock	4,548 1 0	0 1 10	338 18 9	..	2,762 9 1	..	4,548 2 4	338 18 9	1,125 15 6	..	1,636 14 1
* Pimpino	7,274 11 4	..	335 9 6	..	253 11 8	..	7,274 11 4	335 9 6	182 0 1	..	71 11 7
* Quambatook	8,693 6 4	65 4 7	203 8 11	5 7 3	..	446 19 0	8,758 10 11	203 8 11	1,46 15 9	309 10 6	..
* Rainbow	29,318 8 5	663 9 4	2,290 5 11	0 7 10	..	3,351 8 4	30,407 13 3	2,290 5 11	1,273 15 2	2,132 7 6	..
* Rupanyup	16,469 7 2	510 4 8	1,544 14 10	3 5 0	..	1,967 3 6	16,979 11 10	1,544 14 10	538 15 5	1,131 12 9	..
* Sea Lake	51,060 12 0	375 12 11	1,557 12 8	0 14 9	..	1,458 4 9	51,435 15 1	1,557 12 8	538 15 5	..	..
* Speed	2,456 15 2	0 0 6	425 15 8	..	2,262 7 8	..	2,463 15 3	425 15 8	56 16 2	952 6 1	..
* Tempy	2,465 12 4	0 16 11	751 1 3	..	2,231 14 1	..	2,764 3 9	751 1 3	320 11 3	..	2,211 11 10
* Ultima	15,632 17 8	0 16 10	198 8 6	3 17 8	2,534 11 0	..	12,651 4 5	198 8 6	545 4 9	..	1,890 18 4
* Waitechie	4,056 13 7	7 7 0	434 2 5	..	3,614 5 8	..	2,522 17 6	434 2 5	1,787 7 8	..	2,853 2 11
* Waiprep	5,351 11 6	43 17 5	1,147 19 8	..	3,256 9 9	..	4,023 0 7	1,147 19 8	139 5 2	..	2,738 3 4
* Wacchem	10,418 14 7	191 15 5	1,500 16 11	2 2 1	3,256 9 9	..	5,389 17 6	1,500 16 11	72 4 0	..	3,230 19 3
* Woodrang	10,681 13 6	52 16 3	203 17 10	1 9 0	174 16 4	111 16 4	10,610 10 0	203 17 10	262 7 9	..	..
* Woodrang	33,315 19 0	453 18 3	3,817 8 2	0 4 8	614 7 1	..	33,770 17 3	3,817 8 2	495 8 11	723 15 9	352 4 0
* Yapeet	2,342 17 3	3 18 8	895 12 1	0 0 6	1,949 1 3	..	2,346 13 11	895 12 1	64 0 0	..	1,885 3 9
System Totals	504,470 7 3	6,561 4 0	39,235 16 11	154 5 6	54,099 13 2	15,797 11 4	510,642 16 8	39,235 16 11	19,781 15 9	7,464 11 5	42,193 17 5
MISCELLANEOUS											
Eildon	78,991 3 0	1,009 7 0	8,850 13 8	..	..	2,406 13 2	80,000 10 0	8,850 13 8	131 5 7	2,775 7 7	..
Heyfield	56,988 1 9	696 5 0	5,882 12 7	0 0 3	..	1,481 14 4	57,674 12 9	5,882 12 7	247 5 12	834 9 5	..
* Newstead	19,448 11 1	179 0 4	3,002 5 7	1 1 0	15,928 5 8	..	19,627 16 9	3,002 5 7	210 2 10	..	15,729 17 6
* Menthagga	118,074 2 2	2,481 15 10	18,404 5 5	40 9 9	5,440 16 10	..	120,514 13 0	18,404 5 5	2,206 16 3	..	3,114 10 2
Miscellaneous Totals	273,501 18 0	4,226 8 2	36,149 17 3	41 11 0	21,269 2 6	4,338 7 6	277,707 11 6	36,149 17 3	3,295 11 0	3,600 17 0	12,314 7 8
Grand Totals	10,692,132 9 6	138,162 15 7	676,544 10 6	735 5 8	113,097 10 5	338,277 5 3	10,926,542 5 10	676,544 10 6	125,378 5 9	231,149 9 8	89,335 5 2

\* The Districts marked thus are those whose works will not produce sufficient revenue to cover the expense of maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loan 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 6th March, 1963, under the provisions of Section 47, Water Act 1958, No. 6413.)

BALANCE-SHEETS AS AT 30TH JUNE, 1963.

DISTRICT.	LIABILITIES.					ASSETS.					
	Capital. See Capital Accounts for Details.	Redemption Account.	Depreciation Reserve Account.	Sundry Creditors.	Cash Account. DEFICIENCY.	Profit and Loss Account. GAIN.	Works at Cost.	Depreciation Account.	Sundry Debtors.	Cash Account SURPLUS.	Profit and Loss Account. LOSS.
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.

FLOOD PROTECTION DISTRICTS.

Kanyapella	3,893 11 0	64 4 2	..	..	79,310 8 10	632 18 4	3,937 15 2	..	..	632 18 4	..
Koo-wee-rup	885,047 19 4	..	11,546 6 10	19 19 11	..	..	885,047 19 4	11,546 6 10	17,659 14 7	..	61,471 14 2
Loch Garry	20,406 12 9	5,959 3 9	..	2 12 11	..	1,488 12 8	26,365 16 6	..	84 12 1	1,406 13 6	..
Totals	909,348 3 1	6,023 7 11	11,546 6 10	22 12 10	79,310 8 10	2,121 11 0	915,371 11 0	11,546 6 10	17,943 6 8	2,039 11 10	61,471 14 2

DRAINAGE DISTRICT.

Curram	614,784 9 11	995 7 2	2,048 7 4	1,803 17 6	..	23,242 1 1	615,779 17 1	2,048 7 4	5,107 12 3	19,398 6 4	..
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\* Includes Capitalized Maintenance on Bridges - Koo-wee-rup £15,607.

SUMMARY OF DISTRICT BALANCE SHEETS AS AT 30TH JUNE, 1963.

DISTRICT.	LIABILITIES.					ASSETS.					
	Capital.	Redemption Account.	(A) Depreciation Reserve Account. (B) Irrigation Districts Maintenance Equalization and Renewals Reserve Account.	Sundry Creditors.	Cash Account. DEFICIENCY.	Profit and Loss Account. GAIN.	Works at Cost.	(A) Depreciation Account. (B) Irrigation Districts Maintenance Equalization and Renewals Account.	Sundry Debtors.	Cash Account. SURPLUS.	Profit and Loss Account. LOSS.
	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
Plant Workshops Coliban Irrigation - Pumping Gravitation Waterworks Urban Flood Protection Drainage Totals	271,824 17 9	741 4 8	(A) 35,515 13 0	..	4,636 8 10	3,247 12 11	272,566 2 5	(A) 35,515 13 0	7,842 11 10	41 9 11	..
	4,285,522 13 3	19,720 9 3	(A) 111,431 4 6	1,537 3 7	1,394,654 14 10	..	4,290,517 8 10	(A) 111,431 4 6	41,119 18 2	..	1,369,797 13 11
	3,868,224 16 7	54 19 10	(B) 20,690 17 5	163 18 10	866,499 8 6	..	3,869,279 16 5	(B) 20,690 17 5	82,598 18 6	..	784,064 8 10
	66,263,575 4 2	28,037 3 7	(B) 96,789 14 0	8,126 8 8	537,948 11 8	50,895 6 6	66,291,612 7 9	(B) 96,789 14 0	247,607 18 6	35,038 16 8	314,323 11 8
	9,488,877 9 4	41,423 1 5	(A) 263,957 15 8	3,181 7 7	4,960,602 18 10	50,066 2 8	9,522,061 14 10	(A) 263,957 15 8	28,925 7 1	47,248 9 5	4,945,915 8 6
	10,692,132 9 6	138,162 15 7	(A) 676,544 10 6	735 5 8	113,097 10 5	328,277 5 3	10,826,542 5 10	(A) 676,544 10 6	125,378 5 9	231,149 9 8	89,335 5 2
	909,348 3 1	6,023 7 11	(A) 11,546 6 10	22 12 10	79,310 8 10	2,121 11 0	915,371 11 0	(A) 11,546 6 10	17,943 6 8	2,039 11 10	61,471 14 2
	614,784 9 11	995 7 2	(A) 2,048 7 4	1,803 17 6	..	23,242 1 1	615,779 17 1	(A) 2,048 7 4	5,107 12 3	19,938 6 4	..
	96,394,290 3 7	235,158 9 5	(A) 1,101,043 17 10 (B) 117,480 11 5	15,570 14 8	7,956,750 1 11	457,849 19 5	96,602,731 4 2	(A) 1,101,043 17 10 (B) 117,480 11 5	556,523 18 9	335,456 3 10	7,564,908 2 3

DISTRICTS WHICH WERE REQUIRED TO MEET ALL ANNUAL OPERATING COSTS

	271,824 17 9	741 4 8	(A) 35,515 13 0	..	4,636 8 10	3,247 12 11	272,566 2 5	(A) 35,515 13 0	7,842 11 10	41 9 11	..
£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.
Plant Workshops	271,824 17 9	741 4 8	(A) 35,515 13 0	..	4,636 8 10	3,247 12 11	272,566 2 5	(A) 35,515 13 0	7,842 11 10	41 9 11	..
Coliban	4,285,522 13 3	19,720 9 3	(A) 111,431 4 6	1,537 3 7	1,394,654 14 10	..	4,290,517 8 10	(A) 111,431 4 6	41,119 18 2	..	1,369,797 13 11
Irrigation -											
Pumping	3,868,224 16 7	54 19 10	(B) 20,690 17 5	163 18 10	866,499 8 6	..	3,869,279 16 5	(B) 20,690 17 5	82,598 18 6	..	784,064 8 10
Gravitation	66,263,575 4 2	28,037 3 7	(B) 96,789 14 0	8,126 8 8	537,948 11 8	50,895 6 6	66,291,612 7 9	(B) 96,789 14 0	247,607 18 6	35,038 16 8	314,323 11 8
Waterworks	9,488,877 9 4	41,423 1 5	(A) 263,957 15 8	3,181 7 7	4,960,602 18 10	50,066 2 8	9,522,061 14 10	(A) 263,957 15 8	28,925 7 1	47,248 9 5	4,945,915 8 6
Urban	10,692,132 9 6	138,162 15 7	(A) 676,544 10 6	735 5 8	113,097 10 5	328,277 5 3	10,826,542 5 10	(A) 676,544 10 6	125,378 5 9	231,149 9 8	89,335 5 2
Flood Protection	909,348 3 1	6,023 7 11	(A) 11,546 6 10	22 12 10	79,310 8 10	2,121 11 0	915,371 11 0	(A) 11,546 6 10	17,943 6 8	2,039 11 10	61,471 14 2
Drainage	614,784 9 11	995 7 2	(A) 2,048 7 4	1,803 17 6	..	23,242 1 1	615,779 17 1	(A) 2,048 7 4	5,107 12 3	19,938 6 4	..
Totals	85,544,954 12 5	198,131 17 11	(A) 764,513 2 3 (B) 116,445 16 11	10,959 6 8	1,444,964 14 10	455,919 6 2	85,735,934 13 9	(A) 764,513 2 3 (B) 116,445 16 11	476,589 8 0	334,096 14 3	1,108,309 2 0

DISTRICTS SUBSIDIZED OR SUPPLIED BY DIRECTION OF GOVERNOR IN COUNCIL

	4,285,522 13 3	19,720 9 3	(A) 111,431 4 6	1,537 3 7	1,394,654 14 10	..	4,290,517 8 10	(A) 111,431 4 6	41,119 18 2	..	1,369,797 13 11
£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.
Plant Workshops	4,285,522 13 3	19,720 9 3	(A) 111,431 4 6	1,537 3 7	1,394,654 14 10	..	4,290,517 8 10	(A) 111,431 4 6	41,119 18 2	..	1,369,797 13 11
Coliban	530,527 9 10	54 19 10	(B) 1,034 14 6	53 9 10	316,884 12 8	..	530,582 9 8	(B) 1,034 14 6	19,128 0 1	..	237,810 2 5
Irrigation -											
Pumping	5,757,398 19 5	10,845 17 10	(A) 187,701 10 7	2,980 19 11	4,716,873 17 5	..	5,763,980 14 7	(A) 187,701 10 7	8,308 5 4	..	4,715,810 14 8
Gravitation	275,886 8 8	6,405 4 7	(A) 37,398 0 6	39 14 8	83,372 2 2	1,930 13 3	281,715 17 4	(A) 37,398 0 6	11,378 7 2	1,359 9 7	73,180 9 3
Waterworks	..	..	..	..	..	..	..	..	..	..	..
Urban	..	..	..	..	..	..	..	..	..	..	..
Flood Protection	..	..	..	..	..	..	..	..	..	..	..
Drainage	..	..	..	..	..	..	..	..	..	..	..
Totals	10,849,335 11 2	27,026 11 6	(A) 336,530 15 7 (B) 1,034 14 6	4,611 8 0	6,511,785 7 1	1,930 13 3	10,866,796 10 5	(A) 336,530 15 7 (B) 1,034 14 6	79,934 10 9	1,359 9 7	6,456,599 0 3

\* Includes Capitalized Maintenance on Bridges - Koo-wee-rup £15,607  
 † Excludes Diversions Branch.

IRRIGATION DISTRICTS MAINTENANCE EQUALIZATION AND RENEWALS  
ACCOUNT, 1962-63.

DISTRICT.	Balance at 1st July, 1962.	Capitalized Maintenance Paid Direct to Account 1962-63.	Cash Surpluses Transferred to Account 1962-63.	TOTAL.	Expenditure, 1962-63.	Balance at 30th June, 1963.
1.	2.	3.	4.	5.	6.	7.
	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.
Bacchus Marsh	5,138 10 9	..	7,367 8 6	12,505 19 3	2,923 10 6	9,582 8 9
Campaspe	596 15 7	..	226 18 0	823 13 7	..	823 13 7
Goulburn-Murray	24,782 13 4	1,541 4 9	18,221 2 7	44,545 0 8	537 1 10	44,007 18 10
Macalister	18,932 5 2	150 5 9	22,434 5 9	41,516 16 8	7,505 18 10	34,010 17 10
Merbein	771 19 4	..	..	771 19 4	..	771 19 4
Nyah	711 4 5	..	..	711 4 5	..	711 4 5
Red Cliffs	3,826 5 7	..	..	3,826 5 7	1,106 13 11	2,719 11 8
Robinvale	7,834 2 11	..	8,330 9 0	16,164 11 11	..	16,164 11 11
Tresco	323 10 1	..	..	323 10 1	..	323 10 1
Werritee	7,535 18 5	84 14 6	2,421 8 7	10,042 1 6	1,677 6 6	8,364 15 0
Totals	70,453 5 7	1,776 5 0	59,001 12 5	131,231 3 0	13,750 11 7	117,480 11 5

WATER SUPPLY WORKS DEPRECIATION ACCOUNTS, 1962-63.

DISTRICT.	Balance at 1st July, 1962.	Amount Paid into Account 1962-63.	Interest 1962-63.	TOTAL.	Expenditure, 1962-63.	Balance in Account at 30th June, 1963.
1.	2.	3.	4.	5.	6.	7.
	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.
WATERWORKS DISTRICTS						
Bellarine Peninsula	Cr. 11,704 9 6	1,794 0 0	Cr. 292 12 3	Cr. 10,203 1 9	..	Cr. 10,203 1 9
East Loddon	565 16 7	15 0 0	14 2 11	594 19 6	..	594 19 6
Harcourt	454 18 2	21 0 0	11 7 6	487 5 8	..	487 5 8
Kerang-North-West Lakes	226 8 5	..	5 13 3	232 1 8	..	232 1 8
Mallee	5,403 16 10	512 0 0	135 1 11	6,050 18 9	..	6,050 18 9
Millewa	67,635 7 2	7,177 0 0	1,690 17 8	76,503 4 10	..	76,503 4 10
Mornington Peninsula	46,918 1 9	10,020 0 0	1,170 9 7	58,108 11 4	99 0 0	58,009 11 4
Normanville	5,103 19 10	396 0 0	127 12 0	5,627 11 10	..	5,627 11 10
Northern Mallee	14,391 10 3	1,105 0 0	359 15 9	15,856 6 0	..	15,856 6 0
Otway	72,133 10 0	7,590 0 0	1,803 6 9	81,526 16 9	..	81,526 16 9
Tyntynder North	1,895 4 10	194 0 0	47 7 7	2,136 12 5	..	2,136 12 5
Upper Wimmera	651 11 1	22 0 0	12 1 3	685 12 4	..	685 12 4
Werribee	18 17 6	..	0 9 5	19 6 11	..	19 6 11
West Loddon	1,108 2 9	..	27 14 2	1,135 16 11	..	1,135 16 11
Wimmera	23,306 2 9	1,898 0 0	577 15 5	25,781 18 2	..	25,781 18 2
Totals	228,108 18 5	30,744 0 0	5,691 2 11	264,544 1 4	99 0 0	264,445 1 4

URBAN DISTRICTS

Allansford	1,848 14 2	530 0 0	46 4 4	2,424 18 6	..	2,424 18 6
Anglesea	3,868 1 1	762 0 0	96 14 0	4,726 15 1	..	4,726 15 1
Antwerp	159 12 3	14 0 0	3 17 3	177 9 6	..	177 9 6
Barwon Heads-Ocean Grove	6,093 6 0	2,466 0 0	151 6 8	8,670 12 8	..	8,670 12 8
Berrillillock	399 12 5	37 0 0	9 19 10	446 12 3	..	446 12 3
Berwick	6,591 8 4	1,275 0 0	164 15 8	8,031 4 0	..	8,031 4 0
Beulah	1,407 19 11	109 0 0	33 15 5	1,550 15 4	57 3 9	1,493 11 7
Birchip	640 4 1	127 0 0	16 0 1	783 4 2	..	783 4 2
Birregurra	1,868 5 1	180 0 0	46 14 2	2,094 19 3	..	2,094 19 3
Bittern-Crib Point	4,337 15 7	1,027 0 0	108 8 10	5,473 4 5	..	5,473 4 5
Brim	311 19 9	50 0 0	4 3 1	366 2 10	145 15 4	220 7 6
Bunyip	4,420 5 1	736 0 0	47 2 2	5,203 7 3	2,536 0 0	2,667 7 3
Camperdown	21,629 9 6	1,538 0 0	540 14 9	23,708 4 3	..	23,708 4 3
Carrum Downs	157 0 0	509 0 0	3 18 6	669 18 6	..	669 18 6
Carwarp	282 8 11	8 0 0	5 16 11	296 5 10	..	296 5 10
Chelsea-Frankston	109,184 1 11	17,603 0 0	2,729 2 0	129,516 3 11	20 0 0	129,496 3 11
Chillingollah	54 0 5	16 0 0	1 7 0	71 7 5	..	71 7 5
Chinkapook	171 8 11	32 0 0	4 5 9	207 14 8	..	207 14 8
Cobham	6,025 9 6	638 0 0	150 12 9	6,814 2 3	..	6,814 2 3
Coliban	98,967 7 0	24,773 0 0	2,049 3 8	125,789 10 8	17,000 0 0	108,789 10 8
Corop	246 2 11	40 0 0	6 3 1	292 6 0	..	292 6 0
Cranbourne	2,044 4 0	876 0 0	49 14 1	2,969 18 1	56 0 0	2,913 18 1
Culgoa	392 5 10	46 0 0	9 16 2	448 2 0	..	448 2 0
Dandenong-Springvale	57,401 4 3	5,824 0 0	1,435 0 9	64,660 5 0	..	64,660 5 0
Dimboola	4,156 12 2	376 0 0	103 18 3	4,636 10 5	..	4,636 10 5
Dingee	743 6 8	110 0 0	18 11 8	871 18 4	..	871 18 4
Doon	472 4 10	22 0 0	11 16 2	506 1 0	..	506 1 0
Dromana-Portsea	128,806 19 5	34,582 0 0	3,220 3 6	166,609 2 11	..	166,609 2 11
Drysdale	3,948 9 6	370 0 0	98 14 3	4,417 3 9	..	4,417 3 9
Eildon	7,499 4 1	1,174 0 0	187 9 7	8,860 13 8	..	8,860 13 8
Elphinstone	749 19 5	122 0 0	18 15 0	890 14 5	..	890 14 5
Garfield	2,853 1 9	505 0 0	20 13 0	3,378 14 9	2,027 0 0	1,351 14 9
Gunbower	155 18 6	153 0 0	3 17 11	312 16 5	..	312 16 5
Hampton Park	..	624 0 0	..	624 0 0	..	624 0 0
Hastings	4,560 9 1	1,188 0 0	114 0 3	5,862 9 4	..	5,862 9 4
Heyfield	5,133 5 11	621 0 0	128 5 8	5,882 12 7	..	5,882 12 7
Hopetoun	1,452 13 8	160 0 0	35 17 4	1,648 11 0	18 0 0	1,630 11 0
Indented Head-St. Leonards	..	1,282 0 0	..	1,282 0 0	..	1,282 0 0
Jeparit	1,132 15 4	150 0 0	28 6 5	1,311 1 9	..	1,311 1 9
Jung Jung	794 9 7	69 0 0	19 17 3	883 6 10	..	883 6 10
Koondrook	1,717 12 9	210 0 0	42 18 10	1,970 11 7	..	1,970 11 7
Lake Boga	1,893 6 11	203 0 0	47 6 8	2,143 13 7	..	2,143 13 7
Lalbert	164 11 7	96 0 0	4 2 3	264 13 10	..	264 13 10
Lascelles	320 18 5	95 0 0	8 0 6	413 18 11	..	413 18 11
Leitchville	875 7 10	191 0 0	19 2 4	1,065 10 2	110 13 9	974 16 5
Leopold	139 14 6	137 0 0	3 9 10	280 4 4	..	280 4 4

## WATER SUPPLY WORKS DEPRECIATION ACCOUNTS, 1962-63—continued.

DISTRICT.	Balance at 1st July, 1962.	Amount Paid into Account 1962-63.	Interest 1962-63.	TOTAL.	Expenditure, 1962-63.	Balance in Account at 30th June, 1963.
1.	2.	3.	4.	5.	6.	7.
£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.
URBAN DISTRICTS - cont'd.						
Lockington	475 17 2	158 0 0	11 17 11	645 15 1		645 15 1
Longwarry	5,009 12 3	832 0 0	92 7 10	5,934 0 1	1,314 0 0	4,620 0 1
Macorna	422 0 7	54 0 0	10 11 0	486 11 7	..	486 11 7
Manangatang	307 6 11	83 0 0	7 13 8	398 0 7	..	398 0 7
Marnoo	1,803 5 0	99 0 0	45 1 8	1,947 6 8	..	1,947 6 8
Merbein	5,490 9 11	623 0 0	137 5 3	6,250 15 2	..	6,250 15 2
Marong	1,107 19 10	128 0 0	27 13 11	1,263 13 9	..	1,263 13 9
Meringur	425 13 8	36 0 0	10 12 10	472 6 6	..	472 6 6
Minyip	785 15 11	189 0 0	17 1 7	991 17 6	102 11 6	889 6 0
Mitiamo	286 8 1	98 0 0	7 3 2	391 11 3	..	391 11 3
Mornington	27,665 0 11	9,123 0 0	654 3 6	37,442 4 5	1,498 0 0	35,944 4 5
Murrabit	711 12 1	118 0 0	17 15 10	847 7 11	..	847 7 11
Nandaly	343 8 3	36 0 0	8 11 9	388 0 0	..	388 0 0
Nar Nar Goon-Tynong	1,029 11 6	668 0 0	25 14 9	1,723 6 3	..	1,723 6 3
Natimuk	1,474 4 11	90 0 0	36 17 2	1,601 2 1	..	1,601 2 1
Newstead	2,700 15 2	234 0 0	67 10 5	3,002 5 7	..	3,002 5 7
Nullawil	417 2 11	40 0 0	10 8 7	467 11 6	..	467 11 6
Nyah	1,322 7 11	99 0 0	33 1 2	1,454 9 1	..	1,454 9 1
Nyah West	2,165 8 11	177 0 0	50 16 11	2,393 5 10	131 11 11	2,261 13 11
Officer	432 4 6	369 0 0	10 16 2	812 0 8	..	812 0 8
Ouyen	3,018 3 2	590 0 0	74 8 0	3,682 11 2	42 0 0	3,640 11 2
Pakenham	2,830 13 4	1,448 0 0	70 15 4	4,349 8 8	..	4,349 8 8
Patchewollock	266 5 7	66 0 0	6 13 2	338 18 9	..	338 18 9
Piangil	927 7 1	111 0 0	23 3 8	1,061 10 9	..	1,061 10 9
Pimpinio	276 11 3	52 0 0	6 18 3	335 9 6	..	335 9 6
Portarlinton	9,116 7 10	1,136 0 0	227 18 2	10,480 6 0	..	10,480 6 0
Pyramid Hill	1,433 5 5	112 0 0	35 16 8	1,581 2 1	..	1,581 2 1
Quambatook	71 13 1	130 0 0	1 15 10	203 8 11	..	203 8 11
Queenscliff-Point Lonsdale	11,005 3 11	1,990 0 0	273 9 2	13,268 13 1	66 18 8	13,201 14 5
Rainbow	2,010 0 11	230 0 0	50 5 0	2,290 5 11	..	2,290 5 11
Red Cliffs	4,429 13 1	691 0 0	110 14 10	5,231 7 11	..	5,231 7 11
Robinsvale	2,329 8 6	242 0 0	58 4 8	2,629 13 2	..	2,629 13 2
Rupanyup	1,322 13 6	189 0 0	33 1 4	1,544 14 10	..	1,544 14 10
Sea Lake	1,468 10 2	180 0 0	32 17 2	1,681 7 4	154 4 8	1,527 2 8
Somerville	2,640 0 10	510 0 0	66 0 0	3,216 0 10	..	3,216 0 10
South Frankston	17,173 18 5	8,658 0 0	429 5 0	26,261 3 5	4 0 0	26,257 3 5
Speed	339 6 0	78 0 0	8 9 8	425 15 8	..	425 15 8
Stanhope	2,271 0 3	299 0 0	56 15 6	2,626 15 9	..	2,626 15 9
Tallygaroopna	568 3 1	59 0 0	14 4 1	641 7 2	..	641 7 2
Tempy	701 12 0	78 0 0	17 10 10	797 2 10	..	797 2 10
Terang	15,961 17 2	905 0 0	399 1 0	17,265 18 2	..	17,265 18 2
Torquay	4,519 15 2	532 0 0	112 19 10	5,164 15 0	..	5,164 15 0
Tyabb	677 5 0	618 0 0	16 18 7	1,312 3 7	..	1,312 3 7
Ultima	662 10 0	72 0 0	16 11 3	751 1 3	..	751 1 3
Waitchie	167 5 1	27 0 0	4 3 7	198 8 8	..	198 8 8
Walpeup	379 12 8	45 0 0	9 9 9	434 2 5	..	434 2 5
Watchem	1,037 1 1	85 0 0	25 18 7	1,147 19 8	..	1,147 19 8
Werrimull	503 19 1	72 0 0	12 12 0	588 11 1	..	588 11 1
Wonthaggi	15,726 2 10	2,409 0 0	390 2 7	18,525 5 5	121 0 0	18,404 5 5
Woomelang	1,336 8 8	131 0 0	33 8 3	1,500 16 11	..	1,500 16 11
Woorinen	282 18 4	48 0 0	3 14 7	334 12 11	133 15 1	200 17 10
Wycheproof	3,516 11 8	252 0 0	86 19 3	3,855 10 11	38 2 9	3,817 8 2
Yaapeet	803 10 5	72 0 0	20 1 8	895 12 1	..	895 12 1
Totals	660,184 9 10	137,017 0 0	15,863 16 11	813,065 6 9	25,576 17 5	787,488 9 4
FLOOD PROTECTION DISTRICT						
Koo-Wee-Rup	8,349 12 0	2,988 0 0	208 14 10	11,546 6 10	..	11,546 6 10
DRAINAGE DISTRICT						
Carrum	1,348 13 0	666 0 0	33 14 4	2,048 7 4	..	2,048 7 4
SEWERAGE DISTRICT						
Eildon	4,144 4 3	998 0 0	103 12 1	5,245 16 4	..	5,245 16 4
BUILDINGS						
Buildings	31,659 16 8	5,250 0 0	703 1 0	37,612 17 8	3,537 15 3	34,075 2 5
PLANT WORKSHOPS						
Bendigo	29,882 15 9	2,400 0 0	747 1 4	33,029 17 1	..	33,029 17 1
Kerang	1,896 19 7	222 0 0	47 8 6	2,166 8 1	..	2,166 8 1
Tatura	262 16 5	50 0 0	6 11 5	319 7 10	..	319 7 10
Totals	32,042 11 9	2,672 0 0	801 1 3	35,515 13 0	..	35,515 13 0
Grand Totals	965,838 5 11	180,335 0 0	23,405 3 4	1,169,578 9 3	29,213 12 8	1,140,364 16 7



WATER SUPPLY PLANT AND MACHINERY ACCOUNT (ACT 6413).

	£	s.	d.		£	s.	d.		£	s.	d.
Balance as at 1st July, 1962				338,226	6	9		Interest due for year paid to			
Amounts charged for moneys author- ized for carrying out con- struction and maintenance of Commission Works on which plant and machinery were en- gaged with respect to Capital Liability of £1,553,141 18 6 as at 30th June, 1963 -								Revenue No.2 to 30th June, 1963	47,417	6	7
								Redemption paid to Revenue			
								No.9 Miscellaneous to 30th June, 1963	3,951	8	10
								Water Supply Plant and Machinery Depreciation Fund (Investment in Treasury)	304,702	11	10
								Interest on Funds Investment	41,548	15	0
									346,251	6	10
Interest	54,230	3	8					Cost of Operations, Maintenance, and Repairs, etc.	350,504	5	8
Redemption	4,519	3	8					Plant and Machinery Operating Account Reserve as at 30th June, 1963	315,429	16	3
Depreciation	304,702	11	10								
Cost of Operations, Main- tenance, and Repairs etc.	320,327	3	3	683,779	2	5					
Interest-Depreciation Fund Investments				41,548	15	0					
				1,063,554	4	2			1,063,554	4	2

## WATER SUPPLY PLANT AND MACHINERY ACCOUNT (ACT 6413).

## SUMMARY OF CAPITAL TRANSACTIONS FOR YEAR ENDED 30TH JUNE, 1963.

	£	s.	d.	£	s.	d.
Plant and Machinery -						
Debit Balance in Account as at 30th June, 1962	1,604,062	3	2			
Add - Purchases of Plant from Loan Funds during year 1962-63	37,894	16	6			
						1,641,956 19 8
Deduct -						
Redemption paid to Treasury 30th June, 1963	3,951	8	10			
Repayments to State Loans Repayment Fund	84,863	12	2			
						88,815 1 0
Total Capital Liability						1,553,141 18 8

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

Plant and Machinery -			
Payments to 30th June, 1962	651,805	14	7
Amount due and paid for year 1962-63	47,417	6	7
	699,223	1	2

RECONCILIATION OF WATER SUPPLY PLANT AND MACHINERY DEPRECIATION ACCOUNT  
WITH WATER SUPPLY PLANT AND MACHINERY DEPRECIATION FUND (ACT 6413).

Water Supply Plant and Machinery Depreciation Account.		Water Supply Plant and Machinery Depreciation Fund (in Treasury).	
£	s. d.	£	s. d.
Credit Balance as at 30th June, 1962	1,211,669 18 0	Balance as per Treasury General Account at 30th June, 1962	333,669 18 0
Add -		Payments to Fund during 1962-63	304,702 11 10
Proceeds from Hire of Plant	304,702 11 10	Interest credited by Treasury on Investments for year 1962-63	41,548 15 0
Interest credited for year 1962-63	41,548 15 0		346,251 6 10
	346,251 6 10		679,921 4 10
Less Expenditure for replacement of Plant	245,873 12 9	Less Withdrawals for replacement of plant	245,873 12 9
	100,377 14 1	Repayments to State Loans Repayment Fund for plant sold and not replaced	74,737 4 8
Repayments to State Loans Repayment Fund for plant sold and not replaced	74,737 4 8		320,610 17 5
	25,640 9 5		359,310 7 5
		Less Funds invested during 1962-63	..
		Balance as per Treasury General Account at 30th June, 1963	359,310 7 5
		Amount Invested in Treasury Investment Account	878,000 0 0
	1,237,310 7 5		1,237,310 7 5

STATEMENT OF REVENUE SETTING OUT ARREARS AS AT 1ST JULY, 1962, AND AS AT 30TH JUNE, 1963.

	TOTAL	Water Act 1958 (No. 6413), Sec. 374.		General Rate.		Irrigation Charge.		Drainage Rate.		Flood Protection Charge.		Sales of Water.		Miscellaneous.
		Consolidated Arrears.	Interest.	Rate.	Interest.	Charge.	Interest.	Rate.	Interest.	Charge.	Interest.	Sales.		
£.	£.	£.	£.	£.	£.	£.	£.	£.	£.	£.	£.	£.	£.	
Arrears at 1st July, 1962	607,894	164	71	104,009	11,245	66,321	6,529	18,204	1,571	2,600	176	382,142	1,384	13,478
Assessments 1962-63	2,458,099	..	..	1,192,111	..	1,012,913	..	211,666	..	41,409	..	..	..	..
Additional Water Sales, and Interest Charges to 30th June, 1963	927,345	..	6	..	6,284	..	6,331	..	1,340	..	224	669,650	2,210	241,300
Total Amount Collectable, 1962-63	3,993,338	164	77	1,296,120	17,529	1,079,234	12,860	229,870	2,911	44,009	400	1,051,792	3,594	254,778
Deduct -														
(i) Revenue Collected, 1962-63	3,451,142	119	52	1,196,090	6,699	967,365	5,126	208,551	1,413	41,793	255	771,441	2,158	250,080
(ii) Credits Absorbed	9,392			3,875	2	643	4	204	..	2	..	1,694	9	2,959
Balance	532,804	45	25	96,155	10,828	111,226	7,730	21,115	1,498	2,214	145	278,657	1,427	1,739
Add - Amounts Overpaid	18,309	..	..	4,556	5	254	6	2,295	5	22	..	3,142	6	8,018
Total Gross Arrears at 30th June, 1963	551,113	45	25	100,711	10,833	111,480	7,736	23,410	1,503	2,236	145	281,799	1,433	9,757
Deduct Amounts recommended for Writing Off	12,715	..	..	3,059	209	3,074	42	1,669	159	44	1	1,987	30	2,441
Balance - Net Arrears 30th June, 1963	538,398	45	25	97,652	10,624	108,406	7,694	21,741	1,344	2,192	144	279,812	1,403	7,316

Excludes operations of Eildon Sewerage District. This Statement is subject to Audit and minor adjustments.

## CAPITAL EXPENDITURE.

STATEMENT OF MONEYS EXPENDED UNDER WATER SUPPLY LOAN ACTS FOR THE YEAR ENDED  
30TH JUNE, 1963.

WORKS.	Water Supply Loan Funds.		
	Act 6820.	Act 6934.	Total.
	£. s. d.	£. s. d.	£. s. d.
MAIN SUPPLY WORKS, STORES, AND WORKSHOPS.			
Bellarine Peninsula Headworks	1,219 13 4	1,497 17 6	2,717 10 10
Buffalo Reservoir	522 0 8	4,153 12 7	4,675 13 3
Bulk Storeyard - South Melbourne	..	4,205 14 6	4,205 14 6
Cairn Curran Reservoir	Cr. 1 9 7	718 2 3	716 12 8
Central Highlands Development Project	8,847 11 5	3,280 10 4	12,128 1 9
Commission Buildings	6,768 6 2	26,171 14 1	32,940 0 3
Commission Workshops	..	220 0 0	220 0 0
East Goulburn Main Channel	74,823 5 9	34,305 9 5	109,128 15 2
Eildon Reservoir Enlargement	3,984 12 9	3,647 4 5	7,631 17 2
Eppalock Reservoir	524,050 1 7	778,467 7 3	1,302,517 8 10
Glenmaggie Weir	302 3 4	66 12 0	368 15 4
Goulburn Weir	138 18 8	8,214 2 5	8,353 1 1
Goulburn System Enlargement	36,283 2 10	138,193 18 11	174,477 1 9
Lake Bellfield Reservoir	..	193,775 5 10	193,775 5 10
Lake Corangamite Drainage Project	9,084 4 8	5,487 15 1	14,571 19 9
Little Murray Weir	..	909 17 4	909 17 4
Loddon River Works	..	1,612 12 1	1,612 12 1
Loddon Weir	72 7 6	7 0 0	79 7 6
Maffra Weir	15 14 6	2 0 0	17 14 6
Melton Reservoir	1,116 11 10	1,270 5 2	2,386 17 0
Mornington Peninsula Headworks	73,688 19 6	321,682 7 4	395,371 6 10
Otway System Headworks	60,019 7 6	104,650 15 11	164,670 3 5
Plant and Machinery	16,589 18 9	21,304 17 9	37,894 16 6
Pykes Creek Reservoir	102 10 0	50 0 0	152 10 0
River Murray Agreement Works	32,000 0 0	28,000 0 0	60,000 0 0
Rocklands Storage	607 2 9	824 1 8	1,431 4 5
Stuart Murray Canal	8 14 4	770 0 0	778 14 4
Surveys and Investigations	43,471 6 2	125,761 19 1	169,233 5 3
Tallangatta Township Removal	246 13 0	..	246 13 0
Toolondo Reservoir	..	8,240 10 7	8,240 10 7
Torrumbarry System	18,397 1 10	29,849 12 8	48,246 14 6
Tullaroop Creek Reservoir	605 7 7	28,118 3 0	28,723 10 7
Waranga Reservoir Enlargement	220 16 7	438 1 0	658 17 7
Waranga Western Channel Enlargement	5,863 9 4	6,842 18 10	12,706 8 2
Waranga Western Channel from 56 mile Regulator	63 0 11	91 4 3	154 5 2
Waranga Western Channel Extension	Cr. 2 16 0	4,519 15 8	4,526 19 8
Werribee Research Station	11 18 0	57 1 10	68 19 10
Wimmera Main Channels	5,073 12 4	16,685 0 11	21,758 13 3
Wimmera Storages	258 0 0	32 13 6	290 13 6
Total	924,452 8 0	1,904,126 5 2	2,828,578 13 2
IRRIGATION DISTRICTS.			
Bacchus Marsh	8,747 17 4	5,014 18 2	13,762 15 6
Campaspe	57 6 9	3,943 1 5	4,000 8 2
Goulburn-Murray	454,305 1 9	887,223 8 3	1,341,528 10 0
Macalister	27,164 4 6	41,326 18 0	68,491 2 6
Merbein	6,663 7 3	12,894 0 4	19,557 7 7
Nyah	2,181 0 4	903 1 2	3,084 1 6
Red Cliffs	3,604 7 10	27,595 16 1	31,200 3 11
Robinvale	7,875 15 5	1,763 3 5	9,638 18 10
Tresco	1,980 15 9	3,023 6 0	5,004 1 9
Werribee	894 9 6	4,266 18 6	5,161 8 0
Total	513,474 6 5	987,954 11 4	1,501,428 17 9
WATERWORKS DISTRICTS.			
Axe Creek	7 4 1	15 17 1	23 1 2
Bellarine Peninsula	62 18 3	39 9 2	102 7 5
East Loddon	1,327 10 10	2,832 8 5	4,159 19 3
Harcourt	41 14 9	91 17 3	133 12 0
Kerang - North West Lakes	37 12 11	137 16 4	175 9 3
Mallee	4,645 7 6	9,777 7 0	14,422 14 6
Millewa	..	2,055 17 7	2,055 17 7
Mornington Peninsula	3,426 14 7	20,019 1 2	23,445 15 9
Normanville	41 7 11	883 0 1	924 8 0
Northern Mallee	1,297 4 11	1,621 5 2	2,918 10 1
Otway	171 16 8	564 3 9	736 0 5
Tyntynder North	21 9 6	111 19 10	133 9 4

## CAPITAL EXPENDITURE—continued.

STATEMENT OF MONEYS EXPENDED UNDER WATER SUPPLY LOAN ACTS FOR THE YEAR ENDED  
30TH JUNE, 1963—continued.

WORKS.	Water Supply Loan Funds.		
	Act 6820.	Act 6934.	Total.
	£. s. d.	£. s. d.	£. s. d.
WATERWORKS DISTRICTS - continued.			
Upper Wimmera	1,453 11 7	2,005 12 11	3,459 4 6
Werribee	1 14 0	5 9 10	7 3 10
West Loddon	51 0 1	637 6 2	688 6 3
Wimmera	11,860 2 1	16,422 1 0	28,282 3 1
Total	24,447 9 8	57,220 12 9	81,668 2 5
URBAN DISTRICTS.			
Allansford	60 1 0	299 9 5	359 10 5
Anglesea	269 17 11	10,389 19 2	10,659 17 1
Barwon Heads - Ocean Grove	1,323 19 8	9,243 8 8	10,567 8 4
Baxter - Pearceedale	10,646 2 0	9,392 1 9	20,038 3 9
Berrillock	328 4 0	434 16 11	763 0 11
Berwick	556 17 10	15,441 0 8	15,997 18 6
Beulah	2,132 15 2	859 5 9	2,992 0 11
Birchip	73 16 0	2,067 18 0	2,141 14 0
Birregurra	57 16 1	6 2 8	63 18 9
Bittern - Crib Point	37 2 2	167 10 1	204 12 3
Brim	24 4 8	133 8 11	157 13 7
Bunyip	153 12 1	438 6 11	591 19 0
Camperdown	288 7 0	990 19 0	1,279 6 0
Carum Downs	66 4 7	110 16 6	177 1 1
Chelsea - Frankston	12,148 4 1	22,875 13 3	35,023 17 4
Chillingollah	1 7 9	291 9 7	292 17 4
Chinapook	7 19 7	78 9 8	86 9 3
Cobden	395 10 7	12,299 16 9	12,695 7 4
Coliban	66,756 17 6	113,148 14 9	179,905 12 3
Cranbourne	2,583 7 3	1,945 8 0	4,528 15 3
Culgoa	..	137 16 0	137 16 0
Dandenong - Springvale	973 19 0	6,353 10 1	7,327 9 1
Dimboola	21 18 0	420 4 8	442 2 8
Dingee	..	370 16 2	370 16 2
Dromana - Portsea	117,690 6 2	155,652 10 4	273,342 16 6
Drysdale	394 18 9	903 0 1	1,297 18 10
Eildon	0 10 0	..	0 10 0
Elphinstone	210 15 8	41 13 3	252 8 11
Garfield	246 15 5	128 8 8	375 4 1
Gunbower	6 0 0	..	6 0 0
Hampton Park	1,196 12 4	1,120 8 7	2,317 0 11
Hastings	44 7 1	1,139 12 7	1,183 19 8
Heyfield	87 19 0	419 14 5	507 13 5
Hopetoun	1,045 11 7	3,625 1 4	4,670 12 11
Indented Head - St. Leonards	630 18 3	17,924 13 10	18,555 12 1
Jeparit	9,073 5 5	6,764 3 0	15,837 8 5
Jung Jung	..	1,241 15 5	1,241 15 5
Koondrook	Cr. 2 13 2	..	Cr. 2 13 2
Lake Boga	130 0 0	3,475 6 3	3,605 6 3
Lalbert	41 11 11	4 0 0	45 11 11
Lascelles	..	34 2 10	34 2 10
Leitchville	798 0 8	746 7 10	1,544 8 6
Leopold	40 14 2	85 3 4	125 17 6
Lockington	145 1 8	818 5 2	963 6 10
Longwarry	55 2 5	570 3 7	625 6 0
Manangatang	..	3 10 0	3 10 0
Marnoo	38 13 3	69 16 8	108 9 11
Karong	0 3 11	0 8 7	0 12 6
Merbein	80 14 1	8 0 0	88 14 1
Minyip	153 3 0	319 2 11	472 5 11
Mornington	9,860 12 8	17,073 16 9	26,934 9 5
Nandaly	..	6 10 1	6 10 1
Nar Nar Goon - Tynong	1,461 2 9	393 3 10	1,854 6 7
Narre Warren	6,755 14 6	1,400 17 3	8,156 11 9
Newstead	..	428 0 11	428 0 11
Nullawill	..	100 1 2	100 1 2
Nyah	826 8 5	1,133 16 11	1,960 5 4
Nyah West	349 1 8	346 10 9	695 12 5
Officer	752 8 11	268 16 3	1,021 5 2
Ouyen	328 19 9	1,025 9 8	1,354 9 5
Pakenham	824 8 4	801 16 1	1,626 4 5
Piangil	2 2 0	700 7 0	702 9 0
Pimpinio	..	39 8 5	39 8 5
Portarlington	419 6 8	1,124 18 9	1,544 5 5
Pyramid Hill	29 8 5	1,037 10 0	1,066 18 5
Quambatook	6 0 0	317 6 6	323 6 6
Queenscliff - Pt. Lonsdale	1,114 0 11	1,134 19 10	2,249 0 9
Rainbow	5,721 11 8	7,734 5 2	13,455 16 10
Red Cliffs	20 8 7	613 13 4	634 1 11
Robinvale	226 3 7	693 2 11	919 6 6
Rupanyup	29 4 11	114 15 2	144 0 1

## CAPITAL EXPENDITURE—continued.

STATEMENT OF MONEYS EXPENDED UNDER WATER SUPPLY LOAN ACTS FOR THE YEAR ENDED  
30TH JUNE, 1963—continued.

WORKS.	Water Supply Loan Funds.		
	Act 6820.	Act 6934.	Total.
	£. s. d.	£. s. d.	£. s. d.
URBAN DISTRICTS - continued.			
Sea Lake	2,356 12 9	799 8 3	3,156 1 0
Somerville	78 6 7	1,008 8 6	1,086 15 1
South Frankston	6,803 2 5	63,164 18 8	69,968 1 1
Stanhope	1 19 5	201 17 9	199 18 4
Terang	84 10 8	667 7 9	751 18 5
Torquay	182 4 2	768 18 2	951 2 4
Tyabb	44 16 9	127 9 8	172 6 5
Ultima	12 7 6	596 5 3	608 12 9
Walpeup	19 10 6	9 10 1	29 0 7
Watcham	..	151 16 9	151 16 9
Wonthaggi	3,875 2 6	1,572 0 2	5,447 2 8
Woomelang	90 4 10	212 13 8	302 18 6
Woorinen	175 2 5	61 13 10	236 16 3
Wycheproof	435 15 6	1,334 12 7	1,770 8 1
Total	273,899 16 5	510,158 19 10	784,058 16 3
DRAINAGE DISTRICT.			
Carrum	9,335 17 6	41,696 5 3	51,032 2 9
Total	9,335 17 6	41,696 5 3	51,032 2 9
FLOOD PROTECTION DISTRICT.			
Koo-wee-rup	25,268 0 6	38,733 5 7	64,001 6 1
Total	25,268 0 6	38,733 5 7	64,001 6 1
WORKS UNDER GENERAL SUPERVISION.			
Waterworks Trusts and Local Governing Bodies	491,636 11 5	1,587,306 18 9	2,078,943 10 2
River Improvement Trusts	22,716 11 8	210,298 15 8	233,015 7 4
Lalrobie Valley	126,252 5 6	215,263 8 7	341,515 14 1
Total	640,605 8 7	2,012,869 3 0	2,653,474 11 7
Grand Total	2,411,483 7 1	5,552,759 2 11	7,964,242 10 0
SUMMARY.			
Ordinary Loan Funds (Acts 6820 and 6934)			£. s. d.
Treasurers Advance - Waterworks Trusts and Local Governing Bodies			7,964,242 10 0
Salt Affected Lands (Acts 6413/6604)			85,830 10 10
			3,813 4 3
			8,053,886 5 1
COUNTRY SEWERAGE AUTHORITIES.			
Water Supply Loan Application Act 6820 Part VII.			89,607 18 7
Water Supply Loan Application Act 6820 Part IX.			55,500 5 11
Water Supply Loan Application Act 6934 Part VII.			201,694 2 4
Water Supply Loan Application Act 6934 Part IX.			63,061 12 0
			409,863 18 10

## CAPITAL EXPENDITURE—continued.

CAPITAL EXPENDITURE ON WORKS OF COUNTRY WATER SUPPLY AS AT 30TH JUNE, 1963.  
RECONCILIATION STATEMENTS.

## (A) LOAN

Net Loan Capital as per Annual Report

	£.	s.	d.	£.	s.	d.
Total Loan Expenditure (Finance page 99)				141,252	491	11 7
Add -						
Discount and Expenses Less Premiums Country Water Supply (Finance pages 98 and 99)	2,663,883	6	4			
Loan Expenditure Geelong Works	441,152	1	8	3,105,035	8	0
				144,357,526	19	7
Less -						
Redemption -						
State Loans Repayment Fund, &c., (Finance pages 99 and 100)	5,676,906	2	11			
Paid to Consolidated Revenue	1,245,779	6	5	6,922,685	9	4
				137,434,841	10	3
Net Loan Capital as per Annual Report				137,434,841	10	3

## (B) UNEMPLOYMENT RELIEF FUNDS

Expenditure from Unemployment Relief Taxation Funds				314,362	0	0
Unemployment Relief Loan Funds (Finance 1942-43, page 140)				2,788,118	0	0
Commonwealth - State Joint Loan Fund (Winter Relief)				85,012	0	0
Commonwealth Grants (Flood Restoration)				43,558	0	0
Total expenditure in accordance with Employment Council Allocations, 6th February, 1943.				3,231,050	0	0
Deduct Maintenance Expenditure				370,303	0	0
Capital Expenditure from Unemployment Relief Funds, as above				2,860,747	0	0

## STATEMENT OF CAPITAL EXPENDITURE ON WORKS OF COUNTRY SEWERAGE AUTHORITIES

Expenditure as at 30th June, 1957, Act 5746 (Sewerage Act)				1,113,357	6	5
Expenditure as at 30th June, 1962, Water Supply Loan Application Act				3,057,481	8	5
Expenditure 1962-63 -						
Act 6820	145,108	4	6			
Act 6934	264,755	14	4	409,863	18	10
Total as at 30th June, 1963				4,580,702	13	8
Expenditure at Debit of Authorities, Act 5746 (Sewerage Act)	1,024,805	3	8			
Expenditure at Debit of Authorities, Water Supply Loan Application Acts	2,439,671	12	10	3,464,476	16	6
Amounts transferred by Order in Council to Expenditure Borne by the State Account -						
Sewerage Act	88,552	2	9			
Water Supply Loan Application Acts	1,027,673	14	5	1,116,225	17	2
				4,580,702	13	8

## EILDON SEWERAGE DISTRICT

Amounts transferred from Country Sewerage Authorities				103,800	0	0
Less Redemption paid to Consolidated Revenue				2,449	15	3
				101,350	4	9
Expenditure at Debit of District	72,790	4	9			
Expenditure Borne by the State Account	28,560	0	0	101,350	4	9

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

### CAPITAL EXPENDITURE, 1962-63.

	£. s. d.	£. s. d.
Expenditure during the year on Capital Works of Water Supply - From Ordinary Loan Funds		7,964,242 10 0

### LOAN CAPITAL LIABILITY.

Net Loan Liability of State for Works of Country Water Supply at 30th June, 1963.		125,185,579 16 2
Represented by -	£. s. d.	
Works at Debit of Authorities -		
Commission Districts	8,357,271 6 5	
Water Supply Plant and Machinery Account	1,553,141 18 8	
Plant Workshops	17,257 8 0	
Waterworks Trusts and Local Governing Bodies	11,867,362 4 3	
River Improvements	267,542 18 3	
Latrobe Valley	5,095,645 19 4	27,158,221 14 11
Capital Expenditure Borne by the State -		
Capital Works and Charges	7,316,616 17 6	
State Works of Water Supply	1,280,451 5 7	
Headworks and Distributary Works	94,423,562 1 11	
Waterworks Trusts and Local Governing Bodies	5,694,094 11 6	
Free Grants to Local Authorities in early years	142,356 4 11	
River Improvement Trusts	1,365,052 1 1	
Latrobe Valley	54,486 12 10	110,276,619 15 4
Net Loan Capital Liability of Commission's Districts and Works under Control of the Commission		137,434,841 10 3
Less Amount from National Debt Sinking Fund, being the difference between redemption recoup contributions paid by Districts, Waterworks Trusts, &c. (£1,245,779-6-5) and the amount (£13,495,041-0-6) contributed from Consolidated Revenue to the National Debt Sinking Fund (Finance pages 98 & 99)		12,249,261 14 1
Net Liability Country Water Supply Capital Account in Treasury		125,185,579 16 2

### INTEREST AND EXCHANGE.

The Total Interest on the Loan Liability for 1962-63 is		5,948,157 15 6
To which is to be added -		
Exchange payable on Overseas Interest		214,910 19 1
Loan Conversion Expenses		3,695 9 10
		6,166,764 4 5
Interest Debitable to -		
Works at Debit of Authorities -		
Commission Districts	253,758 16 8	
Trusts	501,295 5 9	
Water Supply Plant and Machinery Account	47,417 6 7	802,471 9 0
Capital Expenditure Borne by the State -		
Capital Works and Charges	362,584 0 0	
State Works of Water Supply	50,724 0 0	
Headworks and Distributary Works not debited to Districts	3,865,971 6 6	
Waterworks Trusts and Local Governing Bodies	860,768 0 0	
Free Grants to Local Authorities in early years	5,639 0 0	5,145,686 6 6
		5,948,157 15 6
Exchange £214,910-19-1 and Loan Conversion Expenses, £3,695-9-10 not apportioned.		218,606 8 11
		6,166,764 4 5

STATEMENT OF CAPITAL EXPENDITURE ON WORKS OF COUNTRY WATER SUPPLY, AS FROM THE DATE OF  
INCORPORATION OF THE STATE RIVERS AND WATER SUPPLY COMMISSION (1ST MAY, 1906) TO  
30TH JUNE, 1963.

Year Ended 30th June	Expenditure under Water Supply Loans Application Acts		Capital Expenditure by Commission from Unemployment Relief Funds		Capital Expenditure under Water Supply Loans Application Acts and from Unemployment Relief Funds	
	During Year	Progressive Total at Close of Year	During Year	Progressive Total at Close of Year	During Year	Progressive Total at Close of Year
	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.
1906-1957 (a)	..	95,091,806 15 4	..	2,860,747 0 0	..	97,952,553 15 4
1958	6,922,072 0 3	102,013,878 15 7	..	2,860,747 0 0	6,922,072 0 3	104,874,625 15 7
1959	7,708,976 5 3	109,802,855 0 10	..	2,860,747 0 0	7,708,976 5 3	112,663,602 0 10
1960	7,085,215 6 10	116,888,070 7 8	..	2,860,747 0 0	7,085,215 6 10	119,748,617 7 8
1961	7,961,549 8 11	124,869,619 16 7	..	2,860,747 0 0	7,961,549 8 11	127,730,366 16 7
1962	7,874,234 12 10	132,743,854 9 5	..	2,860,747 0 0	7,874,234 12 10	135,604,601 9 5
1963	7,964,242 10 0	140,708,096 19 5	..	2,860,747 0 0	7,964,242 10 0	143,568,843 19 5

NOTE. - (a) Total expenditure from "Loans - Country Water Supply" to 30th June, 1906 as per pages 106-108, "Finance, 1905-6," £5,885,066 12s. 4d. For details of prior expenditure see page 97, Annual Report 1959-60.



LOAN CAPITAL ACCOUNTS.  
WORKS UNDER CONTROL OF COMMISSION.

The following statement gives a brief description, summary of Loan Capital expenditure under Loan Application Acts, and other particulars relative to the under-mentioned works :—

A.—CAPITAL WORKS AND CHARGES.

	Capital Charges Borne by Districts and Works.	Capital Charges Borne by the State Account.	TOTAL.	Totals as at 30th June, 1963.
	£. s. d.	£. s. d.	£. s. d.	£. s. d.
Geelong (Inclusive of Loan Flotation Expenses)		165,043 10 8	165,043 10 8	
Goulburn Levees		30,797 0 4	30,797 0 4	
Torrumbarry System (excluding Weir)		383,449 5 4	383,449 5 4	
Lang Lang River Works		48,543 8 9	48,543 8 9	
Surveys and Preliminary Investigations		671,181 4 11	671,181 4 11	
Loan Flotation Expenses		2,639,757 2 10	2,639,757 2 10	
River Improvements		19,475 13 5	19,475 13 5	
Bulk Store and Storeyard, South Melbourne, and Dymon-road Storeyard		16,433 19 8	16,433 19 8	
Water Supply Stores Suspense		1,206,000 0 0	1,206,000 0 0	
Plant and Machinery Suspense	1,553,141 18 8	..	1,553,141 18 8	
Central Plant Workshops, Bendigo (Land, Buildings, and Services £154,679.14.7; Equipment, £47,126.17.10; Residences, £50,095.11.5.)	16,941 4 3	234,960 19 8	251,902 3 11	
Plant Sub-depots, Kerang, £17,326.15.9; Tatura, £2,595.18.1; Kooweerup, £385.11.0.	316 3 9	19,992 1 1	20,308 4 10	
Commission Buildings, "Carlisle House" and Fine Arts Building, £9,703.15.10 (Cr.); Hydraulic Experimental Station, Werribee, £56,034.11. 0, including residences; Engineering Laboratory, Hawthorn, £202.16.1 (Cr.); Irrigation and other Branch residences, £69,730. 8.8; Central Administrative Offices, Toorak, £765,447. 0. 5; Land Purchase, £1,941.14.4.		883,247 2 6	883,247 2 6	
Little River Weir		11,585 2 10	11,585 2 10	
Tallangatta Township Removal		74,425 4 0	74,425 4 0	
Advances to State Electricity Commission for the Provision of Electricity Supply to Water Supply Works		21,104 9 2	21,104 9 2	
Lake Corangamite Drainage Project		482,061 10 10	482,061 10 10	
Mountain Areas Water Supply		390,000 0 0	390,000 0 0	
Central Gippsland - Salt Affected Lands - Act 6413/6604		13,883 8 3	13,883 8 3	
Buffalo Reservoir		4,675 13 3	4,675 13 3	
	1,570,399 6 8	7,316,616 17 6	8,887,016 4 2	8,887,016 4 2
			Carried Forward	8,887,016 4 2

LOAN CAPITAL ACCOUNTS—continued.

B.—STATE WORKS OF WATER SUPPLY.

CAPITAL COST OF WHICH IS CHARGEABLE TO CAPITAL EXPENDITURE BORNE BY THE STATE ACCOUNT.

	Totals as at 30th June, 1963.			
	£. s. d.			
	Brought forward			
	£.	s.	d.	
BROKEN RIVER WORKS. — Casey's Weir and offtake, with about 59 chains of channel to Broken Creek; Gowangardie Weir with offtake sluice.	22,682	4	5	
GOULBURN RIVER WORKS. — Weir on the Goulburn River, about 9 miles above Murchison; channel therefrom, about 23½ miles to Waranga Reservoir; and that Reservoir (but exclusive of the work of its enlargement).	738,472	7	4	
KERANG NORTH-WEST LAKES WORKS. — Weir on the Loddon River at its confluence with the Pyramid Creek; regulating weirs at the effluence from the Loddon of the Sheepwash and Washburn Creeks; channel from the Washburn Creek regulator to Beady Lake, Middle Lake, Third Lake, Lake Ochem, Racecourse Lake, Cullens Lake, Rangroo Lake, and Lake Titchetop, and to the Little Murray River, with water storage works at these lakes.	26,671	12	10	
KOW SWAMP WORKS. — Intake from the River Murray with regulator, at the effluence of the Gunbower Creek; channel thence to the Kow Swamp Reservoir; and that Reservoir; channel along the northern side of the reservoir; channel from the outlet of the reservoir, about 2½ miles, to the left bank of the Loddon River	231,486	13	5	
LAKE LONSDALE RESERVOIR. — Reservoir at Lake Lonsdale, on the Little Wimmera River, near Ledcourt.	50,207	16	1	
LONDON RIVER WORKS. — Loanecorie Weir, on the Loddon; Bridgewater Weir, on the Loddon; Kinypaniel Weir, on the Loddon.	174,961	0	10	
LONG LAKE PUMPING WORKS. — Inlet to Lake Baker, from the Little Murray River; water storage works at Lake Baker and Long Lake with channel connecting these lakes; pumping plant at Long Lake with rising main thence about 7 miles to allotment 10M, Parish of Koonen; system of main distributory channels about 85 miles in length.	27,305	18	5	
LOWER WIMMERA COMPENSATION WORKS. — Drung Drung Weir on the Wimmera, near allotment 29, Parish of Longerenong; Dimboola Weir, on the Wimmera, near Dimboola township; Antwerp Weir, on the Wimmera at Antwerp Station homestead; Jeparit Weir, on the Wimmera, near Jeparit township.	8,663	12	3	
	Carried forward			
	1,280,451	5	7	
	10,167,467	9	9	

LOAN CAPITAL ACCOUNTS—continued.

C.—HEADWORKS.

IN RESPECT OF IRRIGATION DISTRICTS AND WATERWORKS DISTRICTS.

	Totals as at 30th June, 1963.		
	£.	s.	d.
GOULBURN, LODDON AND CAMPASPE STORAGES -			
Investigations	7,452	15	2
Eildon Reservoir	1,863,063	1	3
Epinalock Reservoir (Under construction - not apportioned to Districts)	26,425,891	15	3
Cairn Curran Reservoir	3,948,078	6	2
Tullaroop Dam	3,628,934	12	2
Waranga Reservoir Enlargement	1,895,478	17	7
Goulburn Weir Improvements	615,125	15	7
Kerang North-West Lakes Improvements	19,679	18	4
Kow Swamp Improvements	1,472	17	6
Leanecoorie Weir Improvements	7,875	16	4
Loddon Weir Improvements	33,879	0	1
	2,018	8	3
	38,448,951	3	8
GOULBURN MAIN CHANNELS -			
East Goulburn Main	3,667,924	16	4
Stuart Murray Canal	77,716	6	5
Cattinach Canal	2,147,838	8	1
Waranga Western Main	1,089,403	18	10
Waranga Western Main Channel Enlargement	79,974	3	6
Main Distributories	87,989	8	3
Goulburn System Enlargement	1,023,629	17	2
	8,164,476	18	7
	46,613,428	2	3
	157,051	7	4
Total Goulburn, Loddon and Campaspe Works	46,456,376	14	11
Less Debited to Mimmera-Mallee			
BACCHUS MARSH AND WERRIBEE SYSTEM -			
Ballan Tunnel and Fykes Creek Reservoir, £170,704 16 9; Melton Reservoir and Lerderderg River Flats, £128,414 15 6; Central Highlands Development Project, £283,901 16 7; Heburns Lagoon, £11,252 18 10; Gorge to Gorge Scheme, £26,790 6 5.			
	701,064	14	1
KAPPA - SALE SYSTEM -			
Glenmaggie Reservoir (includes Expenditure on Enlargement), £809,523 16 4; Kaffra Weir, £181,016 2 5.			
RIVER MURRAY AGREEMENT WORKS (Victorian Contributions under River Murray Waters Act)	1,677,178	13	8
RIVER MURRAY AGREEMENT WORKS - HUME RESERVOIR ENLARGEMENT, &c., (Not Apportioned to Districts)	2,990,745	13	8
RIVER MURRAY STATE WORKS - SURVEY &c., (Including £3,858 12 2, Not Apportioned to Districts)	2,490,200	0	0
MORNINGTON PENINSULA SYSTEM (Exclusive of Cost of Distributory Works and Urban Reti-culation)	11,365	10	9
BELLARINE PENINSULA SYSTEM (Exclusive of Cost of Distributory Works and Urban Reti-culation)	5,328,388	2	1
OTWAY SYSTEM (Exclusive of Cost of Urban Reti-culation)	488,376	1	0
WINNEKA-MALLEE SYSTEM (Inclusive of £157,051 7 4 from Goulburn, Loddon and Campaspe Works, and £216,231 4 2, Lake Bellfield Reservoir, under Construction - Not Apportioned to Districts)	754,581	5	0
	4,672,425	16	8
Total	65,570,702	11	10
Less Apportioned to Districts	58,912,334	9	4
Handworks Costs Not Yet Apportioned to Districts			
	6,658,768	2	6
	16,825,835	12	3



### F.—URBAN DISTRICTS.

35,411	15	7	7	8	45,725	10	3	24,180	8	9	21,027	19	1	511	2	5	21,545	1	6
30,958	5	6	6	2	130,230	18	0	117,909	1	7	451	3	5	11,870	13	0	12,321	16	2
106,674	17	0	2	2	712	13	2	247	6	10	465	6	4	10,567	6	4	4,465	6	6
..	..	..	..	..	175,876	17	2	162,573	6	8	2,736	2	2	41,082	10	0	13,303	10	6
..	..	..	..	..	41,082	10	0	..	..	..	..	..	..	6,054	15	0	41,082	10	0
70,606	5	1	..	..	9,035	16	2	2,981	1	1	35,626	6	7	16,047	4	3	51,674	4	10
..	..	..	..	..	121,337	8	11	69,663	8	1	..	..	..	10,491	18	4	10,491	18	4
..	..	..	..	..	20,182	12	4	9,690	14	0	..	..	..	2,828	10	6	2,828	10	6
..	..	..	..	..	21,294	2	9	18,465	12	3	..	..	..	184	6	3	364	11	2
..	..	..	..	..	35,670	7	9	35,305	16	7	..	..	..	278	14	10	26,391	19	4
12,756	11	6	6	6	83,918	8	6	57,526	9	2	180	4	11	12,671	14	5	12,671	14	5
54,856	4	5	5	5	13,004	2	11	332	8	6	26,113	4	6	481	2	8	46,629	3	10
..	..	..	..	..	64,597	10	4	17,968	6	5	46,148	1	2	12,899	1	2	50,693	6	4
..	..	..	..	..	180,072	10	4	129,379	4	0	37,794	5	2	11,427	2	8	31,806	19	2
..	..	..	..	..	53,675	18	8	21,868	14	0	20,379	16	6	635	19	0	635	19	0
..	..	..	..	..	635	19	0	1,406,995	2	7	284,874	1	0	37,095	3	8	321,969	4	8
..	..	..	..	..	1,728,960	7	3	2,889	1	3	..	..	..	292	17	4	282	17	4
..	..	..	..	..	3,181	18	7	..	..	..	..	..	..	3,522	12	6	3,522	12	6
..	..	..	..	..	3,522	12	6	54,067	18	2	17,725	3	0	11,162	2	10	28,687	3	10
..	..	..	..	..	82,995	4	0	288,453	11	9	..	..	..	3,962	386	12	3,962	386	12
..	..	..	..	..	4,250,840	3	10	..	..	..	..	..	..	4,375	16	10	49,378	10	10
..	..	..	..	..	3,715	16	10	..	..	..	..	..	..	4,101	16	11	49,378	10	10
..	..	..	..	..	89,187	1	4	39,237	17	4	45,818	0	9	7,727	2	3	15,961	17	8
..	..	..	..	..	3,300	5	2	3,688	9	4	8,235	5	1	7,727	2	3	15,961	17	8
..	..	..	..	..	468,593	12	2	45,168	4	0	..	..	..	7,442	2	6	2,436	2	6
..	..	..	..	..	23,692	10	0	23,692	7	4	..	..	..	2,236	5	2	2,236	5	2
..	..	..	..	..	2,236	5	2	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	2,682	4	9	682	4	9	..	..	..	..	..	..	..	..	..
..	..	..	..	..	3,146,747	15	1	1,282,730	17	6	1,569,162	15	1	294,884	2	6	1,864,046	17	7
1,569,162	15	1	1	1	36,259	2	11	34,329	13	9	1,297	18	10	1,297	18	10	1,929	9	2
24,741	10	3	..	..	78,991	3	0	71,990	13	0	7,000	10	4	7,000	10	0	7,000	10	0
..	..	..	..	..	78,991	3	0	..	..	..	7,224	2	8	7,224	2	8	7,224	2	8
..	..	..	..	..	7,224	2	8	..	..	..	317	14	1	317	14	1	28,249	2	4
39,265	10	6	6	6	5,405	11	5	16,421	19	7	27,931	8	3	0	18	0	0	18	0
..	..	..	..	..	14,832	10	7	14,831	12	7	..	..	..	39,138	7	6	67,672	15	6
..	..	..	..	..	67,672	15	6	..	..	..	28,534	8	0	1,218	11	11	12,248	6	5
28,534	8	0	0	0	89,481	6	2	77,232	19	0	11,029	14	6	4,644	6	9	4,644	6	9
6,848	3	2	2	2	56,988	1	9	36,465	3	4	6,564	15	9	6,564	15	9	6,564	15	9
..	..	..	..	..	43,029	19	1	89,887	10	0	18,555	12	1	18,555	12	1	42,955	7	9
..	..	..	..	..	101,885	7	1	132,822	17	9	24,379	15	8	15,837	8	5	15,837	8	5
30,937	10	8	8	8	30,264	4	11	14,426	16	6	..	..	..	8,598	14	5	8,598	14	5
..	..	..	..	..	8,600	6	11	..	..	..	..	..	..	10,222	0	1	10,222	0	1
..	..	..	..	..	10,222	0	1	..	..	..	..	..	..	10,576	6	7	10,576	6	7
..	..	..	..	..	10,671	17	10	..	..	..	..	..	..	7,132	16	10	7,132	16	10
..	..	..	..	..	7,287	0	11	..	..	..	..	..	..	5,247	8	6	5,247	8	6
..	..	..	..	..	0,265	12	2	7,186	10	2	..	..	..	1,247	6	6	1,247	6	6
..	..	..	..	..	3,169	7	9	1,866	19	0	211	9	11	1,234	17	6	1,234	17	6
12,035	4	0	0	0	9,163	7	9	17,538	18	7	..	..	..	1,632	19	2	1,632	19	2
..	..	..	..	..	2,423	13	5	34,817	13	9	42,592	3	10	1,659	19	3	43,252	3	2
69,992	3	5	5	5	2,423	13	5	..	..	..	..	..	..	2,423	13	5	2,423	13	5
..	..	..	..	..	11,411	15	2	2,365	2	7	9,793	1	1	9,793	1	1	9,793	1	1
..	..	..	..	..	4,400	14	3	1,618	14	1	2,035	11	8	2,035	11	8	2,035	11	8
..	..	..	..	..	4,712	4	2	21	11	7	4,690	12	7	4,690	12	7	4,690	12	7
..	..	..	..	..	4,712	4	2	..	..	..	88	14	1	88	14	1	88	14	1
..	..	..	..	..	31,523	4	11	31,434	10	10	4,563	14	9	4,563	14	9	4,563	14	9
..	..	..	..	..	4,568	0	1	1,474	4	5	1,969	2	4	1,969	2	4	1,969	2	4
..	..	..	..	..	14,734	0	6	12,764	18	6	..	..	..	4,557	6	6	4,557	6	6
..	..	..	..	..	4,557	6	6	4,557	6	6	..	..	..	29,504	12	7	29,504	12	7
494,646	6	11	..	..	905,475	15	6	813,858	12	4	62,112	10	7	..	..	..	91,617	3	2
..	..	..	..	..	1,382	0	8	..	..	..	1,382	0	8	..	..	..	1,382	0	8

96,469,259 4 11

Carried forward



G.-FLOOD PROTECTION DISTRICTS.

Kanyapella Kowesrup Loch Garry	..	3,893 11 0	3,893 11 0	..	..	3,893 11 0	3,893 11 0
	..	885,047 19 4	885,047 19 4	..	..	885,047 19 4	885,047 19 4
	..	20,406 12 9	20,406 12 9	..	..	20,406 12 9	20,406 12 9
Totals	..	909,348 3 1	909,348 3 1	..	..	909,348 3 1	909,348 3 1

H.-DRAINAGE DISTRICT.

Carrum	..	614,784 9 11	614,784 9 11	198,097 4 4	..	416,687 5 7	416,687 5 7
	..	614,784 9 11	614,784 9 11	198,097 4 4	..	416,687 5 7	416,687 5 7
Totals							
Totals, Commission Districts (State- ments D, E, F, G, and H.)							
	58,912,734 9 4	37,210,130 16 6	96,122,465 5 10	8,357,271 6 5	155,451,258 9 8	32,313,935 9 9	87,765,193 19 5
						Carried forward	
						112,948,300 18 1	

LOAN CAPITAL ACCOUNTS—continued.

	Totals as at 30th June, 1963.		
	£.	s.	d.
Brought forward	112,948,300	18	1
WORKS UNDER GENERAL SUPERVISION OF COMMISSION.			
I.—WATERWORKS TRUSTS AND LOCAL GOVERNING BODIES.			
	£.	s.	d.
Waterworks Trusts, First Kidura Irrigation, and Local Loan Liability			
Amounts Written Off and Free Grants to Local Authorities as at 30th June, 1962. (For Details see Annual Report for year 1961-62).	5,150,285	19	5
Under Act 1961, 6820. Amounts transferred to State Account £375,730 6s. 2d.; Grants to Local Authorities £852 9s. 6d.	376,582	15	8
Under Act 1962, 6934. Amounts transferred to State Account £308,426 9s. 11d.; Grants to Local Authorities £1,197 ls. 5d.	379,623	11	4
	5,836,492	6	5
Less Repayments to State Loans Repayments Fund	41	10	0
	5,836,450	16	5
	17,703,813	0	8
J.—RIVER IMPROVEMENT TRUSTS.			
River Improvement Trusts and other Public Authorities pursuant to Part IV of the River Improvement Act 1948.			
Amounts Borne by the State Account as at 30th June, 1962.	1,206,913	13	8
Under Act 1961, No. 6820. Amounts transferred to State Account.	82,920	0	0
Under Act 1962, No. 6934. Amounts transferred to State Account.	75,218	7	5
	267,542	18	3
	1,365,052	1	1
	1,632,594	19	4
K.—LATROBE VALLEY.			
Works of Water Supply			
Amounts Borne by the State Account as at 30th June, 1962.	4,782	2	8
Under Act 1961, No. 6820. Amounts transferred to State Account.	29,743	18	6
Under Act 1962, No. 6934. Amounts transferred to State Account.	19,960	11	8
	54,486	12	10
	5,150,132	12	2
Grand Total Net Loan Liability (Exclusive of Equity in National Debt Sinking Fund)	137,434,841	10	3



SUMMARY STATEMENT OF LOAN CAPITAL ACCOUNTS AS AT 30th JUNE, 1963.

Reference to Preceding Statements.	WORKS.	Capital Works and Charges and State Works of Water Supply.	Headworks.	Distributory Works.	Total Loan Capital Expenditure.	Deduct Redemption and Repayments.	Net Loan Capital Liability.	At Debit of Authorities and Bodies by Districts.	Capital Expenditure Borne by the State.
A	Capital Works and Charges	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.	£. s. d.
B	State Works of Water Supply	9,996,335 3 3	.. ..	.. ..	9,996,335 3 3	1,109,318 19 1	8,887,016 4 2	1,570,399 6 8	7,316,616 17 6
C	Headworks Costs not yet apportioned	1,284,329 2 4	.. ..	.. ..	1,284,329 2 4	3,877 16 9	1,280,453 5 7	.. ..	1,280,453 5 7
D	Irrigation and Water Supply Districts	.. ..	6,685,590 8 1	.. ..	6,685,590 8 1	27,222 5 7	6,658,368 2 6	.. ..	6,658,368 2 6
E	Waterworks Districts	.. ..	49,900,774 19 2	22,815,739 14 9	72,716,514 13 11	2,584,754 13 2	70,131,760 0 9	189,050 0 0	69,942,710 0 9
F	Urban Districts	.. ..	6,031,780 3 11	3,619,099 1 6	9,650,879 5 5	139,255 13 6	9,511,623 11 11	802,238 6 4	8,709,385 5 7
G	Flood Protection Districts	.. ..	5,296,779 13 4	10,587,040 16 4	15,883,820 9 8	728,911 9 6	14,954,909 0 2	7,167,895 15 9	7,787,013 4 5
H	Drainage District	.. ..	.. ..	919,873 10 9	919,873 10 9	10,525 7 8	909,348 3 1	198,097 4 4	709,251 3 7
				618,677 12 7	618,677 12 7	3,893 2 8	614,784 9 11		416,687 5 7
I	Total Works under control of Commission	11,280,664 5 7	67,914,925 4 6	38,360,430 15 11	117,556,020 6 0	4,607,719 7 11	112,948,300 18 1	9,927,670 13 1	103,020,630 5 0
J	Waterworks Trusts and Local Governing Bodies	.. ..	.. ..	.. ..	19,294,820 3 5	1,591,007 2 9	17,703,813 0 8	11,867,362 4 3	5,936,450 16 5
K	River Improvement Trusts	.. ..	.. ..	.. ..	1,656,463 6 1	3,868 6 9	1,652,594 19 4	267,542 18 3	1,385,052 1 1
	Latrobe Valley	.. ..	.. ..	.. ..	5,241,977 11 3	91,844 19 1	5,150,132 12 2	5,095,645 19 4	54,486 12 10
		.. ..	.. ..	.. ..	143,729,281 6 9	6,294,439 16 6	137,434,841 10 3	27,158,221 14 11	110,276,619 15 4

RECONCILIATION STATEMENT.

COUNTRY WATER SUPPLY AND STATE DEVELOPMENT ACCOUNTS IN THE BOOKS OF THE TREASURY WITH THE CAPITAL ACCOUNTS IN THE BOOKS OF THE COMMISSION AS AT 30TH JUNE, 1963.

	TOTAL.	Water Supply	State Development Account.
Net Loan Liability as per Treasurer's Finance Statement (page 99)	£. s. d.	£. s. d.	£. s. d.
Add -			
Cost of Geelong Works "Finance" (page 100)	125,068,651 10 1	25,649,178 12 6	99,419,472 17 7
National Debt Sinking Fund contributions from Consolidated Revenue pursuant to the provisions of the Commonwealth and State Financial Agreement Act 1927, No. 3554, as amended by Act No. 5051, 1944. "Finance" (page 99 ). (These amounts not credited to Districts and Works excepting recoup contributions shown below).	116,928 6 1		116,928 6 1
National Debt Sinking Fund contributions in respect of Geelong Works. "Finance" (page 100)	13,446,925 15 11	2,754,822 8 10	10,692,103 7 1
	48,115 4 7		48,115 4 7
Less -			
Redemption recoup contributions paid into Consolidated Revenue by Commission Districts and Works, Waterworks Trusts, &c.	138,580,620 16 8	28,404,001 1 4	110,276,619 15 4
	1,245,779 6 5	1,245,779 6 5	
Totals of Accounts at Debit of Authorities and Districts and the Capital Expenditure Borne by the State Account in the books of the Commission.	137,434,841 10 3	27,158,221 14 11	110,276,619 15 4

## CONTRACTS.

STATEMENT OF CONTRACTS ENTERED INTO DURING THE YEAR ENDED 30TH JUNE, 1963.

No.	Name of Contractor.	Work and Supply.	Amount.
			£.
3621	A. J. Young Constructions Pty.Ltd.	Erection of standard S.N.2 type Residence at Mornington	3,957
3622	L. K. Gundry	Erection of standard S.N.2 type Residence at Speed	4,351
3623	Elliott Automation Pty.Ltd.	Supply and Installation Flow Meters & Instruments Eppalock	1,918
3624	A.D. Hillgrove (Construction) Pty.Ltd.	Construction of Jeparit storage No.6.	7,529
3625	M. Diedrich	Erection of Residence, Toilet Block etc. Wangaratta	6,257
3626	L. K. Gundry	Erection of standard S.N.2 type Residence at Stanhope	4,699
3627	R. L. Harris	Erection of standard S.N.2 type Residence Lake Cullull- craine	4,479
3628	A.D. Hillgrove (Construction) Pty.Ltd.	Construction of Earthen Storage No.5 at Rainbow	5,630
3629	L. K. Gundry	Erection of standard S.N.2 type Residence, Bendigo	4,353
3630	Hoare and Kennedy Pty.Ltd.	Excavation and Laying 17,200 feet C.L.M.S. Pipe, Otway Supplementary Pipe Line	11,970
3631	M. Diedrich	Erection of standard S.N.2 type Residence at Harston	4,580
3632	L. S. Tilley	Erection of standard S.N.2 type Residence at Lancaster	4,683
3633	K. Vrendenburg	Erection of standard S.N.2D type Residence at Echuca	3,985
3634	J. J. Bazeley	Erection of standard S.N.2D type Residence at Rochester	3,727
3635	R. T. Burrage	Erection of standard S.N.2D type Residence at Tresco	4,500
3636	Welded Pipelines Pty.Ltd.	Internal and external welding 75,250 feet C.L.M.S. Pipes, Eppalock - Bendigo Pipeline	11,571
3637	M. Diedrich	Erection of standard S.N.2D type Residence at Harston	4,490
3638	J. F. Thomson Pty.Ltd.	Supply erection etc. 500,000 gallon steel tank at St. Leonards.	11,799
3639	Thompsons (Castlemaine) Ltd.	Supply and Installation of Electric Pumps, Campaspe Siphon	22,299
3640	J. F. Thomson Pty.Ltd.	Supply erection etc. 40,000 gallon steel tank at Lake Boga	2,387
3641	M. Diedrich	Erection of standard S.N.2D type Residence at Leitchville	4,550
3642	R. L. Harris	Erection of standard S.N.2D type Residence at Werbein	4,173
3643	A.D. Hillgrove (Construction) Pty.Ltd.	Construction of 13 million gallon Storage Tank Mt. Eliza	46,226
3644	R. F. Spalding	Erection of Fencing on East Goulburn 12 & 22/12 Channels	6,465
3645	Arthur Melville	Erection of 695 chains fencing East Goulburn Channel No.18	3,691
3646	Cakebread Construction Co. Pty.Ltd.	Excavation of open cut 2,140 feet Bittern Dromana Pipeline	8,099
3647	Arcweld Constructions Pty.Ltd.	Excavation laying etc. 13,600 C.L.M.S. pipe, Otway Supple- mentary Pipeline	15,588
3648	M. Diedrich	Construction Brick Toilet Block, Cobram	1,925
3649	M. Diedrich	Erection of standard S.N.2D type Residence at Elmore	4,270
3650	M. Diedrich	Erection of standard S.N.2D type Residence at Kerang	4,100
3651	R. McRae	Erection of fencing on East Goulburn Channel No.2	6,075
3652	J. and F. Steel	Raising of 11 mile Bridge over Bunyip River	1,969
3653	Rowlands Quarries Ltd.	Supply 30,000 yards Fine and Course filter material Devil- Bend	51,865

ESTIMATES, 1963-64.  
**PROPOSED DISBURSEMENTS.**

	Estimated Requirements.	Amount Provided in Budget.
	£	£
Salaries and Payments in the nature of Salary*	2,199,650	2,189,000
General Expenses*	595,000	531,050
Coliban Works	81,000	75,000
Irrigation Districts	1,100,000	890,000
Waterworks Districts	530,000	435,000
Flood Protection and Carrum Drainage Districts	41,000	38,000
Removal of Sand Drift	85,000	65,000
River Murray Works - Contribution by State	123,000	100,000
Subsidies to Waterworks Trusts, Local Governing Bodies and River Improvement Trusts where Interest is in excess of 3 per cent. on Loans raised under Act No. 6413	23,000	22,000
Subsidies to Waterworks Trusts and Local Governing Bodies to enable a reduction of 33½ per cent. to be made in Water Rates	600	600
Subsidies to Waterworks Trusts and Local Governing Bodies to limit the maximum Water Rate to 3s. 6d. in the Pound, N.A.V.	6,400	5,000
Total - Water Supply	4,784,650	4,350,650
Subsidies to Sewerage Authorities in cases where the interest paid on capital liability is in excess of the rate of 3 per cent.	350,000	330,000
Grand Total	5,134,650	4,680,650

\* To be apportioned over the Districts and Works.

**ESTIMATED RECEIPTS.**

		Amount Provided in Budget.
		£
Coliban Works		225,000
Irrigation Districts		1,775,000
Waterworks Districts		475,000
Urban Districts		725,000
Flood Protection and Carrum Drainage Districts		68,000
Sewerage Districts		8,000
Other		124,000
Recoup on account of amounts paid from Revenue in connexion with River Murray Commission, Loan Works, &c.		1,000,000
Sub-Total		4,400,000
Add Estimated Receipts to meet Interest and Redemption -	£	
Waterworks Trusts and Other Corporations	458,500	
Plant and Machinery and Land	57,500	
		516,000
Totals - Water Supply		4,916,000

Estimated amount available from Revenue of Commission -  
"Paying" Districts to meet Interest - 220,000

## RETURN OF WATER DELIVERED FOR IRRIGATION.

YEAR 1962-63.

Name of District, Area, etc.	Water Assignment Measured at District Boundaries.	Gross Supply District Offtakes (excluding volumes passed to other Districts).	Total Water Rights Allotted to District.	Users in District.			Total Delivered in District.	Users Outside District from District Channels.	Total Delivered.	Users Outside District from Main Channels and Natural Streams.
				Under Water Rights	Sales of Water.	Domestic and Stock Purposes.				
	ac.ft.	ac.ft.	ac.ft.	ac.ft.	ac.ft.	ac.ft.	ac.ft.	ac.ft.	ac.ft.	ac.ft.
<b>GOULBURN SYSTEM</b> (Eastern)										
South Shepparton	12,000	15,058	14,809	9,976	1,030	257	11,263	..	11,263	..
Shepparton	51,000	38,682	26,523	22,631	3,175	631	26,437	205	26,642	..
North Shepparton	44,000	76,352	36,448	30,505	13,366	958	44,829	..	44,829	82
Katandra	13,000	22,115	11,982	11,481	2,680	514	14,675	..	14,675	..
<b>TOTALS</b>	120,000	152,207	91,762	74,593	20,251	2,350	97,204	205	97,409	82
<b>(Western)</b>										
Rodney	232,000	267,070	135,175	122,305	36,961	b) 5,416	164,682	a) 1,392	166,074	..
Tongala-Stanhope	116,000	136,374	61,631	61,944	21,344	2,996	86,284	1,082	87,366	..
Deakin	23,000	20,816	14,667	10,258	4,781	734	15,773	2	15,775	..
Rochester	147,000	165,216	67,973	64,250	43,039	3,884	111,173	875	112,048	..
Dingee	9,000	11,206	4,938	4,878	3,396	310	8,584	180	8,764	..
Calivil	21,000	37,722	16,830	15,829	8,667	813	25,309	..	25,309	268
Tragowel Plains	97,000	125,275	54,719	51,803	21,699	2,272	75,774	219	75,993	..
Boort	35,000	57,528	29,016	28,181	8,848	1,221	38,250	253	38,503	..
Loddon	(k)	..	..	..	..	..	..	..	..	..
East Loddon	(k)	3,061	..	..	1,285	774	2,059	..	2,059	..
West Loddon	(k)	6,218	..	..	4,806	562	5,368	..	5,368	..
<b>TOTALS</b>	680,000	830,486	384,949	359,448	154,826	18,982	533,286	4,003	537,259	268
<b>GOULBURN GRAND TOTALS</b>	800,000	982,693	476,711	434,041	h) 175,077	21,342	630,460	4,208	634,668	350
<b>MURRAY SYSTEM</b>										
(Yarrowonga Weir)										
Murray Valley	276,000	279,758	115,995	111,228	1) 59,473	5,923	176,624	96	176,720	..
(Torrumbarry Weir)										
Cohuna	122,000	143,239	50,737	50,411	33,497	2,848	86,756	95	86,851	..
Koonbrook	70,000	78,404	24,836	24,595	14,204	1,419	40,218	163	40,381	..
Kerang	71,000	63,985	22,182	21,516	19,744	1,978	43,238	430	43,668	..
Third Lake	6,000	8,242	2,623	2,513	1,646	131	4,290	73	4,363	..
Mystic Park	7,000	7,677	3,113	2,754	1,635	117	4,506	87	4,593	..
Tresco	8,000	5,422	3,662	2,657	105	38	2,800	..	2,800	..
Fish Point	5,000	4,626	1,845	1,762	713	103	2,578	..	2,578	..
Swan Hill	63,000	59,421	26,205	26,927	8,148	1,750	36,865	183	37,048	..
Pental Island Private Diversions	..	..	..	..	..	..	..	..	..	5,088
Kerang Private Diversions	..	..	..	..	..	..	..	..	..	1,286
Kerang N. W. Lakes Private Diversions	..	..	..	..	..	..	..	..	..	5,547
Upper Gunbower Ck. Private Diversions	..	..	..	..	..	..	..	..	..	7,338
Lower Gunbower Creek Private Diversions	..	..	..	..	..	..	..	..	..	10,117
Taylor's Creek Private Diversions	..	..	..	..	..	..	..	..	..	1,631
Kow Swamp Private Diversions	..	..	..	..	..	..	..	..	..	2,468
Pyramid Creek Private Diversions	..	..	..	..	..	..	..	..	..	4,517
<b>TORRUMBARRY WEIR TOTAL</b>	352,000	371,016	137,203	133,175	j) 79,692	8,384	221,251	1,031	222,282	37,992
(Pumped from River Murray)										
Nyah	12,000	9,537	7,112	6,247	460	100	6,807	b) 62	6,869	..
Robinvale	21,000	15,254	14,149	12,845	* 1,097	..	13,942	..	13,942	..
Red Cliffs	5,000	34,696	34,532	28,532	1,639	..	30,171	217	30,388	..
Merbein	33,000	28,631	24,071	24,034	1,102	282	25,418	..	25,418	..
<b>TOTALS</b>	116,000	88,118	79,864	71,658	4,298	382	76,338	279	76,617	..
<b>First Mildura Trust</b>	(k)	47,024	47,166	34,188	10,948	180	45,316	83	45,399	..
<b>MURRAY GRAND TOTALS</b>	744,000	785,916	380,226	350,249	154,411	14,869	519,529	1,489	521,018	37,992
<b>CAMPASPE SYSTEM</b>										
Coliban	..	27,991	..	..	e) 11,687	b) 79	11,766	..	11,766	..
Campaspe	(k)	5,572	..	..	1,581	132	1,713	26	1,739	..
<b>TOTALS</b>	..	33,563	..	..	13,268	211	13,479	26	13,505	..
<b>WERRIBEE SYSTEM</b>										
Bacchus Marsh	(k)	11,473	3,296	3,070	2,799	175	6,044	b) 1,146	7,190	..
Werribee	12,000	15,566	8,082	7,570	2,356	295	10,221	b) 225	10,446	..
<b>TOTALS</b>	12,000	27,039	11,378	10,640	5,155	470	16,265	1,371	17,636	..
<b>MACALISTER SYSTEM</b>										
Macalister	(k)	155,111	67,105	60,880	21,880	3,695	86,655	b) 910	87,565	..
<b>WIMMERA SYSTEM</b>										
Quantong, Riverside, Burnlea, Haven etc.	..	20,082	..	..	12,339	..	12,339	..	12,339	..
<b>PRIVATE DIVERSIONS (not included above)</b>	..	..	..	..	..	..	..	..	..	269,173
<b>GRAND TOTALS</b>	(1) 1,556,000	2,004,404	935,422	855,810	382,130	40,787	1,278,727	8,004	1,286,731	327,095
										<b>1,613,826</b>

Note:

- (a) Includes Waterworks Trust  
(b) Includes Urban Districts  
(c) Includes 2150 acre feet outfall to Broken Creek  
(d) Includes 6404 acre feet outfall to Broken Creek  
(e) Includes 106 acre feet for mining  
(f) Includes 2548 acre feet outfall from East Goulburn Main to Broken River  
(g) Includes 4366 acre feet outfall from East Goulburn Main to Nine Mile Creek  
(h) Includes 67782 acre feet supplementary sales  
(i) Includes 31658 acre feet supplementary sales  
(j) Includes 31980 acre feet supplementary sales  
(k) Not expressed in acre feet  
(l) Not including Campaspe, Bacchus Marsh, Macalister, Mildura, Loddon, East Loddon and West Loddon  
\* Includes 506 acre feet Sales at Special Rates.

APPENDIX B.

LANDS UNDER IRRIGATED CULTURE.  
EXTENT OF IRRIGATION AND AREAS WATERED-1962-63.

Name of District, Area, etc.	Total Area of Holdings in Irrigation Districts, in Acres.	Area classified as Irrigable within Constituted Districts, in Acres.	Water Rights Apportioned, including Extra Water Rights (Acre Feet).	Area Irrigated, including Lands adjoining a District, in Acres.										
				Total.	Cereals.	LucerneGrown for Pasture and Hay.	Sorghum and other Annual Fodder Crops.	Pastures.			Vineyards.	Orchards.	Market Gardens.	Fallow and Miscellaneous.
								Native.	Annual.	Perennial.				
GOULBURN-CAMPSPE-LODDON SYSTEM														
Katandra	15,506	12,762	11,962	6,464	35	97	10	..	1,888	6,454	..	..	..	..
North Shepparton	142,371	79,893	36,448	47,446	816	1,566	609	5,471	24,588	11,634	1	2,547	80	377
Shepparton	25,225	23,280	26,523	20,497	109	110	88	499	3,748	5,314	128	9,608	514	319
South Shepparton	41,872	27,426	14,809	11,732	46	376	240	10	7,801	2,769	14	357	99	18
Rodney	273,762	208,984	135,175	122,453	795	7,290	1,194	255	53,735	47,679	150	9,219	532	1,604
Tongala-Stanhope	76,101	66,360	61,631	50,503	152	226	229	..	15,443	33,244	..	1,071	43	91
Rochester	181,762	131,118	67,973	81,752	70	2,346	1,186	1,704	37,965	37,391	..	554	129	405
Dingee	8,889	6,754	4,938	4,454	12	..	30	..	1,252	3,160	..	..	..	..
Calival	61,140	46,053	16,630	19,406	306	748	1,368	1,125	10,591	4,957	..	..	6	285
Tragowel Plains	218,211	157,742	54,719	77,117	5,404	710	6,824	13,249	40,989	8,901	..	1	9	1,030
Deakin	161,044	36,666	14,667	16,941	3,799	410	125	191	7,514	3,443	..	40	102	1,317
Boort	97,741	62,572	29,016	45,080	3,819	3,219	1,565	2,472	25,203	3,684	..	..	..	5,118
Campaspe (Area)	26,714	..	..	555	..	301	11	..	..	171	..	..	61	11
Campaspe (District)	19,735	..	..	1,343	..	368	..	..	775	195	..	..	35	..
East Loddon	..	..	..	1,222	..	144	..	22	65	91	..	..	..	..
West Loddon	..	..	..	6,574	337	1,412	15	251	874	143	..	..	3	3,039
TOTALS	1,350,093	659,630	476,711	515,804	16,262	19,329	13,464	25,279	233,331	169,202	293	23,397	1,613	13,614
RIVER MURRAY SYSTEM														
(a) Torrumbarry Weir														
Cohuna	87,444	44,705	50,737	71,039	1,046	492	301	10,987	18,199	39,384	..	2	5	123
Koondrook	66,161	24,572	24,854	44,560	1,007	465	1,165	1,301	32,504	7,405	2	516	161	94
Swan Hill	37,279	22,297	28,205	22,295	90	768	56	213	4,363	11,331	2,957	608	776	513
Third Lake	11,677	4,742	2,623	4,916	123	129	62	..	234	4,366	..	2	..	..
Nystic Park	19,906	8,039	3,113	5,465	193	657	62	520	2,418	1,036	14	50	11	24
Tresco	4,652	1,763	3,062	1,545	..	..	..	37	8	..	1,212	242	46	..
Fish Point	16,362	3,756	1,845	3,206	73	101	65	302	2,295	370	..	..	..	..
Kerang	89,990	55,754	22,162	46,563	2,526	887	2,069	6,293	26,966	8,361	..	..	..	..
Kerang North-West Lakes	..	..	..	8,035	325	278	199	788	4,777	1,335	25	292	4	12
Private Diversions	..	..	..	40,698	724	995	410	1,960	21,556	13,053	1,279	376	55	670
TOTALS	357,471	165,668	137,203	250,622	6,607	4,792	4,369	22,021	114,420	86,641	5,489	2,088	1,058	3,117
(b) Yarrawonga Weir														
Murray Valley	301,141	207,025	115,995	116,925	2,115	7,398	1,310	2,268	59,895	36,310	40	6,280	413	696
(c) Direct from River by Pumping														
Nyah	3,833	2,596	7,112	3,656	11	8	..	252	58	260	1,967	187	108	1,005
Red Cliffs	13,612	11,306	34,532	11,705	..	40	..	25	..	60	10,840	695	45	..
Nurbein	9,233	7,706	24,071	6,427	..	107	16	25	51	132	7,148	889	19	..
Robinvale	9,085	5,629	14,149	4,860	..	..	..	..	..	..	4,222	220	418	..
TOTALS	35,763	27,239	79,864	28,848	11	155	16	302	149	452	24,177	1,991	590	1,005
(d) First Mildura Trust														
	45,000	15,589	47,166	15,540	..	392	120	..	..	..	12,626	921	..	481
RIVER MURRAY SYSTEM TOTALS														
	739,375	415,521	380,228	410,935	8,733	12,737	5,835	24,591	174,444	123,403	42,332	11,260	2,061	5,499
OTHER NORTHERN SYSTEMS														
Coliban	..	11,030	..	9,850	43	339	..	671	1,207	4,434	8	2,786	370	..
Western Wimmera	..	6,147	..	5,970	..	619	..	..	159	4,574	..	495	123	..
Wimmera United	..	1,072	..	966	..	313	..	..	648	..	..	..	5	..
TOTALS	..	18,219	..	16,794	43	1,271	..	671	2,014	9,008	8	3,281	498	..
SOUTHERN SYSTEMS														
Bacchus Marsh	6,682	3,285	5,296	3,408	..	349	..	123	..	1,971	..	363	596	6
Werrisbee	9,661	8,084	8,082	8,236	37	308	..	..	..	3,768	..	239	3,884	..
Maffra-Sale	76,040	46,416	39,694	35,981	95	179	405	1,145	796	33,165	..	..	27	169
Central Gippsland	54,896	35,534	27,411	24,405	75	452	384	1,540	1,019	20,935	..	..	..	..
Mornington Peninsula	..	..	..	1,044	..	..	..	..	..	..	..	..	910	134
Bellarine Peninsula	..	..	..	286	..	..	..	..	..	..	..	..	184	102
TOTALS	147,279	93,319	78,463	73,360	207	1,268	789	2,808	1,815	59,839	..	602	5,601	411
PRIVATE DIVERSIONS														
Other Private Diversions throughout the State	..	..	..	134,662	868	8,555	2,712	7,968	6,401	78,908	3,124	4,499	12,861	8,766
GRAND TOTALS 1962-63														
	2,236,747	1,386,689	935,422	1,151,555	26,113	43,180	22,820	61,317	418,025	440,360	45,757	43,059	22,634	28,290
GRAND TOTALS 1961-62														
	2,151,976	1,266,448	847,061	1,117,900	27,586	41,253	16,468	69,505	421,277	409,648	44,563	42,671	22,197	22,732

AREA IRRIGATED - 1958-59 TO 1962-63 - ACRES

SOURCE OF SUPPLY	1958-59	1959-60	1960-61	1961-62	1962-63
Goulburn-Loddon System	406,757	475,930	432,207	506,465	515,804
River Murray System	349,607	390,123	366,643	387,266	410,935
Other Northern Systems	37,977	15,830	15,691	18,148	16,794
Southern Systems	69,637	68,193	63,293	71,825	73,360
Private Diversions	101,588	102,706	108,221	134,196	134,662
TOTALS	965,766	1,052,782	986,055	1,117,900	1,151,555

APPENDIX C.

WATER DELIVERED TO DOMESTIC AND STOCK SYSTEMS, 1962-63.

Districts.					Quantity.	Total.
					Acre feet.	Acre feet.
Wimmera-Mallee System—						
Rocklands Reservoir .. .. .					30,328	
Wimmera River and Storages .. .. .					51,467	
Loddon and Goulburn Water .. .. .					..	81,795*
Goulburn and Loddon—						
Normanville (Loddon and Goulburn) .. .. .					1,232	
West Loddon (Loddon and Goulburn) .. .. .					5,368†	
East Loddon (Goulburn) .. .. .					2,059†	
Loddon (Loddon) .. .. .					Nil	8,659
River Murray—						
Millewa (Cullulleraine Pump) .. .. .					7,793	
Tyntynder North (Robinvale Pump) .. .. .					914	
Millewa (Yelta Area) .. .. .					282†	
Millewa (Carwarp Area) .. .. .					1,206	10,195
Grand Total .. .. .					..	100,649

\* Detailed statement of Wimmera-Mallee System hereunder.  
† Includes sales of water for irrigation.

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

Year.	Rocklands Reservoir.	Lake Lonsdale and Fyans Lake. (Gauged at Glenorchy.)	Wimmera River (Gauged at Glenorchy.)	Taylors, Pine and Wartook Lakes. (Gauged at Outlets.)	Waranga Western Channel. (Gauged at Avoca River.)	Total.	Rainfall.	
							Wartook.	Hopetoun.
	Acre feet.	Acre feet.	Acre feet.	Acre feet.	Acre feet.	Acre feet.	Inches.	Inches.
1960.. ..	18,244	319	7,831	29,203	16,010	71,607	36·87	18·72
1961.. ..	31,553	21,100	2,214	53,597	1,290	109,754	32·50	13·31
1962.. ..	30,328	4,607	3,794	43,066	..	81,795	30·60	12·27

## APPENDIX C—continued.

## WIMMERA-MALLEE AND MURRAY RIVER DOMESTIC AND STOCK SUPPLY SYSTEM.

## PERIODS OF ANNUAL WATERING.

District.	Year.	Commenced.	Completed.	Days.
Wimmera-Mallee .. .. .	1957	24.4.57	7.3.57	318*
	1958	1.4.58	26.11.58	240
	1959	5.4.59	20.12.59	259
	1960	28.3.60	26.10.60	212
	1961	22.3.61	28.12.61	281†
	1962	5.4.62	25.10.62	204
Tyntynder North (formerly Coreena) .. .	1957	9.7.57	2.8.57	25
	1958	12.7.58	28.8.58	25
	1959	7.7.59	11.8.59	35
	1960	5.7.60	25.7.60	20
	1961	10.7.61	2.8.61	23
	1962	2.7.62	23.7.62	22
Millewa (Millewa Section) .. .	1957	8.7.57	7.9.57	62
	1958	1.7.58	28.8.58	59
	1959	6.7.59	14.9.59	70
	1960	4.7.60	31.8.60	58
	1961	3.7.61	6.9.61	65
	1962	2.7.62	23.8.62	57
Millewa (Carwarp Section) .. .	1957	29.7.57	14.8.57	17
	1958	21.7.58	8.8.58	18
	1959	3.8.59	21.8.59	19
	1960	27.7.60	13.8.60	18
	1961	30.7.61	17.8.61	18
	1962	31.7.62	17.8.62	17
Millewa (Yelta Section) .. .	1957	2.9.57	28.9.57	27
	1958	9.9.58	2.10.58	25
	1959	2.9.59	18.9.59	
		29.10.59	2.11.59	21
	1960	6.9.60	17.9.60	
		27.9.60	8.10.60	22
	1961	28.8.61	1.9.61	
		5.9.61	20.9.61	21
	1962	4.9.62	21.9.62	18

\* Watering delayed because of interruption in flow in Waranga Western Main Channel.

† Watering delayed because of limitation in capacity in Main Western System.

## APPENDIX D.

## DETAILS OF IRRIGATIONS IN DISTRICTS SUPPLIED BY PUMPING.

## RED CLIFFS.

Irrigation Number.	Period.	Acre Feet Pumped.	Equivalent Average Depth per Watering.
			inches.
1 ..	26th August to 19th September, 1962 .. .. .	6,992	7.2
2 ..	18th October to 9th November, 1962 .. .. .	6,253	6.5
3 ..	27th November to 21st December, 1962 .. .. .	7,444	7.6
4 {	9th January to 13th January, 1963 .. .. .	6,034	5.6*
	17th January to 3rd February, 1963 .. .. .		
5 {	16th March to 22nd March, 1963 .. .. .	5,878	7.1*
	28th March to 12th April, 1963 .. .. .		
6 ..	31st May to 2nd June, 1963 .. .. .	377	7.3
	Total .. .. .	32,978	6.9

\* Interrupted owing to rain.

Figures do not include the following special irrigations :—

- (i) 10th July to 12th July, 1962 = 468 acre feet.
- (ii) 4th October to 6th October, 1962 = 495 acre feet.
- (iii) 2nd February to 25th February, 1963 = 624 acre feet.

## MERBEIN.

Irrigation Number.	Period.	Acre Feet Pumped.	Equivalent Average Depth per Watering.
			inches.
1 ..	4th September to 28th September, 1962 .. .. .	5,555	7.8
2 ..	16th October to 2nd November, 1962 .. .. .	4,360	6.1
3 ..	20th November to 10th December, 1962 .. .. .	5,237	7.3
4 {	18th December to 27th December, 1962 .. .. .	4,072	6.2*
	9th January to 13th January, 1963 .. .. .		
	22nd January to 23rd January, 1963 .. .. .		
5 {	24th January to 11th February, 1963 .. .. .	4,440	6.6
6 (a) ..	28th February to 8th March, 1963 .. .. .	1,350	9.4
(b) ..	12th April to 20th April, 1963 .. .. .	4,707	7.4
	Total .. .. .	29,721	7.2

\* Interrupted owing to rain.

Figures do not include special irrigations 5th July to 12th July, 1962 = 739 acre feet.

## NYAH.

Irrigation Number.	Period.	Acre Feet Pumped.	Equivalent Average Depth per Watering.
			inches.
1 ..	7th September to 26th September, 1962 .. .. .	1,737	7.5
2 ..	17th October to 2nd November, 1962 .. .. .	1,508	6.4
3 ..	20th November to 9th December, 1962 .. .. .	1,807	7.2
4 {	19th December to 28th December, 1962 .. .. .	1,423	6.7*
	11th January to 19th January, 1963 .. .. .		
5 ..	1st February to 18th February, 1963 .. .. .	1,476	6.4
6 ..	17th April to 27th April, 1963 .. .. .	933	6.7*
	Total .. .. .	8,879	6.8

\* Interrupted owing to rain.

Figures do not include the following special irrigations :—

- (i) From 17th July to 26th July, 1962 = 250 acre feet.
- (ii) From 9th October to 12th October, 1962 = 100 acre feet.
- (iii) From 8th March to 12th March, 1963 = 308 acre feet.



## APPENDIX D—continued.

## ROBINVALE.

Irrigation Number.	Period.						Acre Feet Pumped.	Equivalent Average Depth per Watering.
								Inches.
1	..	5th September to 24th September, 1962	..	..	..		3,018	7·2
2	..	26th October to 10th November, 1962	..	..	..		2,423	5·6
3	..	27th November to 15th December, 1962	..	..	..		2,806	6·4
4	..	6th January to 24th January, 1963	..	..	..		2,216	5·3
5	..	1st February to 16th February, 1963	..	..	..		2,216	5·3
6	..	9th April to 22nd April, 1963	..	..	..		1,874	4·6
		Total	..	..	..	..	14,553	5·7

Figures do not include the following special irrigations :—

- (i) 25th July to 26th July, 1962 = 144 acre feet.
- (ii) 16th October to 17th October, 1962 = 168 acre feet.
- (iii) 5th March to 9th March, 1963 = 319 acre feet.

## APPENDIX E.

## COLIBAN SYSTEM.

## WATER DELIVERIES.

Year.			Inflow to Storages.			Output from Storages.	Delivered to Users.	Percentage Efficiency.
			From Coliban River.	Through Ashbourne Diversion Channel from Campaspe River to Coliban River.	Total.			
			Acre feet.	Acre feet.	Acre feet.	Acre feet.	Acre feet.	
1956-57	..	..	88,600	2,600	91,200	30,666	19,710	64
1957-58	..	..	18,094	827	18,921	21,109	13,865	66
1958-59	..	..	73,664	1,536	75,200	27,074	19,092	71
1959-60	..	..	42,315	2,200	44,515	25,289	16,150	64
1960-61	..	..	74,255	718	74,973	29,832	20,755	70
1961-62	..	..	36,538	1,204	37,742	34,160	21,186	62
1962-63	..	..	30,114	2,575	32,689	30,275	18,394	60·7

## APPENDIX F.

CAPACITIES OF  
COMMISSION AND RIVER MURRAY STORAGES.

Storage.	Full Supply Reduced Level.	Capacity.	
		Acre feet.	Acre feet.
<i>Goulburn System—</i>	Feet.		
Eildon .. .. .	950·00	2,750,000	
Goulburn Weir (8,000 acre feet below gravitation level) .. .. .	408·00	20,700	
Waranga (53,000 acre feet below gravitation level) .. .. .	398·00	333,400	3,104,100
<i>Murray-Loddon System—</i>			
Hume .. .. .	Capacity in acre feet.		
Yarrawonga .. .. .	2,500,000		
Torrumbarry .. .. .	95,120		
Euston .. .. .	28,900		
Mildura .. .. .	31,320		
Wentworth .. .. .	29,360		
	38,140		
	2,122,840		
Kow Swamp .. .. .	272·00	40,860	
Cairn Curran .. .. .	684·50	120,600	
Tullaroop (2,200 acre feet below gravitation level) .. .. .	733·00	60,000	
Laanecoorie .. .. .	527·00	6,300	
Kerang North-West Lakes—			
Third, Middle, Reedy, Kangaroo, Racecourse, Charm, } (42,100 acre feet below gravitation level)	244·75		
Cullens .. .. .	241·00	69,400	
Lake Boga (23,750 acre feet below gravitation level) .. .. .	240·25		
Lake Cullulleraine .. .. .	226·50	29,650	
	101·00	2,000	
<i>Campaspe System—</i>			
Eppalock Reservoir .. .. .	637·00	252,860	1,943,090
<i>Wimmera-Mallee System—</i>			
Rocklands .. .. .	644·00	272,000	
Toolondo .. .. .	546·00	86,000	
Fyans Lake (800 acre feet below gravitation level) .. .. .	673·00	17,100	
Lake Lonsdale (1,600 acre feet below gravitation level) .. .. .	618·00	53,300	
Wartook (700 acre feet below gravitation level) .. .. .	1,451·00	23,800	
Taylor's Lake (1,500 acre feet below gravitation level) .. .. .	482·33	30,000	
Pine Lake (19,700 acre feet below gravitation level) .. .. .	475·00	52,000	
Green Lake .. .. .	452·50	6,600	
Dock Lake .. .. .	442·00	4,800	
Moora (200 acre feet below gravitation level) .. .. .	723·50	5,100	
Lower Wimmera Weirs .. .. .		2,870	
Batyo Catyo (Avon Regulator) .. .. .	401·00	3,900	
Lake Whitton .. .. .	375·00	1,300	
Township Reservoirs and Mallee Tanks .. .. .		5,030	563,800
<i>Maffra-Sale System—</i>			
Glenmaggie .. .. .	256·00	154,300	
Service Basins (Stratford, Heyfield) .. .. .		40	154,340
<i>Coliban System—</i>			
Upper Coliban .. .. .	1,652·00	25,700	
Lauriston .. .. .	1,574·20	16,000	
Malmsbury .. .. .	1,477·00	14,400	
Spring Gully .. .. .	899·00	2,000	
Subsidiary Reservoirs .. .. .		4,630	62,730
<i>Werribee System—</i>			
Pykes Creek .. .. .	1,306·00	19,400	
Melton .. .. .	273·00	15,500	34,900
<i>Mornington Peninsula System—</i>			
Lysterfield .. .. .	221·50	3,400	
Beaconsfield .. .. .	340·00	740	
Frankston .. .. .	255·00	660	
Mornington .. .. .	244·00	260	
Bittern .. .. .	250·00	480	
Service Basins .. .. .		260	5,800
<i>Otway System—</i>			
Service Basins .. .. .			1,080
<i>Miscellaneous—</i>			
Wonthaggi .. .. .	238·00	1,550	
Wonthaggi Service Basins .. .. .		10	
Newstead .. .. .	806·00	48	
Hepburn's Lagoon .. .. .	1,720·00	2,300	
Newlyn .. .. .	1,750·00	2,700	
Little River Weir .. .. .		180	
Moorabool River Weirs .. .. .		70	8,058
Available capacity of storages at 30th June, 1963 .. .. .			5,877,898
ADDITIONAL CAPACITY WHICH WILL BECOME AVAILABLE FROM WORKS UNDER CONSTRUCTION			
Devilbend Reservoir .. .. .	233·50	11,840	
Bellfield Reservoir .. .. .	910·00	63,680	75,520
TOTAL CAPACITY WHEN PRESENT WORKS ARE COMPLETED .. .. .			5,953,418

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

(b) New South Wales Water Conservation Datum.

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

\* Subject to certain obligations to South Australia.

## APPENDIX G (i).

## PRIVATE DIVERSIONS.

## NUMBERS AUTHORIZED.

Purpose of Diversion.	Licences.	Permits.	Agreements.	TOTAL, 1962-63.	Total, 1961-62.
Domestic and Stock .. ..	4	2,147	Nil	<b>2,151</b>	2,076
Industrial .. ..	5	110	Nil	<b>115</b>	103
Irrigation .. ..	1,025	3,100	567	<b>4,692</b>	5,092
	1,034	5,357	567	<b>6,958</b>	7,271

## AREAS AUTHORIZED TO BE IRRIGATED.

	Licences.	Permits.	Agreements (Drains).	Total.
	Acres.	Acres.	Acres.	Acres.
Cereals .. ..	348	361	159	868
Lucerne .. ..	4,217	3,911	427	8,555
Sorghum and Annual Crops .. ..	1,461	1,126	125	2,712
Pastures—				
Native .. ..	752	Nil	7,216	7,968
Annual .. ..	3,257	15	3,129	6,401
Perennial .. ..	31,136	35,289	12,483	78,908
Vineyards—				
Dried Fruits .. ..	1,312	12	Nil	1,324
Table and Spirit .. ..	1,633	167	Nil	1,800
Orchards—				
Citrus .. ..	3,140	37	6	3,183
Others .. ..	888	269	159	1,316
Market Garden .. ..	2,191	10,620	50	12,861
Miscellaneous .. ..	832	7,914	20	8,766
TOTAL 1962-63 .. ..	51,167	59,721	23,774	134,662
TOTAL 1961-62 .. ..	49,857	62,870	21,924	134,651

## APPENDIX G (ii).

## IRRIGATION WATER USAGE IN VICTORIA.

1942-1963.

(IRRIGATION DISTRICTS AND PRIVATE DIVERSIONS.)

Year.	Areas of Lands.		Water Delivered to Land.		
	Private Diversion.	State Irrigation Districts.	Irrigation in State Districts.	Private Diverters.	Total.
	Acres.	Acres.	Acre feet.	Acre feet.	Acre feet.
1942-43 .. ..	19,258	587,499	590,085	23,462	613,547
1943-44 .. ..	19,312	645,932	681,635	35,107	716,742
1944-45 .. ..	36,701	628,509	683,071	48,599	731,670
1945-46 .. ..	43,016	613,829	532,195	25,430	557,625
1946-47 .. ..	47,957	660,633	726,458	60,625	787,083
1947-48 .. ..	52,531	634,317	624,673	55,478	680,151
1948-49 .. ..	47,177	675,791	725,394	87,004	812,398
1949-50 .. ..	48,993	613,297	537,626	77,381	615,007
1950-51 .. ..	47,524	668,527	704,336	82,549	786,885
1951-52 .. ..	52,418	671,379	766,450	93,808	860,258
1952-53 .. ..	48,407	706,623	780,153	135,926	916,079
1953-54 .. ..	63,182	757,843	840,343	171,213	1,011,556
1954-55 .. ..	71,173	794,390	871,894	198,539	1,070,433
1955-56 .. ..	80,007	554,327	590,552	153,839	744,391
1956-57 .. ..	83,693	771,589	928,427	210,946	1,139,373
1957-58 .. ..	100,950	900,850	1,342,223	261,567	1,603,790
1958-59 .. ..	101,588	864,178	1,009,675	247,922	1,257,597
1959-60 .. ..	102,706	950,076	1,257,575	270,104	1,527,679
1960-61 .. ..	108,221	898,959	1,077,077	296,641	1,373,718
1961-62 .. ..	134,196	983,704	1,410,152	334,321	1,744,473
1962-63 .. ..	134,662	1,016,893	1,286,731	327,095	1,613,826
Increase over ten years ..	180%	34%	65%	143%	76%
Increase over twenty years	570%	75%	118%	1,270%	162%

APPENDIX H.

STAFF AND EMPLOYMENT FIGURES AS AT 30TH JUNE, 1961, 1962 AND 1963.

	30th June, 1961.				30th June, 1962.				30th June, 1963.			
	Permanent Divisions.			Total.	Permanent Divisions.			Total.	Permanent Divisions.			Total.
	Adminis- trative.	Pro- fessional.	Technical and General.		Adminis- trative.	Pro- fessional.	Technical and General.		Adminis- trative.	Pro- fessional.	Technical and General.	
<i>Engineering.</i>												
Staff possessing professional qualifications, engaged on engineering, draughting, research and surveying ..	..	301	3	384	..	312	3	401	..	299	19	399
Inspectors, Water Bailiffs, Rangers, &c., engaged on District operation and maintenance ..	..	..	433	511	..	..	454	537	..	..	431	509
Excavator Supervisors, Field Assistants, &c., engaged on construction and plant maintenance ..	..	..	23	78	..	..	26	51	..	..	13	41
<i>Accounting and Administration.</i>												
Administrative Officers and Clerical Assistants ..	216	..	54	336	222	..	52	326	227	..	53	335
Typists, Messengers, &c. ..	..	..	28	90	..	..	37	103	..	..	30	110
<i>Other Categories.</i>												
Laboratory Assistants, Survey Assistants, Motor Drivers, &c. ..	..	..	49	60	..	..	40	70	..	..	64	88
Totals ..	216	301	590	1,459	222	312	612	1,488	227	299	610	1,483
<i>Casual Labour.</i>												
Construction (Day Labour and Contract) ..	..	..	..	741	..	..	..	809	..	..	..	772
District Maintenance ..	..	..	..	1,095	..	..	..	1,048	..	..	..	1,158
TOTALS ..	..	..	..	3,295	..	..	..	3,345	..	..	..	3,413

## APPENDIX I.

## VICTORIAN WATER SUPPLY STATISTICS 1962-63.

## AREA—

Area of State of Victoria .. .. .	87,884 square miles	56,245,760 acres
Area of rural and urban lands artificially supplied with water for domestic and stock and industrial purposes by channels, tanks, bores, and pipe lines, excluding Melbourne metropolitan area .. .. .	18,390 square miles	11,770,000* acres
Area of Irrigation Districts and other lands supplied for irrigation (See Appendix B) .. .. .		2,662,000* acres
Area irrigated (See Appendix B) .. .. .		1,151,555 acres
Area served by drains within Irrigation Districts .. .. .		656,000 acres
Area within Drainage District .. .. .		19,750 acres
Area within Flood Protection Districts .. .. .		148,910 acres

\* Gross area.

## WATERWORKS—

## Controlled by Commission—

## Storages (See Appendix G)—

Number of large reservoirs .. .. .	40
Number of subsidiary reservoirs and service basins .. .. .	265
Total capacity of storages, = 5,877,898* acre feet.	

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

## Channels—Length—

Irrigation .. .. .	5,160 miles
Domestic and Stock .. .. .	8,000 miles
Drainage and Flood Protection .. .. .	2,670 miles
Total .. .. .	15,830 miles

## Pipe Lines—Length—

Mains .. .. .	285 miles
Reticulation .. .. .	1,213 miles
Total .. .. .	1,498 miles

## Tanks—Excavated—

Number in Wimmera-Mallee Waterworks Districts .. .. .	260 tanks
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## Bores—

Number in Waterworks Districts .. .. .	41 bores
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## Water Deliveries—

Quantity water delivered for irrigation (See Appendix A) .. .. .	1,613,826 acre feet
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## RURAL DISTRICTS—

## Administered by Commission—

	Number of Districts.	Number of Assessments.	Population.
Irrigation Districts .. .. .	10	15,782	48,874
Waterworks Districts (including rural lands, Coliban System) .. .. .	18	20,674	56,549
Flood Protection Districts .. .. .	3	1,723* (53)	4,246* (12)
Drainage District .. .. .	1	7,958	9,500
Totals .. .. .	32 districts	46,137 assessments	119,169 persons

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

## URBAN SUPPLY—

## Towns with reticulated pipe supplies for domestic and industrial purposes—

	Number of Towns.	Population.
Administered by Commission .. .. .	136	184,530 persons
„ „ Waterworks Trusts .. .. .	184	449,530 persons
„ „ Local Governing Bodies .. .. .	18	111,610 persons
Totals .. .. .	338 towns	745,670 persons

## SEWERAGE—

## Controlled by Local Authorities supervised by Commission .. .. .

	Number of Authorities.	Population.
54 (Systems operating) .. .. .	54	512,000 persons
21 (Constituted, not operating) .. .. .	21	103,900 persons
Totals .. .. .	75 authorities	615,900 persons

## CAPITAL LIABILITY FOR WATER SUPPLY—

## Total to 30th June, 1963—

Borne by the State .. .. .	£110,276,620
Borne by the Districts .. .. .	£ 27,158,222
Total .. .. .	£137,434,842



STATE RIVERS AND WATER SUPPLY COMMISSION

# VICTORIA

SHOWING  
WATER CONSERVATION WORKS  
AND DISTRIBUTARY SYSTEMS  
FOR  
DOMESTIC, STOCK AND  
IRRIGATION PURPOSES



RESERVOIRS  
WEIRS  
MAIN CHANNELS  
BORES

TOWN WATER SUPPLIES : COMMISSION  
LOCAL AUTHORITY  
OPERATING OR IN PROGRESS  
PROPOSED

SEWERAGE AUTHORITIES  
DISTRICT OFFICES  
IRRIGATION DISTRICTS  
WATERWORKS DISTRICTS  
FLOOD PROTECTION DISTRICTS  
RIVER IMPROVEMENT AND DRAINAGE DISTRICTS  
ISOHYETS

SCALE OF MILES  
0 4 8 12 16 20 24 28 32 36 40