

1952-53  

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VICTORIA

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STATE RIVERS AND WATER SUPPLY COMMISSION

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FORTY-EIGHTH  
ANNUAL REPORT  
1952-53

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

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# STATE RIVERS AND WATER SUPPLY COMMISSION

100-110 Exhibition-street,  
Melbourne, C.1,  
4th December, 1953.

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## ANNUAL REPORT, 1952-53

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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 1952-53, and Estimates for the ensuing year.

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

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

J. A. AIRD, Commissioner.  
B.S.Agr. (Cal.), B.Agr.Sc., Dip.Com.

L. DUGGAN, J.P., Secretary.

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# ANNUAL REPORT

OF THE

## STATE RIVERS AND WATER SUPPLY COMMISSION

FOR

YEAR ENDED 30TH JUNE, 1953.

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### SUMMARY OF REPORT.

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

#### WATER SUPPLY.

The total capacity of water storages controlled by the Commission is 2,373,680 acre feet, including Victoria's half share of River Murray storages.

The total area of lands in Victoria supplied with water for domestic and stock purposes or for irrigation by channels, tanks, bores, and pipe lines is 15,280,130 acres.

The Commission's storages contained 1,782,440 acre feet at 1st July, 1952, and, at 30th June, 1953, they contained 1,412,410 acre feet.

Total water deliveries for the year from the Commission's irrigation systems were 737,053 acre feet.

The number of diversions from streams issued under long-term licences and annual permits totalled 3,690.

#### DOMESTIC AND STOCK SUPPLIES.

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

#### IRRIGATION PRODUCTION AND DEVELOPMENT.

The area irrigated during the year was 755,030 acres.

Production from irrigated lands for year 1951-52 was £30,750,000.

#### NEW PROJECTS.

The construction of the Rocklands dam was completed during the year and officially opened by the Minister of Water Supply, the Honorable C. P. Stoneham, M.L.A., on the 7th May, 1953. Rocklands Dam, which is situated on the headwaters of the Glenelg River, has a capacity of 272,000 acre feet. The main purpose of this new storage is to safeguard water supply for domestic and stock purposes to the 47 towns and townships and the 12,000 farms in the extensive Wimmera and Mallee wheat and wool growing areas.

All of the Commission's developmental works have been affected by the curtailment of loan funds. Construction on the Cairn Curran Dam and the Tarago River Diversion works has been completely closed down, whilst the Big Eildon project has been retarded.

Following upon the decision to enlarge the Hume Reservoir, the Commission has commenced the transfer of the township of Tallangatta to its new site at Bolga.

#### TOWN SUPPLIES.

Towns in the State having a reticulated water supply number 268, with a total population of 545,380. Of these towns, 130 are administered by the Commission and the balance, 138, by Local Governing Bodies.

#### SOLDIER SETTLEMENT.

The new Robinvale Soldier Settlement commenced in 1946, was completed during the year and 166 settlers are now well established on their holdings. Production from this new irrigation district last year was worth £350,000.

Preparation of land for soldier settlement in the Murray Valley and Central Gippsland Irrigation Districts was continued during the year. In the Central Gippsland District, distributary channels have been completed to a stage which enabled delivery of irrigation supplies to commence in the 1952-53 season.

**FINANCE.**

The total receipts for water rates and charges for the financial year 1952-53, amounted to a record of £1,285,499 the previous highest collection being £1,197,463 in 1951-52. Other receipts amounted to £650,494.

The net Loan Liability of the State for works of water supply and drainage at 30th June, 1953, was £63,488,479, exclusive of the equity in National Debt Sinking Fund.

Of the net Loan Liability at 30th June, 1953, £3,640,813 is charged to Waterworks Trusts and other Local Governing Bodies ; £1,135,109 is debited to districts directly controlled by the Commission and to the Central Plant Workshops, Bendigo ; £1,496,113 is debited to the Plant and Machinery Account ; £19,161 to River Improvement Trusts ; £18,921 to Latrobe Valley Drainage ; and the balance, £57,160,619, is borne by the State.

The total Interest Charges for 1952-53 amounted to £2,025,931.

Waterworks Trusts and Local Governing Bodies paid to the Treasury as interest on loans the sum of £119,762.

In addition, Interest amounting to £12,352 in respect of Districts and Divisions under its control was met by the Commission.

In districts, the capital liability of which has been adjusted, the operations for the year resulted in a net loss of £238,074 after providing for interest, redemption, and depreciation.

A loss of £357,933 was incurred in operating districts to which the supply was continued by direction of Governor in Council. This amount was debited to the "Revenue Expenditure Chargeable to the State Account."

The net cost to the State for Interest and Exchange, loss on districts supplied by direction of Governor in Council, and services not directly chargeable to water-users, was £2,551,960.

The value of stores and equipment held in the Stores Suspense Account as at 30th June, 1953, was £1,150,879.

The value of moveable plant and machinery held in the Plant and Machinery Account as at 30th June, 1953, was £1,496,113.

A sum of £90,024 was paid into Consolidated Revenue in respect of depreciation payments by Commission's Districts for the year 1952-53.

The amount at credit of Water Supply Plant and Machinery Depreciation Fund as at 30th June, 1953, was £511,830.

The arrears of water rates and charges outstanding at 30th June, 1953, was £217,881.

The amount included in the Budget Estimate for 1952-53 for Vote Expenditure on works and services under the control of the Commission is £2,783,781. This amount is £49,750 less than the Commission's estimated requirements.

**RATING.**

The total net annual valuation of properties within Irrigation and Waterworks Districts, Flood Protection Districts, and Urban Districts and divisions thereof, including the Coliban System, amounted to £5,491,813.

The total number of rating assessments in the districts supplied with water by the Commission is 89,330, and the total number of assessments in Drainage and Flood Protection Districts is 7,022.

## PART I.—GENERAL.

During the year the Commission expended £6,999,911 on the construction of water conservation and associated works in Victoria. This sum was considerably less than the amount sought for very urgent projects and much needed work had to be deferred. Substantial progress was, however, made on those works which could be continued.

The construction of the Rocklands Dam was completed during the year, and on the 7th May, 1953, the Minister of Water Supply, the Honorable C. P. Stoneham, M.L.A., at an official ceremony released water from the new reservoir to flow inland into the Wimmera Mallee Waterworks System. This was an historic occasion because for the first time in Australia practically the whole flow of a coastal stream was diverted inland. Even before the completion of the Rocklands Project, however, the headwaters of the Glenelg River had been tapped higher up the river by a diversion channel—known as the Moora Channel—which was completed in 1930. The main purpose of this new storage is to safeguard the 47 towns and townships and the 12,000 farms against water shortages in time of prolonged drought in the catchment areas of the Grampians.

The value of production from the 11,000 square miles of farm lands dependent for domestic and stock water requirements on the Wimmera Mallee System, of which Rocklands is now an important headwork, is £30 million per year.

Good progress was made with channel reticulation of the extensive Murray Valley Irrigation Districts. The construction of channels is now nearing completion, and already this new irrigation province is contributing very materially to the primary production of this State.

But for the limitation of loan funds, the Murray Valley Project would have been completed considerably earlier than will now be the case.

Although restriction of funds retarded work on the Big Eildon Project, progress on this great national undertaking has been spectacular, and if even the present reduced rate of construction can be maintained, the dam should be completed by 1956.

Work on the Nambrok–Denison section of the Central Gippsland Irrigation Project has been continued but has been very greatly retarded by shortage of loan funds.

Good progress can be reported on the duplication of the Goulburn–Waranga Channel, although funds have also retarded this major contract.

The new Robinvale Soldier Settlement started in 1946 has progressed very satisfactorily, and 166 settlers are now well established on their holdings growing vines and citrus. Production last year from this new irrigation area was worth £350,000.

Irrigation production continued to play a major part in the economy of Victoria and last year it was valued at no less than £30,750,000, £14,500,000 of which came from the districts served by the Goulburn Irrigation System. Waters from the new Eildon Reservoir will double the production of the Goulburn Valley. It is, therefore, of the utmost importance that the work on this reservoir in particular and its associated distributary works and on other irrigation projects should be completed as speedily as possible.

The Commission regrets to report that it was not possible during the year to recommence work on the Cairn Curran Dam and there appears to be no immediate prospect of this work being restarted in the near future. It will therefore be a considerable time before the urgently needed waters of the Cairn Curran Reservoir will be available for irrigation in Northern Victoria.

Despite the fact that the Tarago Project for the diversion of additional waters to the Mornington Peninsula has been suspended and there appears to be no immediate prospect of its resumption, residential development in the Mornington Peninsula continues at a very rapid rate, whilst new industries are adding their demands to that system for water, particularly in and around Dandenong. The resumption of this work is of the greatest importance if the Commission is to be in a position to meet water supply requirements for domestic and industrial purposes in that important part of the outer metropolis.

With the continually increasing population in Victoria, particularly in the south-eastern part of the State, river improvement and drainage becomes increasingly important. Nine River Improvement and Drainage Trusts have been formed in various parts of the State and it is anticipated that a number of new Trusts will be constituted during the coming year.

## LEGISLATION.

The following legislation affecting the Commission was passed by Parliament during the 1952-53 session :—

*Waterworks Trust and Local Governing Bodies*—Act No. 5637 of October, 1952, and Act No. 5669 of April, 1953, amended the Water Acts to permit Waterworks Trusts and Local Governing Bodies, with the consent of the Governor in Council, to finance approved works by private borrowing. Under these Acts interest in excess of 3 per cent. per annum on such loans shall be borne by the State.

The new provisions are similar to those which have applied to country Sewerage Authorities for many years.

*River Improvement Trusts*—The *Water (Amendment) Act* 1953, No. 5669, which came into effect on the 14th April, 1953, extended to River Improvement Trusts the provisions of the *Water Act* 1952 which enabled waterworks trusts and local governing bodies to borrow money for the purposes of the Water Acts, with the consent of the Governor in Council. This means that such trusts may now borrow from sources other than the Government, and so supplement funds lent or granted them by the Government and thus increase the total funds available for river improvement works. The 1953 Act also repealed Section 16 of the 1952 Act, which prohibited loans by the Government to Trusts unless money borrowed under the Act were paid off in full.

## OVERSEAS MISSION.

At the end of August, 1952, with the approval of the Government, the Chairman of the Commission, Mr. L. R. East, left Australia by air for Great Britain via America to investigate river improvement, land drainage and flood protection with special reference to the nature and operation of land drainage legislation in Great Britain.

Mr. East was absent from Australia for a total of 90 days, during which he travelled 32,000 miles. Fifty-two days of this period were spent in Great Britain, during which he conferred with officials of the Land Drainage Section of the Ministry of Agriculture and met at their respective centres the chief executives of thirteen River Boards throughout England and Wales. He also discussed land drainage with officials of the Agricultural Section of the Ministry of State for Scotland at its office in Edinburgh.

He also saw some of the river improvement work carried out by River Boards in Great Britain and addressed a number of professional bodies on water supply development in Victoria.

After he had completed his investigations in Great Britain, the Chairman made a short visit to Holland where in company with Netherlands Government officials, he inspected the remarkable and extensive reclamation and colonization work being carried out by the Dutch in the Zuider Zee. He also examined in Holland large locks and other water-way structures and visited the important hydraulic laboratory at Delft, where he was able to discuss many problems with Professor J. Th. Thijsee.

On the homeward journey, Mr. East visited Italy and had numerous conferences with engineers and Government officials and made inspections extending over several hundreds of miles of flood protection, drainage, irrigation and land settlement undertakings completed or in progress in the extensive Po Valley in Northern Italy. He also inspected river improvement and hydro electric works along the Tiber River near Rome, and visited large-scale reclamation and land settlement works on what were the Pontine Marshes.

Mr. East also made a brief stop in Israel, where he had long conferences with senior Government engineers on mutual problems of the utilization of limited water resources. He was given an opportunity whilst in Israel to see a large part of that State, and inspected intensive works for the colonization of lands being brought under irrigation in Israel. He also inspected reclamation and drainage works in the Upper Jordan Valley, and visited the hydraulic laboratory of the Technical University at Haifa.

On his return, Mr. East, who was accompanied throughout the tour by the Assistant Secretary of the Commission, Mr. Everard Brown, prepared a comprehensive report entitled "River Improvement, Land Drainage and Flood Protection with special reference to the Nature and Operation of Land Drainage Legislation in Great Britain" for the Government, and presented his report to the Minister of Water Supply, the Honorable C. P. Stoneham, M.L.A. on the 12th June, 1953. This report makes important and far-reaching recommendations which, if approved, will require legislation. The report is now under consideration by the Government.



### RIVER MURRAY COMMISSION.

The meetings of the River Murray Commission were attended during the year by Mr. L. R. East who is the Victorian Representative, except for the meeting in September, 1952, when Mr. H. W. McCay, as Deputy Commissioner, represented Victoria owing to Mr. East's absence overseas.

#### *Hume Reservoir Enlargement.*

The New South Wales Department of Public Works continued work on the enlargement of Hume Reservoir, and on the cofferdam for the foundations of the new power station which will house two 25,000 kW turbo-generators. The spillway of Hume Dam has now been raised from R.L. 606 feet to R.L. 610 feet thereby increasing the capacity of the storage from 1,250,000 acre feet to 1,382,000 acre feet, an increase of 132,000 acre feet.

Consideration of the recommendation by the River Murray Commission that Hume Dam be further raised to impound 2,500,000 acre feet is at present awaiting finalization of an agreement between the Commonwealth Government and the New South Wales and Victorian Governments.

#### *Tallangatta Township Transfer.*

Works in connexion with the transfer of the Tallangatta Township were continued by the State Rivers and Water Supply Commission.

On the 24th July, 1952, at Bolga, the Honorable J. G. B. McDonald, M.L.A., the then Premier of Victoria, performed the official ceremony to mark the commencement of work for the transfer of the township of Tallangatta to Bolga.

A works depot and camp at the new site have now been established and work is proceeding on the construction of roads and water supply works in the new township area. Resumption surveys of the buildings and services to be transferred were continued.

#### *Marraboob Weir.*

As a result of the request by the Governments of New South Wales and Victoria to the Commonwealth Government, that a proposal for the construction of a new weir across the River Murray above the effluence of the Little Murray River be investigated, investigations were carried out by the Contracting Authorities for New South Wales and Victoria, in collaboration with the Water Conservation and Irrigation Commission, New South Wales, at the direction of the River Murray Commission.

A report on the investigation was forwarded to the River Murray Commission confirming the recommendations of the joint New South Wales-Victorian Investigation Committee of 1950, that a weir 408 feet long, of fixed piers with vertical lift gates be constructed immediately upstream of the offtake of the Little Murray River, together with a lock at the Victorian end of the weir.

The River Murray Commission adopted the recommendations set out in the report, and advised the Contracting Governments of their decision, and also indicated that in the Commission's view, it would be preferable to include a lock should the weir be constructed.

### INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE.

In 1948, the Government of India sponsored a proposal to invite the co-operation of all countries interested in irrigation and drainage to set up an international organization to pool experience gained in the engineering, economic and social aspects of irrigation and drainage for the mutual benefit of the countries concerned. As a result of this proposal, the International Commission on Irrigation and Drainage was set up at a meeting of representatives of fifteen countries at Simla, India, in June, 1950.

Australia's application for membership was accepted at the Third Meeting of the Commission's International Executive Council held in Chicago in September, 1952. The Chairman of the State Rivers and Water Supply Commission of Victoria, Mr. L. R. East, C.B.E. represented Australia at that meeting.

Twenty-one countries, including Australia, have now been admitted to membership of the International Commission, those countries being—

Algeria	India	Netherlands
Australia	Indonesia	Switzerland
Brazil	Iraq	Syria
Ceylon	Israel	Thailand
Chile	Italy	United Kingdom
Egypt	Japan	U.S.A.
France	Mexico	Yugoslavia.

Under the constitution of the International Commission, each participating country is required to set up a National Committee, and the meeting of representatives of Australian Authorities was held in Melbourne at this Commission's office on the 20th March, 1953, when it was decided, among other things, that a National Committee should be formed to consist of representatives of Statutory Authorities, Government Departments, firms and individuals actively interested in irrigation and drainage.

Dr. L. F. Loder, C.B.E., Director-General of the Department of Works, and Deputy President of the River Murray Commission, was elected first Chairman of the Australian National Committee, with Mr. C. C. Corbett, Chairman of the Water Conservation and Irrigation Commission of New South Wales and Mr. L. R. East, C.B.E., Chairman of the State Rivers and Water Supply Commission of Victoria, as Vice-Chairmen.

Meetings of the International Executive Council are held regularly and the first Congress on Irrigation and Drainage was held in New Delhi in January, 1951.

#### COLOMBO PLAN—TECHNICAL AID.

The Technical Aid programme is an important feature of the Colombo Plan, and as part of this Aid, the Commission made available Mr. A. R. McCallum, who is Assistant District Officer stationed at Cobram in the Murray Valley Irrigation District, to the Pakistan Government in September, 1952, to supervise the design and layout of 3,000 acres of land in the irrigation section of the Thal Livestock Development and Research Farm, Lahore.

Reports indicate that the work being carried out by Mr. McCallum is very greatly appreciated by Governmental Authorities in Pakistan, and it is expected that his work there will continue throughout 1953.

#### IRRIGATION PRODUCTION AND DEVELOPMENT—SEASON 1952-53.

##### SEASONAL CONDITIONS.

Good spring rains resulted in the amount of water used being below average until mid-December, but from then on the rate of water delivery was above normal. This high rate of delivery was maintained well into May, which was unusually late and was due to continued dry conditions; the total deliveries for the season were 737,053 acre feet. Stock were maintained in good condition in the irrigation districts throughout the season. With regard to citrus, the Valencia crop was comparatively light, but the 1953 Navel crop was above average. Canning fruits, particularly peaches and pears, were satisfactory although lighter than last year's heavy yields. The tomato crop was good, but prices dropped owing to collapse of overseas markets. Victoria grows two-thirds of Australia's tomato crop, and the Goulburn Valley is responsible for two-thirds of Victoria's output. The drying season for dried fruits was excellent and a very heavy crop of good quality fruit was processed, despite humid spring conditions and the consequent losses due to vine diseases.

##### GENERAL.

In past years, the main factor governing the area of land irrigated in the State has been the seasonal rainfall. The area of virtually unimproved grassland which has been irrigated has always been highest in dry years. In recent years, however, new development has tended to mask this effect, and the season under review is no exception. New development has taken place mainly in the Soldier Settlement areas of Robinvale, Murray Valley and Central Gippsland Irrigation Districts, but the area irrigated by private diverters has also considerably increased, particularly along the River Murray.

There has been a steady increase in the area of irrigated pastures from 443,223 acres in 1943-44, the year of the last drought, to 565,853 acres this year, despite the fact that the area of native pastures has decreased appreciably over the same period. This means that there has been a trend towards irrigation of sown rather than native pastures in recent years.

Irrigation development is also encouraging the erection of new factories in country areas. A £34,000 butter factory, described as the most modern in Victoria, was opened at Koondrook by the Deputy Premier during the year, while at Merrigum a new milk condensery, built at a cost of about £500,000, started production of canned milk, mainly for export to the East. New additions to the co-operative packing house at Robinvale, at a cost of £10,000, enabled speedy handling and processing of the district's record dried fruit crop this year.

For the second time in recent years, a Lockington dairy herd won the championship award for the best herd in the State. This went to Mr. H. Jackson of Lockington. The bacon carcase competition, conducted by the Australian Meat Board, was also won by an entry from the irrigation districts. This came from the stud of Messrs. G. L. and D. Randall of Cohuna, who were successful for the second year in succession.

#### PRODUCTION.

##### (a) *Irrigation Districts.*

The estimated gross value of primary production from Victorian Irrigation Districts for 1951-52 was £30,750,000. Details of this figure are as follows:—

<i>Live Stock.</i>					£	£
Milk and Milk Products	..	..	..	..	6,500,000	
Beef and Veal Meats	..	..	..	..	2,100,000	
Wool, Lamb, and Mutton	..	..	..	..	6,300,000	
Pigmeats .. ..	..	..	..	..	1,500,000	
Poultry and Eggs	..	..	..	..	1,400,000	
					—————	17,800,000
<i>Horticulture.</i>						
Dried Vine Fruits	..	..	..	..	5,250,000	
Table and Wine Grapes	..	..	..	..	400,000	
Canning Fruits	..	..	..	..	1,750,000	
Fresh and Jam Fruits	..	..	..	..	950,000	
Citrus Fruits	..	..	..	..	750,000	
					—————	9,100,000
Vegetables .. ..	..	..	..	..	..	2,250,000
Other Primary Products	..	..	..	..	..	1,600,000
						—————
						30,750,000

The total is approximately the same as for the 1950-51 season when the estimated gross value was £29,250,000, but there were substantial changes in a number of items.

The wool, lamb, and mutton total fell 35 per cent. due mainly to wool prices dropping by half to approximately 73 pence per pound. Sheep and lamb prices also dropped slightly. Sheep and lamb flocks, however, increased by nearly 10 per cent. and yielded 11,750,000 lb. wool.

Dried fruit prices dropped slightly but the total production was higher due to a large increase in the sultana pack.

Prices rose for all other products, especially beef and canned fruits. Canned fruit production totalled nearly 50,000 tons.

The following table sets out the estimated live stock numbers carried in Irrigation Districts during the past three years for which statistics are available:—

<i>Live Stock.</i>						1949-50.	1950-51.	1951-52.
						head.	head.	head.
Dairy cattle	..	..	..	..	..	215,500	211,500	204,000
Beef cattle	..	..	..	..	..	38,000	40,500	43,000
Pigs	..	..	..	..	..	50,500	56,500	52,500
Sheep and lambs	..	..	..	..	..	1,217,000	1,346,000	1,475,000

*(b) Wimmera-Mallee Domestic and Stock System.*

The estimated gross value of primary production for the 1951-52 season from the Wimmera-Mallee Domestic and Stock System, which covers nearly 11,000 square miles, was £30,600,000 made up as follows:—

<i>Cereals.</i>						£	£
Wheat	..	..	..	..	..	21,100,000	
Other Cereals	..	..	..	..	..	2,050,000	
						<hr/>	23,150,000
<i>Live Stock.</i>							
Wool	..	..	..	..	..	4,800,000	
Mutton, Lamb, Beef, and Pigeats				..	..	2,550,000	
						<hr/>	7,350,000
Miscellaneous, including Dairying and Orchards				..	..		100,000
							<hr/>
							30,600,000

The areas sown to cereal, hay and fodder crops produced just over 12,000,000 bags of cereals, the main items being 10,000,000 bags of wheat, and 50,000 tons of hay.

Live stock carried in the area included nearly 2,000,000 sheep and lambs, 31,000 dairy and beef cattle and 7,000 pigs.

## IRRIGATION PRODUCTION ADVISORY COMMITTEE.

The Irrigation Production Advisory Committee, on which the Commission is represented, was constituted by a resolution of the Agricultural Council in 1945. The Committee meets at irregular intervals, and at the thirteenth meeting, held during the year, the main agenda item was the consideration of the various water supply works for irrigation in each of the States, their relative cost, additional water for irrigation which would be made available by each, the area that could be irrigated, and the types of crops that could be grown.

## DISTRICT ADVISORY BOARDS.

Advisory Boards continued to function in Irrigation Districts during the year and gave valuable assistance to the Commission and its officers in solving local distribution problems.

The first Conference of Advisory Boards from Irrigation Districts supplied by pumping was held at Mildura on 20th and 21st May, 1953, when members of the five Boards concerned discussed water supply matters relating to their districts. Officers of the First Mildura Irrigation Trust were present by invitation.

## SOLDIER SETTLEMENT.

The establishment of an irrigation area for soldier settlement near Horsham was approved, and preliminary investigations required for the project were undertaken. In addition, various problems arising from the development of soldier settlement in irrigation districts were dealt with by an inter-departmental committee comprising representatives from this Commission, the Soldier Settlement Commission and the Department of Agriculture.

## AGRICULTURAL RESEARCH AND EXTENSION.

Agricultural problems which are specifically related to Irrigation were dealt with by the Commission's Irrigation branch whose activities are described below.

## JOINT INVESTIGATIONS.

In the Nyah-Woorinen and Tyntynder areas, investigations into problems of irrigated agriculture were continued by joint Committees comprising representatives of this Commission, the Department of Agriculture, the C.S.I.R.O. and local irrigators. The Commission maintained its representation on the consultative committees of the C.S.I.R.O. Research Stations at Merbein and Deniliquin, and the Department of Agriculture Research Station at Tatura.

In conjunction with the Department of Agriculture, experiments on the reclamation of salty land were continued. Plots have been established on both irrigated and dry land at Bundalaguah in the Maffra-Sale Irrigation District, and on irrigated land at Corop in the Deakin Irrigation District. No conclusions can as yet be drawn from these plots, as reclamation of salty land is a slow process.

Irrigation facilities were extended to the Department of Agriculture for experimental pasture plots in a number of districts, including the Murray Valley Irrigation District. Here, three plots were established out of a projected twelve, which aim at covering the major district soil types.

#### SOIL SURVEYS AND LAND CLASSIFICATION.

In conjunction with the Department of Agriculture, the soil survey of Tragowel Plains Irrigation District and some adjacent areas was continued. An area of 4,000 acres near Horsham was surveyed for selection of land for soldier settlement, and preliminary reports and working plans were prepared covering the soil surveys of Boort and Deakin Irrigation Districts.

Land classification is also proceeding in all areas likely to be affected by new storages in the Goulburn and Loddon systems.

#### WEED CONTROL.

During the season a further programme of experiments has been carried out on the chemical control of weeds which obstruct channels, drains, and natural waterways. As a result of this work economical and effective chemical control methods have been developed for Jointed Rush, Common Water Milfoil, Buttonweed and Red Azolla.

Satisfactory results have been achieved with chemical controls for Cumbungi and Willows but further experience of these controls is necessary. Good results have also been obtained with chemical applications to submersed weeds, but the cost is too high for the treatments to be widely used. Experiments are proceeding on Cane Grass and Paspalum and this leaves Water Couch grass as the only important weed for which no control method can be envisaged at the moment. The control of Water Couch grass is a vital link in any channel spray programme and consequently work will be concentrated on this weed next season.

A report describing the results of these experiments is being published as Technical Bulletin No. 5.

The work being carried out on weed control is becoming more widely known and this is evidenced by the large number of enquiries which have been received from primary producers, official organizations, and commercial companies.

#### GROUND WATER SURVEY.

The Irrigation Branch has continued the ground water survey of the Tongala, Murray Valley and Maffra-Sale Irrigation Districts. Attention is being focussed on drainage problems in these areas which either have a water table very close to the surface, or appear likely, from ground water behaviour, to develop one in the future. Such areas have been found near Kyabram and Katunga in the Tongala and Murray Valley Districts respectively, in some parts of the Werribee District, and on the Tyntynder Flats in the Swan Hill District.

A long term study of the effect of irrigation on ground water has been started in the new Nambrook-Denison District, where changes in levels and chemical composition before and after the introduction of irrigation will be followed.

An experiment was carried out in the Werribee District during the non-irrigation season to determine water losses in a deteriorated section of a concrete-lined channel. Pondage tests revealed large losses which were reflected in a rise of the local water table. The cause of the deterioration in concrete linings is being investigated in collaboration with the Industrial Chemistry Division of the C.S.I.R.O.

#### WATER UTILIZATION.

Extension work aimed at increasing the efficiency of water use on farms was continued. This took the form of farm competitions, field days, and talks to farmers' organizations, arranged in many cases in conjunction with the Department of Agriculture.

Competitions for pasture production, and for the most efficient use of irrigation water, were held in the Boort Irrigation District, and the judges' reports published. Field days were held at Bundalaguah and Riverslea in the Maffra-Sale Irrigation District. A course of lectures and field days was organized for new irrigators in the Nambrook-Denison District, and talks on irrigation problems were given at Tatura, Shepparton, Kyabram, and Mildura.

## FARM WATER SUPPLIES.

The Commission's Advisory Service to landholders with regard to water supply, irrigation and drainage has, during the year, carried out 63 inspections on properties, and given advice in 144 other cases.

The closing down of the Commission's construction work at Cairn Curran Dam made available a quantity of earthmoving equipment for excavating farmers' storage dams, the cost of which was met by the landholders. In all, 19,500 cubic yards of earthwork was excavated for a total of 42 acre feet of storage.

Most of the stored water will be used for the irrigation of small areas on the farms concerned.

The supply of spray irrigation equipment has increased, and as a number of types are now available, there are increasing inquiries by landholders interested in its use on their farms.

## DISTRICT EXTENSIONS, EXCISIONS AND ALTERATIONS.

The Maffra-Sale Irrigation District was extended to include an area of some 19,000 acres supplied by an extension of the district channel system.

To facilitate administration, the Millewa, Carwarp, Carwarp Central, and Yelta Waterworks Districts, which were affected by re-subdivision under the provisions of the North-west Mallee Settlement Areas Act, were united to form one District known as Millewa Waterworks District.

The Red Cliffs-Merbein Irrigation District was extended to include an area of 200 acres supplied by the Commission's works, and an area of some 17,000 acres not served by the Commission's channel system was excised from that District.

Areas of 13,400 acres and 665 acres, not supplied by the Commission's works, were excised from Carwarp and Wychitella Waterworks Districts respectively.

## URBAN DISTRICTS—ALTERATIONS.

The boundaries of Chelsea-Frankston, Dromana-Portsea, Pakenham, and Red Cliffs Urban Districts were extended to include lands served by extensions of the respective reticulation systems. An area of 270 acres within the Dandenong-Springvale Urban District, which is supplied by the Melbourne and Metropolitan Board of Works, was excised from the Urban District and included in the Metropolitan Board's metropolis.

## ADMINISTRATION.

### DEATHS AND RETIREMENTS.

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

G. A. R. S. McCallum, Clerk ; P. Sorrell, Draughtsman ; W. Connors, and C. Geisler, Water Bailiffs.

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

Mr. F. C. Hodgson, Chief Mechanical Engineer ; Messrs. F. A. Nevill and H. B. Lincoln, Divisional Engineers ; Mr. A. J. Robin, Chief Surveyor ; Mr. G. A. Baker, Designing Engineer ; Mr. C. S. Murray, Research Officer ; Messrs. W. A. Cayzer, H. C. Ray, and W. J. Norman, Clerks ; Mr. R. R. W. Morton, Superintending Draughtsman ; Messrs. J. J. Duffy and A. J. Cox, Surveyors ; Messrs. H. M. Corlett and R. W. Conibear, Draughtsmen ; Mr. A. C. Williams, Works Superintendent ; Mr. W. E. Baddock, Caretaker ; Messrs. A. J. D. Cook, A. A. Spencer, and R. J. D. Stewart, Water Bailiffs ; Mr. B. B. Osgood, Reservoir Keeper.

### RESIGNATIONS.

During the year 94 officers and employees resigned from the Commission's service, of whom 13 were engineers and surveyors, 15 were draughtsmen or draughtswomen, 21 were clerks, 23 were typists, 6 were bailiffs, and 16 other officers and employees.

## STAFF.

The following statement shows the number of officers and employees on the Commission's staff at 30th June, 1953 :—

	Males.	Females.	Total.
Professional Officers .. .. .	301	2	303
Administrative Officers .. .. .	168	..	168
Technical and General Officers .. .. .	455	49	504
Total Permanent Officers .. .. .	924	51	975
Temporary Employees .. .. .	295	68	363
Totals .. .. .	1,219	119	1,338
Percentage Employees on Temporary Basis .. .. .	27 per cent.		



## PART II.—WATER SUPPLY AND DRAINAGE.

### WATER DISTRIBUTION.

The total area of land in Victoria supplied with water for domestic, stock or irrigation purposes during the year, exclusive of the area controlled by the Melbourne and Metropolitan Board of Works, was 15,280,130 acres.

During the winter and spring of 1952 exceptional rains resulted in severe flooding whilst in the autumn and winter periods extending to June, 1953, rainfall was below normal.

At the commencement of the irrigation season on the 1st September, 1952, the total volume of water in the Commission's main storages, including Victoria's half share of the water in the Hume Reservoir and Yarrawonga Weir, was 1,989,080 acre feet against a total capacity of 2,155,850 acre feet.

The total quantity of water delivered for irrigation in all districts was 773,052 acre feet, including 71,717 acre feet by pumping for the Red Cliffs, Merbein, Robinvale, and Nyah Districts, and 43,017 acre feet pumped by the First Mildura Irrigation Trust for the irrigated lands under its control.

The total quantity of water delivered on to the land in the Goulburn System was 353,728 acre feet.

In the Torrumbarry System, the delivery was 196,796 acre feet, and in the Murray Valley District 90,413 acre feet.

The quantity of water supplied to lands outside the Commission's district was 41,334 acre feet, bringing the total volume of water delivered to the land in Victoria to 814,386 acre feet. In addition, private diverters pumped 101,693 acre feet on to lands under their direct control from various streams throughout the State.

The volume of water released from the Waranga Reservoir amounted to 664,680 acre feet, of which 254,960 acre feet was delivered to the land, and 8,572 acre feet passed on at Loddon Weir to the Wimmera-Mallee Waterworks Districts. These figures show that about 40 per cent. of the water released from the storages was delivered to the land.

The volume of the water released from the Goulburn Weir and the Goulburn-Waranga Channel for the eastern portion of the Goulburn System amounted to 256,585 acre feet, of which 98,768 acre feet or 38·5 per cent. was delivered to irrigators. Therefore, of the total volume of 921,265 acre feet of water released from the headworks of the Goulburn System, the volume of water delivered to the land was 353,728 acre feet, which with the 8,572 acre feet passed on to the Wimmera-Mallee represented a delivery efficiency of 39·4 per cent. from headworks to irrigators.

### PRIVATE WATER USERS.

#### DIVERSION OF WATER.

The control of the use of water in rivers, creeks, streams, and watercourses, lakes, lagoons, and marshes, under Section 188 of the Water Act was strictly exercised by the Commission.

Licences and permits in force at the 30th June, 1953, comprised 593 licences issued for periods up to 15 years authorizing the holders to irrigate a total of 33,300 acres and for the diversion of water for stock, domestic or industrial purposes together with 3,097 annual and special permits for the irrigation of 42,066 acres and for domestic, stock, and industrial requirements.

The total area authorized to be irrigated this year was 42,066 acres under permits and 32,286 acres under licences, a total of 74,352 acres in all. Last year the figures were permits 39,561 acres and licences 27,499, a total of 67,060 acres.

During the year the Commission conducted a detailed survey with a view to obtaining accurate information in respect of the types of crop being produced by holders of licences and permits.



Details of the surveys are given in the following schedules :—

UTILIZATION OF WATER SUPPLIED UNDER PERMITS AND LICENCES OTHER THAN  
TORRUMBARRY SYSTEM, YEAR ENDED 30TH JUNE, 1953.

Number of Permits	..	..	3,097
Number of Licences	..	..	311
Number of Diversers	..	..	3,408

Type of Crop Irrigated.	Area Irrigated.	Percentage of Total.
	Acres.	
*Pastures (for details see below) .. .. .	24,413	66·4
Lucerne .. .. .	3,043	8·3
Cereals .. .. .	2,255	6·1
Market Garden .. .. .	1,897	5·2
Tobacco .. .. .	606	1·7
Orchards .. .. .	404	1·1
Citrus .. .. .	360	1·0
Sorghums and Annual Crops .. .. .	266	0·7
Vines for dried fruit .. .. .	252	0·7
Vines for wines and spirits .. .. .	211	0·6
Vines for fresh fruit .. .. .	62	0·2
Miscellaneous (including fallow) .. .. .	2,946	8·0
	36,715	100·0
	Area in Acres.	Percentage of Total Pastures.
*Pastures—		
Annual sown .. .. .	12,146	49·8
Perennial sown .. .. .	7,088	29·0
Native .. .. .	5,179	21·2
Total .. .. .	24,413	100·0

*Torrumbarry System.*

Areas irrigated by private diversers totalled 26,870 acres comprising 14,931 acres under Licences and 11,939 acres under “ Sales ” conditions.

Type of Crop Irrigated.	Area Irrigated.	Percentage of Total.
*Pastures (for details see below) .. .. .	21,404	79·7
Cereals .. .. .	2,404	8·9
Lucerne .. .. .	983	3·7
Market Garden .. .. .	660	2·4
Vines .. .. .	73	0·3
Orchard .. .. .	606	2·2
Citrus .. .. .	..	..
Fallow .. .. .	83	0·3
Sorghums and Annual Crops .. .. .	531	2·0
Tobacco .. .. .	52	0·2
Miscellaneous .. .. .	74	0·3
	26,870	100·0
	Area in Acres.	Percentage of Total Pastures.
*Pastures—		
Perennial sown .. .. .	4,660	21·8
Annual sown .. .. .	12,332	57·6
Native .. .. .	4,412	20·6
Total .. .. .	21,404	100·0

An additional 50 applications for diversion licences were lodged during the year, making a total of 990 lodged to 30th June, 1953. The financial position prevented the completion of additional weirs on the Moorarbool River.

### ADVISORY COMMITTEES—YEAR 1952-53.

There are now 22 Advisory Committees in existence and they continue to most successfully fulfil their functions of advising and assisting the Commission in the control and utilization of waters of the streams with which they are concerned. Some of the Committees have now been in operation for ten years. Each Committee functions under the Chairmanship of the Commission's Superintendent of Water Distribution.

### GOULBURN DIVISION.

The Goulburn Division embraces an area of nearly 1,000,000 acres approximately three-quarters of which, forming the eastern part of the Goulburn Irrigation System, are supplied with water from the Goulburn River and storages, and the remainder comprising the Murray Valley Irrigation District draws its supplies from the River Murray at Yarrawonga Weir. The Division also includes Loch Garry, and Kanyapella Flood Protection Districts, and the Urban Divisions of Tallygaroopna, Stanhope, and Corop.

The districts forming the Goulburn Division are controlled by District Engineers and District Officers stationed in centres located at Shepparton, Tatura, and Tongala (Rochester was included in Loddon Division as from 1st January, 1953) for that portion of the Goulburn System within the Division, and at Cobram for the Murray Valley Irrigation District.

The irrigation season commenced with full storages and satisfactory river flow; there was, however, little demand for irrigation until late in December because of the abnormally wet winter and the frequent showers which followed. Of the season's total water right delivery only 27 per cent. had been required up till the end of December. Thereafter, until irrigation ceased in the middle of May, the irrigation season having been extended from 30th April, exceptionally dry weather prevailed and there was a constant demand for water for all classes of culture with peak demands occurring in January, March, and early April. In Rodney District during the autumn peak demand the district inflow was as high as 800 cusecs—about double the normal inflow—and the delivery efficiency then rose from 43 per cent. to 55 per cent.

There were increases in the areas of both annual and perennial pastures under irrigation, notably in the new Murray Valley District where 23,603 acres of sub-clover and rye, 13,441 acres of lucerne, and 12,941 acres of permanent pasture were irrigated. Substantial increases in areas sown to pastures occurred in the districts surrounding Shepparton and also in the Rodney District where the area of all crops irrigated was 99,353 acres compared with 94,762 acres for the previous season. In the latter district the area under market gardens increased by approximately 50 per cent. on the previous year.

Practically all structural works on drainage and irrigation extensions and replacement works ceased during the year due to the severe curtailment of loan funds.

Although the Goulburn River remained at very high levels for long periods during the winter, it was necessary on one occasion only to bring into operation the Loch Garry Flood Regulator, the drop bars of which were withdrawn to allow flood water to pass and then replaced in accordance with official flood regulating procedure.

The spring and late summer rains this season caused dense growth of weeds in the drainage systems, particularly in the Tongala-Deakin area, to cope with which additional machines and labour had to be employed. In this area continued use was made of the bucket imported from New Zealand known as the "Sinclair Weed Bucket" which has proved highly efficient in the removal of dense growth of both surface and submerged weeds; the bucket is used in place of the ordinary silt bucket on a three-eighth cubic yard dragline excavator and the rate of weed removal has exceeded one mile of drain per 40 hours. In addition to weed clearing, two dragline excavators cleaned out and remodelled 29 miles of the Tongala and Deakin Drainage Systems. In Rodney, Shepparton, North Shepparton, and Katandra Districts, the drainage systems required constant attention to maintain the drains in reasonably clean condition. In these districts 7 miles of main drains were cleaned out by dragline excavators and 187 miles of branch drains by labour gangs.

The Murray Valley Irrigation District—a comparatively new District in which channel works are nearing completion—comprises an area of 266,762 acres of which 216,862 acres have been fully reticulated and carry a water right of 83,932 acre feet. The total length of the irrigation channels now in use is 508 miles. There were 180 applications from irrigators for special additional sales of water for irrigation involving the delivery of 8,646 acre feet of excess water.

Special attention continued to be given to the control of leakage from isolated sections of the Murray Valley District channels. During the off season, 20 chains of banks were trenched by back-ditching excavator, the trench back-filled with clay slurry, and the banks restored to their original profile by a 'dozer grader. This method has proved most effective and further similar work will be carried out when required.

During the year 3,990 acres of land were grid-surveyed by the Commission for district irrigators who were supplied with plans for grading, check-banking and channelling their land for the sowing of permanent pastures. The Commission carries out the work for irrigators at a nominal charge per acre plus travelling costs. As a result of this service, development of land for irrigation throughout the districts is proceeding on very sound lines.

Substantial remedial works were carried out at Casey's Weir and Gowangardie Weir on the Broken River in the way of replacing and extending the protective work on the downstream side; at the latter structure extensive work in mass-concrete was effected at the foot of the weir wall.

### LODDON DIVISION.

During the 1952-53 season, the responsibilities of the Loddon Division were extended to include the Rochester District Centre which controls the Rochester and Campaspe Irrigation Water Supply Districts and the Urban Division of Lockington. The Loddon Division, now comprising the District Centres of Swan Hill, Kerang, Cohuna, Pyramid, Boort, and Rochester, embracing fourteen irrigation and water supply districts, five waterworks districts and ten urban districts or divisions, covers an area of about one million and a half acres located astride the Loddon River from Bridgewater in the south to its junction with the River Murray and extending along that river from Tyntynder upstream to Echuca.

Water supply to lands within the Loddon Division is drawn from the Loddon and Goulburn Supply Systems in its southern parts to as far north as the Macorna Channel, from which channel inclusive northwards all supplies are drawn from the Torrumbarry System offtaking from the River Murray just upstream of the Torrumbarry Weir. With the exception of the Tresco Irrigation District and the Gredgwin Section of the Normanville Waterworks District, which are supplied by pumping, all the districts within the Division are supplied by gravitation from the Commission's Main Carrier Channels.

Following average rainfall during winter, good rains occurred from September to November, resulting in a generally reduced demand for irrigation water in the early part of the season. However, as very little rain fell from December to February, and none at all in March, with again a very small rainfall in April, the demand for water was so keen for the latter part of the season that the rate of delivery in all districts created a new maximum and irrigation under sales conditions extended until the middle of May.

In the Swan Hill Centre, the abnormally dry autumn period, with moderate temperatures, produced a high quality dried fruit and the Swan Hill District has had a year of high yields and prosperity in all phases of pastoral production. The prosperity of the District is reflected in the high prices being paid for well-developed pasture land; some of the top prices have approached £200 per acre.

The climatic conditions this year were ideal for both dairying and fruit industries. This season's dried fruit pack of 10,400 tons for the mid-Murray Valley District equals the previous record in spite of record sales of fresh fruit and table grapes on both the home and overseas markets, and the diversion of a quantity of grapes to the wine industry. This year's butter output of 900 tons constitutes a record. A large volume of stock continued to pass through the Swan Hill saleyards and in total exceeded other years in all classes of stock.

The trend toward a change of plantings continues at Woorinen where 15,000 young apricot trees have been planted. It is significant that these are practically all planted on small vacant areas, and very few vines have been replaced.

The keen demand for water during the latter portion of the season severely taxed the capacity of the supply system and in the Woorinen area supply difficulties were increased by the deterioration of sections of the concrete lined channels. At the termination of the watering season a critical section of the Beverford Channel was remodelled by the gunite process over a length of 47 chains when the top was raised 10 inches above the old level and a 1-in. layer placed over the old concrete lining. It will be necessary to remodel further sections of concrete lined channels in this area.

To reduce the drainage run-off to the Woorinen South Lake, a pumping unit with a capacity of 1 cusec has been installed on the No. 3 drain to pump surplus water into the channel system when conditions are suitable, and an all-out effort was made by both the landholders and the Commission to prevent surplus irrigation and channel water from entering the drains. Good results were achieved and it is considered that a continuance of this strict control in conjunction with the pump on No. 3 drain will make it possible to maintain the water in the South Lake at a safe level.

During the year, the Chief Irrigation Officer carried out a series of tests to determine the efficacy of chemical control of water weeds. The tests at Woorinen on cumbungi are most encouraging.

The Tyntynder Investigation Committee during the past twelve months continued its pasture reclamation work and trial plots have been established to determine the value of krilium in reconditioning Tyntynder soils and also to test the value of introducing trace elements in the reclamation works.

Surveys have been carried out in this district with a view to providing outfalls from Nos. 1, 2, and 6 channels to the Little Murray River to discharge storm water and permit the draining of channels following irrigation in order to assist with the control of weed growth.

In the Tresco District there were seven rotational irrigations. The first watering commenced on 23rd September, 1952, and the seventh was completed on the 18th April, 1953. The prime mover at Lake Boga pumping unit was converted from steam to diesel during the year and the conversion of the Tresco re-lift unit to electric power is in progress. The Tresco West pumps are now all converted to electric power.

A total of 4,917 acre feet of water was delivered to irrigators on Pental Island during the season.

In the districts controlled from the Kerang Centre, the demand for water during the summer was only moderate but all channels were required to carry maximum volumes to meet the keen demand for water which arose in the latter portion of the watering season. In all parts of the system, the rate of delivery maintained was greater than that experienced in any previous years. Weed growth in channels and drains was again prolific and a large proportion of Vote Funds was expended to keep the channels clean. The limited funds available for new works greatly curtailed the use of mechanical equipment. A total of 20 miles of Commission channels and drains was treated during the year and the excavators not required on district works were diverted to private hire works for irrigators in the district. The Pyramid Creek Improvement Works have been temporarily discontinued, due to lack of funds.

On account of a high River Murray until December, 1952, the Torrumbarry Weir trestles were not replaced until the middle of January, 1953. Weather conditions affected water deliveries to the Cohuna District which were small until the middle of November, when the weekly delivery first reached 2,000 acre feet, but due to continued dry weather subsequent weekly deliveries did not fall below this figure until the middle of April, 1953. A total of 58,728 acre feet of water was delivered to water users within the district and a further 16,300 acre feet were diverted by licence and permit holders outside the district.

The old Gunbower National Channel inlet structure suffered further damage during the year and at the end of the watering season the water level in the main stream was lowered and repairs effected to the upstream face of this structure and all defective sheeting was replaced. Plans for a new structure have been prepared with a view to construction being undertaken next year.

A 20 h.p. electric motor was installed at the Cohuna Urban pumping station in April of this year and in the Leitchville Urban Division the single-stage centrifugal pump was replaced with a similar unit.

The wet conditions experienced in the early part of the season led to repeated flooding of the Loddon River. It was necessary to remove the bars from the Loddon Weir on seven separate occasions and, until the end of December, the irrigation requirements for the Boort District were met direct from the Loddon River flow. Water deliveries in the Boort Centre reached 17,000 acre feet which included 800 acre feet surplus sales water. In the Normanville and the West Loddon Waterworks Districts 712 dams were filled for domestic and stock purposes.

In the Pyramid Centre, 57,200 acre feet of water were delivered to users for the irrigation of 65,496 acres. This area irrigated compares with a total of 61,133 acres for the previous year.

Until the present season, difficulty was experienced in the satisfactory maintenance of the small drains in the Dingee District but suitable equipment, in the form of a weed rake for attachment to a Ferguson tractor, was fabricated at the Commission's District Centre. This equipment has been used successfully for cleaning both drains and small supply channels.

In the Rochester Centre, in spite of a wet three weeks' period at the end of October when virtually no water was used, the season's total of 80,490 acre feet delivered was well above average and has been exceeded only on four other occasions, the highest being 88,106 acre feet in 1946-47.

Watering began on 24th September, 1952, with pre-season sales, when 189 acre feet was delivered prior to the commencement of the season, and continued until 15th May, 1953, with after season sales of 3,726 acre feet.

The Waranga Western Channel reached full capacity towards the end of February and rationing had to be imposed until about the middle of April when showery and generally cooler weather conditions eased the demand.

The completion of the reconditioning of the Campaspe Weir made it possible to deliver more water than usual and, as well as filling 82 tanks for domestic and stock requirements, some 419 acre feet of water were delivered under sales conditions.

The private hire of excavators to irrigators totalled 62 days.

#### GIPPSLAND AND SOUTHERN DIVISION.

The Maffra-Sale, Central Gippsland, Bacchus Marsh, and Werribee Irrigation Districts, the Heyfield Urban Division and the Werribee Waterworks District are included in the Gippsland and Southern Division.

Heavy winter and spring rains caused a late start of irrigation in all these districts, but the dry summer brought about a maximum demand for water in the latter half of the irrigation season.

All storages which supply water to the districts of this division were full at the commencement of the irrigation season and ample water was available to meet all demands.

General irrigation did not commence in the Bacchus Marsh District until late in December, but the total volume of water delivered during the season represented 125 per cent. of the water rights allotted to the district.

The flood conditions which were experienced during the first few months of the year caused considerable damage to the district channel system and necessitated a large amount of special repair works in addition to normal maintenance. However, all work was completed prior to the commencement of irrigation and resulted in an increase in the efficiency of distribution of water. 84.6 per cent. of water received at the district offtake was delivered to irrigators compared with 78 per cent. during the previous year.

A large landslide occurred along the course of the High Level Channel and necessitated an alternative means of supply to the township of Bacchus Marsh being arranged by the Shire Council. Replacement of the destroyed section of the channel has not yet been practicable.

At the main channel headworks, the flood in the Werribee River caused considerable damage to the diversion weir which had to be extended at the northern end some 63 feet into the solid bank. Two sections of the Lerderderg West Channel collapsed owing to erosion of the Lerderderg River and this necessitated the construction of two pipe lines to replace the damaged channel.

The manufacture of Dethridge Meter Wheels was continued throughout the year and 302 small and 270 large wheels were constructed and despatched to various centres throughout the State.

Land values in the district showed a marked increase and ranged from £400 to £600 per acre.

In the Werribee District, general irrigation did not commence until early in January. This late start was due to a wet spring which was reflected in the reduced volume of water delivered to the district.

Some localized flooding was experienced during the very wet year and the whole drainage system is under investigation with the object of providing improvements to the existing system.

The rainfall at Maffra for the year was 2,190 points. This is the first time for five years that it has been less than average. Falls were above average in the first half of the year and this caused a delay in commencement of irrigation. However, the dry summer caused a heavy demand for water and deliveries totalled 105 per cent. of water rights allotted to this district.

Finance for loan works was limited to a small allocation to enable the Station Drain No. 5 Spur to be completed. This work is in progress.

The general maintenance of the channel system was continued and several old structures were replaced.

Maintenance of the Main Northern Channel received special attention and two large reinforced concrete syphons have been lined with pneumatically-placed concrete.

The main drain which has its outfall to Lake Wellington was cleaned and a new cut was made through the tea-tree bordering the lake. This should improve the drainage facilities in this area.

The flood in June, 1952, caused considerable damage to channels and drains in the Riverslea area but most of this damage has now been repaired. The Tinamba Loop channel was brought into operation to augment supplies to the Riverslea area and ensure an adequate supply of water.

Surveys for land grading layouts were made for irrigators during the year and excavators were hired to other Government Authorities and local irrigators.

In the Heyfield Urban Division, extensions have been made outside the division at the expense of the householders concerned.

The Central Gippsland District was officially opened on the 16th October, 1952, and a general irrigation immediately followed the opening. 2,826 acres were watered during the season and 3,842 acre feet were delivered to the district.

#### WIMMERA-MALLEE DIVISION.

The distributory works of the Wimmera-Mallee Domestic and Stock System serve 11,000 square miles, approximately one-eighth of the State of Victoria, embracing the whole or part of seventeen municipalities.

The catchments of this system, which cover an area of over 2,000 square miles, extend from the head of the Wimmera River, 30 miles north-west of Ballarat along the Dividing Range to the Western Range of the Grampians, 30 miles northerly from Hamilton.

The main reservoirs are situated in the open country between the Wimmera River and the Grampians Mountains, with the exception of Wartook Reservoir at the head of the McKenzie River in the heart of the Grampians and the recently completed Rocklands Reservoir with a capacity of 272,000 acre feet on the Glenelg River near Balmoral. The total storage capacity of the Wimmera-Mallee system is 536,860 acre feet.

Water is supplied by gravitation through approximately 6,500 miles of channels to fill farmers' tanks once each year during the winter or spring months. It is the responsibility of farmers to provide storages sufficient in size to meet their domestic and stock requirements for at least a year.

Forty-seven towns with a total population of 40,000 people are also supplied by the channels of the Wimmera-Mallee system, while the total population of the area served is over 80,000 people.

Seasonal conditions during the year were again good, and as a number of storages filled to full capacity following good rains in the catchment areas, the requirements of each district were fully met.



### *Rocklands Reservoir.*

From the outlet of the new Rocklands Reservoir, water is conveyed northward across the Divide through a 250 to 360 cusec capacity channel 75 miles in length leading to the Pine and Taylor's Lakes storages of the Wimmera-Mallee system.

Although comparatively small channels have been constructed in Victoria in similar types of country, the provision of a 250-cusec channel along a tortuous route with side slopes as steep as 2 to 1 mostly in rock presented many difficulties.

Part of this outlet channel passes through a tunnel three-quarters of a mile long and in the Glenelg River gorge there were five syphons 7 feet in diameter. 2 miles 13 chains were in concrete fluming and many structures were necessary to pass cross-drainage water.

Even beyond the gorge of the Glenelg River much difficult material was met. In some cases the channel was in wild country, and crossed sand dunes up to 10 feet high while cuttings up to 20 feet deep in rock had to be excavated.

In the section of  $38\frac{1}{2}$  miles from Lake Toolondo to Burnt Creek, there were two syphons 7 feet in diameter, two railway bridges, 27 road bridges, 35 farmers' crossings, and 60 cross-water syphons.

In the Burnt Creek section where an existing channel had to be enlarged from 125 to 360 cusecs, the work had to be carried out by 4 draglines while channel flows were being maintained. There are 8 road bridges and 13 farmers' crossings to be constructed or remodelled in this section.

This channel for the first time in the history of Australia will take a substantial portion of the waters of a coastal river into the inland. Along the route a very large natural depression has been developed as a reservoir to store surplus waters when required. This storage, Toolondo Reservoir, has a capacity of approximately 58,000 acre feet.

The completion of Rocklands Reservoir and the connecting channels has given security against failure of water supply for domestic and stock purposes to the great primary producing areas of the Wimmera and Mallee.

### *Walpeup West.*

This district supplied with water from underground sources comprises an area of approximately 2,393 square miles situated between the township of Underbool and the South Australian Border.

Fifty-five bores with windmill and tank equipment are maintained in this district by the Commission.

### *Millewa.*

The Yelta and Carwarp waterworks districts have now been combined with the Millewa District making a total area of 822 square miles which is supplied with water from pumps on the River Murray at Merbein, Red Cliffs, and Cullulleraine, respectively.

### *Tyntynder North.*

Covering an area of 385 square miles, this district again obtained the greater portion of its water from the River Murray by means of the pumping station at Robinvale. The Wimmera-Mallee Domestic and Stock System supplied the remainder.

### SAND-DRIFT.

The planting of 1,080 acres of rye corn on channel banks and areas liable to drift, together with the campaign to prevent fallowing of areas liable to drift has reduced the amount of sand to be removed from the channels to less than the previous year.

For the first time Briscoe Ditchers were used for sand cleaning, approximately 840 miles of channels being cleaned by this method which proved very satisfactory.

Although most of the channel cleaning is now being carried out by the use of mechanical equipment, the rapidly increasing costs of horse hire and wages for scoopmen are an indication of the general trend in costs.

The following table shows the cost of removal of sand from the Wimmera-Mallee domestic and stock channels from 1945-46.

Figures for earlier years since 1928-29 are contained in previous reports.

	Financial Year.			Calendar Year.	
	Cost per Fortnight for Horse Teams.	Approximate Quantity of Sand Removed.	Total Cost.	Year.	Total Cost.
	£	cubic yards.	£		£
1945-46 .. .. .	42	12,297,000	322,827	1945	312,419
1946-47 .. .. .	43	6,954,000	187,017	1946	249,284
1947-48 .. .. .	46	2,440,000	70,179	1947	92,193
1948-49 .. .. .	64	1,540,000	61,629	1948	55,876
1949-50 .. .. .	68	1,187,000	52,437	1949	57,866
1950-51 .. .. .	84	1,159,000	60,852	1950	53,262
1951-52 .. .. .	96	1,348,000	80,922	1951	70,479
1952-53 .. .. .	106	1,297,000	69,827	1952	87,874

#### IRRIGATION DISTRICTS.

*Nyah.*

Six general irrigations and one special pumping for domestic and stock requirements were provided during the year.

The season for production of dried fruit was again very good, and possibly the best experienced for many years.

Good crops and favourable drying conditions made it possible for the district to produce its highest return.

Reports from packing sheds show a total yield of 3,371 tons compared with 2,910 tons in 1952, 1,484 tons in 1951, and 2,092 tons in 1950.

The previous highest yield was 3,352 tons in 1944.

The 1953 tonnage of 3,371 tons represents the amount of dried fruit received at the packing sheds, but does not include consignments of fresh fruit to markets or distilleries. These consignments, owing to very favourable drying conditions, were not as heavy as in previous years.

Particulars of the six irrigations given in 1952-53 are:—

Irrigation Number.	Period.	Acre Feet Pumped.	Equivalent Average Depth per Watering.
			inches.
1	11th September, 1952, to 1st October, 1952 .. ..	2,001	8·1
2	12th November, 1952, to 25th November, 1952 .. ..	1,180	5·6
3	4th December, 1952, to 21st December, 1952 .. ..	1,543	6·1
4	31st December, 1952, to 19th January, 1953 .. ..	1,942	7·8
5*	28th January, 1953, to 30th January, 1953 .. ..	1,657	6·7
	3rd February, 1953, to 19th February, 1953 .. ..		
6	15th April, 1953, to 2nd May, 1953 .. ..	1,682	7·8
	Total Season 1952-53 .. ..	10,005	7·0

\* Irrigation interrupted by rain.

Figures do not include special domestic and stock irrigation 19th to 24th March, 1953 = 204 acre feet.

*Red Cliffs-Merbein.*

Irrigation commenced on 20th August, 1952, in Red Cliffs and on 3rd September, 1952, in Merbein.

Water was made available for six irrigations in both districts and in addition there were a number of special irrigations as under:—

Special Citrus .. ..	Merbein—4th to 8th August, 1952.
	Red Cliffs—6th to 12th August, 1952.
Run Through .. ..	Red Cliffs—17th to 19th September, 1952.
Harvest Run Through ..	Merbein—2nd to 5th February, 1953.
	Red Cliffs—7th to 10th February, 1953.
Special Irrigation .. ..	Merbein—3rd to 11th March, 1953.
	Red Cliffs—5th to 10th March, 1953.
	Yelta—10th to 11th March, 1953.



The season was exceptionally good and favourable drying conditions made it possible for the districts to produce their highest return. The production of dried fruits in these two districts amounted to 51,801 tons as compared with 42,901 tons in the previous year.

Particulars of the six irrigations given in 1952-53 are :—

*Red Cliffs.*

Irrigation Number.	Period.	Acre Feet Pumped.	Equivalent Average Depth per Watering.
			inches.
1	20th August, 1952, to 19th September, 1952 .. ..	9,648.5	10.9
2*	21st October, 1952, to 22nd October, 1952 .. ..	6,500.5	7.4
	4th November, 1952, to 26th November, 1952 .. ..		
3	9th December, 1952, to 5th January, 1953 .. ..	8,222.2	8.8
4	14th January, 1953, to 10th February, 1953 .. ..	7,937.1	9.7
5	31st March, 1953, to 26th April, 1953 .. ..	7,752.0	8.2
6	5th May, 1953, to 18th May, 1953 .. ..	3,088.9	6.2
	Total Season 1952-53 .. ..	43,149.2	8.5

\* Irrigation interrupted owing to rain.

Figures do not include—

Special citrus watering 6th to 12th August, 1952 =  $197\frac{1}{2}$  acres = 241.2 acre feet.

Run through 17th to 19th September, 1952 =  $380\frac{3}{4}$  acres = 410.6 acre feet.

Harvest run through 7th to 10th February, 1953 = 913 acres = 1,123.4 acre feet.

Special watering 5th to 10th March, 1953 =  $405\frac{1}{4}$  acres = 523.5 acre feet.

*Merbein.*

Irrigation Number.	Period.	Acre Feet Pumped.	Equivalent Average Depth per Watering.
			inches.
1	3rd September, 1952, to 27th September, 1952 .. ..	7,358.0	10.8
2	11th November, 1952, to 30th November, 1952 .. ..	5,369.2	8.4
3	16th December, 1952, to 4th January, 1953 .. ..	5,764.4	8.8
4	13th January, 1953, to 5th February, 1953 .. ..	6,716.3	8.1
5	1st April, 1953, to 23rd April, 1953 .. ..	5,797.9	9.0
6	13th May, 1953, to 27th May, 1953 .. ..	3,044.6	6.5
	Total Season 1952-53 .. ..	34,050.4	8.6

Figures do not include—

Special citrus watering 4th to 8th August, 1952 = 484 acres = 405.7 acre feet.

Harvest run through 2nd to 5th February, 1953 = 2,485 acres.

Special irrigation 3rd to 11th March, 1953 = 1,017 acres = 1,100 acre feet.

Yelta special irrigation 10th to 11th March, 1953 = 96 acres = 48 acre feet.

*Robinvale.*

With the settlement of the 8th allocation in February, 1953, all blocks are now occupied, totalling 166.

Four allocations covering 1,500 acres are now producing dried fruit, the harvest for 1953 being 2,716 tons.

The averages per allocation are as follows :—

	tons.
29 blocks 4th year bearing average per block ..	32.8
24 blocks 3rd year bearing average per block ..	29.8
32 blocks 2nd year bearing average per block ..	25.9
15 blocks 1st year bearing average per block ..	15.25

The total plantings to date are :—

	acres.
Sultanas and Gordos .. ..	2,265
Waltham Cross .. ..	129
Other Vines .. ..	35
Citrus .. ..	165
Mixed Trees .. ..	44
Total .. ..	2,638

Dethridge meter wheels have been installed on 143 blocks throughout the settlement.

Six general irrigations and two special Gordo, Citrus and Tank waterings were supplied during the year, details of which are as under :—

Irrigation Number.	Period.					Acre Feet Pumped.
1	2nd September, 1952, to 23rd September, 1952	..	..	..	..	2,207·9
2*	21st October, 1952, to 25th October, 1952	..	..	..	..	486·3
3	25th November, 1952, to 9th December, 1952	..	..	..	..	1,349·4
4	19th December, 1952, to 7th January, 1953	..	..	..	..	1,545·0
5	14th January, 1953, to 2nd February, 1953	..	..	..	..	1,808·75
6	8th April, 1953, to 24th April, 1953	..	..	..	..	1,207·1
	Total Season 1952-53	..	..	..	..	8,604·45

\* Irrigation abandoned owing to rain.

Figures do not include two special Gordo, citrus, and tank waterings—  
11th to 19th February, 1953 = 507·85 acre feet.  
11th to 13th March, 1953 = 194·5 acre feet.

*Robinvale Township.*

Large extensions to local packing sheds were made to deal with increased production.  
The new office was completed and is now occupied by this Commission, the Soldier Settlement Commission, and the Department of Agriculture.  
Light and power mains have been extended by Swan Hill Electric Supply to the whole of the settlement.  
The urban pumping unit has been converted to electric power.

DRAINAGE.

*Red Cliffs-Merbein.*

In Red Cliffs Section, the timber linings of 46 silt boxes were replaced with concrete slabs and eight with 24-in. diameter reinforced concrete pipes.  
A total of 84 boxes were replaced to 30th June, 1953.  
In Merbein section, the timber linings of 82 silt boxes were replaced with 24-in. diameter reinforced concrete pipes making a total of 103 boxes replaced to 30th June, 1953.  
In both districts, the clearing of encrustations in drainage laterals, which were greatly reducing capacity, is being carried out.

*Nyah.*

The sub-surface drainage scheme of total length of 19 miles 67 chains, functioned satisfactorily despite some trouble caused to outfalls by the high river during the spring period of the irrigation season.

MECHANICAL BRANCH.

MAIN PUMPING STATIONS.

The Commission's main pumping stations situated on or near the River Murray, supply water for the Irrigation Districts of Red Cliffs-Merbein, Nyah, Robinvale and Tresco, and the Waterworks Districts of Millewa, Yelta, Carwarp, and Tyntynder North.  
In addition there are several smaller pumping stations for town water supplies, and for domestic and stock supplies to lands above gravitational levels in the Waterworks Districts of Long Lake, Normanville, Ouyen, Tyrrell, Tyrrell West, Western Wimmera, and Wimmera United.

Further progress is being made with replacement and modernization of pumping plant to obtain greater efficiency and reliability of operation. Construction and replacement works planned or in hand during the year were as follows :—

#### IRRIGATION PUMPING STATIONS.

*Red Cliffs*.—Contracts have been let for the supply of new electric motor-driven pumps having a total capacity of 260 cusecs for installation during the next three years ; and preliminary work has commenced.

*Merbein*.—Installation of an additional 30 cusecs electric control unit is proceeding, and when complete will greatly improve the operating efficiency of this station.

*Robinvale*.—Contracts have been let for the installation of an additional 20-cusec diesel unit.

*Tresco*.—Installation of a new diesel unit of 25 cusecs output was completed at the main station, and a new electric unit of 10 cusecs output installed at the relift station.

#### DOMESTIC AND STOCK PUMPING STATIONS.

*Millewa*.—Contracts have been let for the installation of three diesel units having a total capacity of 55 cusecs, to replace the old steam plant at the main station.

*Cannie Ridge*.—Installation of a new diesel engine driven plant of 11 cusecs output has been completed.

#### URBAN PUMPING PLANTS.

The construction of a booster pumping station for water supply to the city of Warrnambool was completed to meet the summer demand. New plant or improvements were completed at Minyip, Rupanyup, Piangil, Merbein, and Red Cliffs pumping plants.

#### DRAINAGE PUMPING PLANTS.

A new drainage pumping plant was installed in the Woorinen Irrigation District. Pumping plants have been installed at Carrum and Mordialloc for relief of flooding in the Chelsea District.

#### FUEL SUPPLY.

The supply of fuel for pumping stations has improved considerably during the past year, including the resumption of briquette deliveries to the Red Cliffs pumping station from December, 1952. Adequate supplies of firewood are available at other steam pumping stations with the exception of Millewa stations. With the installation of new diesel engine-driven pumps at the Millewa main station next year, the difficulty of obtaining adequate firewood supplies in this area should be overcome. At the end of this section is a schedule of the Commission's pumping stations.

#### TRANSPORT.

The total number of motor vehicles operated by the Commission at the end of the year was 520, including 24 motor cycles, 35 cars, 255 utility trucks, and 206 other types, mainly heavy trucks.

Of this total, 125 vehicles were operated for the Commission by the Utah Construction Company on the Big Eildon project.

Commission-owned vehicles travelled a total distance of 5,138,303 miles during the year, while vehicles owned by and hired from Commission staff and employees travelled 570,762 miles, the total distance travelled being 5,709,065 miles.

Sixty-two new vehicles were delivered to the Commission during the year, of which 4 were additions and 58 were for replacement of worn-out vehicles.

The heavy low-loading transporters covered a total distance of 19,253 miles during the year carrying heavy earth-moving plant.

#### CENTRAL PLANT WORKSHOPS, BENDIGO.

The operation of the Central Plant Workshops was restricted during the year, because of reduced plant usage on major construction works as a result of restriction in Loan Funds.

Repairs have been undertaken for other Government Authorities, and motor vehicle repair work was increased to offset the reduction of heavy plant repairs, and improve the economy of operation of the workshops.

## Schedule of Pumping Stations.

Districts.	Station.	Normal Output, Cusecs.	Static Lift Feet.	Total Installed B.H.P.	Particulars of Units.
<i>Irrigation.</i>					
Red Cliffs-Merbein ..	Red Cliffs Main ..	160	85	3,950	Two 110-cusec, steam turbine; One 50-cusec, steam engine
Red Cliffs-Merbein ..	Red Cliffs relifts ..	100	30 max.	380	Three 28-cusec, four 8-cusec electric
Red Cliffs-Merbein ..	Merbein .. ..	150	80	2,175	Three 50-cusec, one 30-cusec electric
Nyah .. ..	Nyah .. ..	48	72	750	One 48-cusec, steam engine
Robinvale .. ..	Robinvale Main ..	60	77	1,560	Two 30-cusec, one 15-cusec steam engines; One 20-cusec diesel
Robinvale .. ..	Robinvale relifts ..	30	17 max.	130	One 12-cusec, one 6-cusec, three 4-cusec diesels
Tresco .. ..	Tresco Main ..	25	19	250	Two 25-cusec diesel and steam engines
Tresco .. ..	Tresco relift ..	10	27 max.	40	One 10-cusec, electric or diesel
Tresco .. ..	Tresco West ..	12	4	15	One 12-cusec, electric axial flow pump
Tresco .. ..	Tresco West relifts	9	42 max.	70	Two 4½-cusec, electric
<i>Waterworks (Domestic and Stock).</i>					
Long Lake .. ..	Cannie Ridge ..	11	72	80	Two 5½-cusec, diesel
Carwarp .. ..	Carwarp .. ..	4	27	30	One 4-cusec, portable steam engine
Tyntynder North ..	Coreena .. ..	12	18	50	One 12-cusec, portable steam engine
Tyrrell West .. ..	Dering .. ..	4	40	30	One 4-cusec, diesel
Tyrrell .. ..	Eureka .. ..	4	45	30	One 4-cusec, diesel
Normanville .. ..	Gredgwin .. ..	6	78	120	One 6-cusec, diesel
North Wimmera ..	Jung Dooen ..	12	26	80	One 12-cusec, diesel
Wimmera United ..	Kewell East ..	5	22	..	One 5-cusec, portable tractor
Wimmera United ..	Murtoa North ..	3	15	..	One 3-cusec, portable tractor
Millewa .. ..	Millewa Main ..	55	93	1,080	Three 18-cusec, diesel
Millewa .. ..	Millewa "A" ..	100	10	250	Two 50-cusec, steam engine
Millewa .. ..	Millewa "B" ..	50	18	250	One 50-cusec, steam engine
Millewa .. ..	Millewa "C" ..	13	135	400	Two 6½-cusec, diesel
West Wimmera ..	Pimpinio .. ..	5	38	40	One 5-cusec, diesel
Ouyen .. ..	Walpeup .. ..	5	100	120	Two 3-cusec, diesel
Total .. ..	.. ..	891	..	11,880	

*Urban Pumping Plants.*—Pumping plants are installed for water supply to 45 towns mainly in the Wimmera-Mallee and Loddon Divisions, and booster pumps for main urban supply to Warrnambool and Dandenong-Springvale, the total rate of pumping being 22.4 million gallons per day.

*Drainage Pumping Plants.*—Pumping plants for the relief of flooding in low-lying areas are installed in the Irrigation Districts of Red Cliffs-Merbein, Swan Hill, and Koondrook, and in the urban district of Chelsea.

## INVESTIGATIONS AND DESIGNS BRANCH.

## RIVER MURRAY.

*Hume Reservoir Enlargement.*

Investigations carried out in collaboration with engineers of the Public Works Department of New South Wales were continued during the year in connexion with plans for an enlargement to 2½ million acre feet, as recommended by the River Murray Commission to the Contracting Governments of the River Murray Agreement. Some designs of subsidiary works were prepared on the same basis and construction work put in hand up to the approved 2,000,000 acre feet level, but obviously this cannot be extended until there is agreement between the Contracting Governments for enlargement to 2½ million acre feet.

A final decision on the question of capacity is urgently required because of the need for early action in regard to road and rail relocations and land resumptions.

*Marraboar Weir.*

Following a request of the River Murray Commission for an investigation of this proposal the report of the Marraboar Weir Committee was revised and brought up to date in consultation with engineers of the Public Works Department, New South Wales, and the Irrigation and Water Conservation Commission, New South Wales, and forwarded to the River Murray Commission.

*Torrumbarry Weir.*

At the request of the River Murray Commission a report, plan, and estimate for a fish ladder were prepared.

*Mildura Weir.*

An investigation of means of overcoming sand accumulation on the sill was commenced, and it is anticipated that model tests will be carried out during the current year.

## CENTRAL GIPPSLAND IRRIGATION PROJECT.

*Glenmaggie Reservoir Enlargement.*

Contracts were concluded with overseas firms for the manufacture of spillway and sluice gates and metal work for enlarged outlets from the Glenmaggie Dam.

Following advice from the State Electricity Commission that the installation of hydraulic turbines at the new outlets is not desired, the outlets have been redesigned to effect economies, but the new designs will not preclude the possibility later of power generation.

Satisfactory hydraulic model experiments have been carried out regarding the efficiency of the needle valves and to study the problem of energy dissipation at outlet works.

*Maffra Weir.*

A contract was concluded with an overseas firm for the fabrication of three large lift gates, and the sluices for the offtake regulator and appurtenances.

Foundation investigation was extended and a number of additional bores were sunk to define more closely the depth to which sheet piling should be driven.

*Channel Works, &c.*

Investigations and designs of channels and structures in the Nambrook-Denison area and other extensions in the Central Gippsland area have been in progress during the year. In the Soldier Settlement alone, designs for 130 miles of channels have now been completed. Continuous contact was maintained with officers of the Soldier Settlement Commission and Agriculture Department on questions affecting subdivisions and drainage.

Provisional Registers of Lands were prepared for the Soldier Settlement and the Heyfield Extension and some further investigations were made of the proposed final location of the Main Eastern Channel which will offtake at Maffra Weir.

*Thomson River Diversion (Cowwarr Weir and Channel).*

The investigation of this proposal was continued during the year and progress made with the preparation of designs and estimates.

## GOULBURN IRRIGATION SYSTEM.

*Eildon Project.*

Two engineers of the Investigations and Designs Branch (Messrs. R. A. Horsfall and L. P. Ilott) returned from Germany during the year after making investigations and arrangements in connexion with metalwork and machinery on order in that country.

Model tests of the new Eildon spillway were concluded during the year and valuable results of this investigation have now been applied to the Eildon Project.

A contract was concluded for manufacture of the gates and hoists of the offtake regulator.

*East Goulburn Main Channel.*

Drawings of the offtake regulator were completed, also agreement reached with the Country Roads Board regarding the new crossing of the Goulburn Valley Highway at Wahring.

Surveys and investigations of the channel and other structures were continued during the year.

*Waranga-Western Main Channel.*

Work during the year has been limited to the study of recently obtained survey information and an investigation of a regime section.

*Remodelling of Channel System, &c.*

Early in the year a branch office was completed at Tatura, and the investigation for the enlargement of the Goulburn Channel System to take the increased quantities of water from the Big Eildon Reservoir—possibly the most important investigation in hand at the present time—has been vigorously pursued.

A preliminary land classification covering 770,000 acres has been completed and soil surveys are now available in Boort and Deakin Districts. With the completion of the soil survey in Tragowel Plains District (in progress) information will be available as to the suitability for irrigation of all land in the Goulburn System.

The investigation of existing channels—largely fact-finding—was continued and information is available covering the East Goulburn, Rodney, and Rochester Districts. Two survey parties commenced work to obtain details for Main Channels (existing and projected) in Rodney.

Computers are engaged plotting and calculating areas of commanded and suitable land from information as it comes to hand and work on the preparation of base plans on a scale of 1 inch = 40 chains has made satisfactory progress, approximately 20 having been completed during the year. These plans show works of supply, land tenure, roads, &c., and are a basic requirement for planning the distribution of additional water to be available after completion of the Eildon project.

#### LODDON RIVER DEVELOPMENT.

##### *Cairn Curran Dam.*

Contracts, as follows, were concluded for manufacture overseas of equipment :—

- (a) Three large spillway gates with hoists, &c.
- (b) Two deep sluices for upstream control of the outlet conduits.
- (c) The access bridge to the outlet tower.
- (d) The 42-in. outlet conduit (this was subsequently cancelled in favour of local supply which is now much easier).
- (e) One 42-in. motor operated regulating valve.
- (f) One 36-in. motor operated sluice valve.
- (g) 42-in. and 72-in. cast iron pipes for upstream ends of outlet conduits.
- (h) Trash racks and other details.

Some of this material has already reached Melbourne, and all is due for delivery during the current financial year.

A very successful series of model tests was carried out to ascertain the most economical design for the lower end of the spillway and as a result it now appears quite feasible to eliminate the proposed concrete dissipator.

##### *Loddon Weir.*

A contract was concluded for the manufacture of 28 sluice gates to replace the existing timber bars and to permit accurate regulation at this weir, a much more important structure than is perhaps generally known. It provides means by which—

- (a) the flow of the Loddon may be diverted to the Waranga-Mallee Channel;  
and
- (b) water from Waranga Reservoir can cross the Loddon.

#### URBAN SUPPLIES.

##### *Mornington Peninsula District.*

An investigation of the outlets of Frankston Reservoir was completed. The preparation of drawings of works for the Tarago River Diversion was continued, but at a reduced rate because on-site work is temporarily suspended.

##### *Otway District.*

A general investigation into means of improving the water supply from the catchments at the western end of the Otways is in progress and a detailed investigation of the enlargement of Mt. Ewen Reservoir is in hand. A boring plant was on the site at the close of the year.

The Catchment areas have been photographed from the air and the Lands Department has the preparation of maps in hand.

Additional gauging stations are to be established during the current year.

##### *Bellarine System.*

Investigation of the West Barwon dam sites is proceeding and the Commission's diamond drilling plant was active on these sites for the whole year. After studies carried out by the Commission's Geological staff and on the advice of the Chief Government Geologist, investigation of the upstream site has been discontinued in favour of a site immediately below the confluence of Munday Creek.

Investigations for the enlargement of the Wurdee Boluc Inlet Channel and Reservoir were continued and some survey information is now available. Designs were made for the replacement of the flume over the East Barwon River and documents prepared for tenders. Work is expected to commence during the current year.

The landslide which formed a lake on the East Barwon River was studied and surveyed in some detail and a gauge has been established.

#### *Coliban System.*

Contracts were concluded for valves and steelwork required in connexion with the installation of a new outlet from Malmsbury Reservoir.

#### *Bacchus Marsh.*

An investigation, including experiments at the Hydraulic Research Station, was made to obviate or reduce blockage by blanket weed of screens protecting the intake of the pump. A rotating screen was designed and drawings prepared.

### LATROBE VALLEY.

An investigation of the water resources of the Latrobe Valley in relation to the likely future demands of the State Electricity Commission, Gas and Fuel Corporation, towns and industry, was commenced during the year and progress reports will be prepared from time to time. Steps are being taken to obtain aerial surveys of possible reservoir sites on the Latrobe, Tanjil and other streams.

### MURRAY VALLEY IRRIGATION DISTRICT.

A subdivisional layout was prepared (in consultation with officers of the Soldier Settlement Commission) of an additional area of 5,400 acres (4,200 acres commanded and suitable) adjoining the existing settlement in a location south-west of Strathmerton.

The design of outfalls from irrigation channels was continued but little was attempted on the detailed design of the drainage system pending the conclusion of litigation which may influence decisions regarding drainage work generally in irrigation districts throughout the State.

### ROBINVALE IRRIGATION DISTRICT.

Plans covering the design of the internal layout of blocks being prepared for allocation to settlers were prepared for the Soldier Settlement Commission, and progress was made with the preparation of final "as built" plans for record purposes.

### TORRUMBARRY SYSTEM.

#### *Gunbower National Channel.*

A design and estimate of cost was prepared for a new offtake regulator to replace the existing timber structure which has reached the end of its useful life after 60 years service.

#### *Macorna Channel.*

After an investigation of various alternatives, a design and estimate was prepared for a pre-cast concrete flume to replace the existing old timber structure at the Pyramid Creek crossing.

### RIVER GAUGING.

New gauging stations were established during the year at—

- Agnes River at "The Falls",
- Avon River at Buxtons,
- Birregurra Creek at Ricketts Marsh,
- Bruthen Creek at Carrajung Lower,
- Cudgewa Creek at Berringama,
- Macalister River at Licola,
- Morwell River at Siggin's Bridge,
- Morwell River (west branch) at Olsen's Bridge,
- Narracan Creek at Thorpdale,
- Thomson River at "The Narrows".

## OTHER ACTIVITIES.

*Regional Resources Surveys.*

The preparation of plans, data, and descriptive matter for the Central Planning Authority was continued during the year for the Central Highlands, Corangamite, Wimmera, and Glenelg Regions (water resources).

*Pyke's Creek Reservoir.*

The preparation of plans and estimates for reconstruction of the outlet works is in hand and arrangements were made for the supply of a 30-in. sluice valve for this job.

*Measurement of Water.*

Experiments at the Hydraulic Research Station on a "midget" Dethridge-type meter wheel for small flows were continued and modifications are being tried to obtain greater sensitivity.

*Wannon River Investigation.*

Some further reconnaissance and preliminary surveys were made of the Jimmy's Creek reservoir site.

*Broken River Investigation.*

Work was confined to further geological study and the preparation of a drilling programme.

*Standard Irrigation Structures.*

Progress was made with these designs and the use of pre-cast concrete is under consideration.

*Pre-stressed Concrete Construction.*

Technical developments in this field are being carefully studied with a view to achieving greater economy in the construction of larger structures, such as long span channel bridges.

*Hydraulic Research.*

The Werribee Hydraulic Research Station was active during the year and is now established as an essential and valuable adjunct to the Commission's activities. The work carried out is described elsewhere under the various projects.

## SURVEY BRANCH.

*Training.*

Two pupil surveyors trained under Commission staff surveyors qualified as Licensed Surveyors.

The Third Survey Training School was held at Numurkah and nine trainees qualified as Survey Assistants.

*Goulburn Irrigation System.*

On the East Goulburn Channel, sections plans have been prepared for 31 miles to the Broken River crossing and field work has been completed to 45 miles.

In the Tragowel Plains area, 26,000 acres in the Parish of Mologa and 11,000 acres in the Parish of Macorna have been covered by contour surveys. A contour plan of the Parish of Tragowel has been completed.

*Central Gippsland Irrigation System.*

A precise survey has been completed of the Glenmaggie Dam spillway in connexion with the design of the crest gates.

*Wimmera.*

Surveys to produce plans showing 3-in. contours over an area of approximately 4,000 acres near Horsham are proceeding for Soldier Settlement purposes.

*Eildon Reservoir.*

In addition to construction surveys, the new township of Bonnie Doon has been set out and road access and land acquisition surveys are proceeding.



*Hume Reservoir.*

Further surveys have been carried out at the new township at Bolga and land acquisitions connected with the raising of the full supply level are proceeding.

*Bellarine.*

Surveys in connexion with the proposed raising of Wurdee Boluc Reservoir and the remodelling of the Wurdee Boluc Inlet Channel have commenced.

Alternative drainage lines were located and the adopted line set out for construction of a large channel from Lough Calvert to Birregurra Creek.

## CONSTRUCTION BRANCH.

*Rocklands Reservoir Completed.*

Unusually wet weather conditions during Spring 1952 hampered construction of the Rocklands Dam referred to elsewhere in this Report, but favourable conditions during the summer months enabled the dam to be completed by May, 1953, except for minor details, and the outlet channel was sufficiently advanced at that time to convey water.

The cleaning up of the construction site has been commenced, and arrangements made for the transfer of considerable quantities of plant and miscellaneous stores to other Commission projects. Surplus buildings, plant and miscellaneous stores will be offered for sale at auction, at a later date.

A total of 120 casual employees were employed in July, 1952, and this number has been reduced to 22 by June, 1953.

*Cairn Curran Reservoir.*

No on-site work was carried out at Cairn Curran during the year. Buildings were maintained and construction plant and equipment remaining on the site was kept in good condition by a small caretaking staff.

The first components of the spillway gates and outlet equipment to be fabricated under contract, in West Germany, are expected to be delivered during August, 1953.

*Murray Valley Irrigation District.*

The limitation which had to be placed on the expenditure of Loan Funds enabled the channel reticulation system to be extended by only 34 miles during the year. This made the total length of channels completed to date 554 miles. Some 295 structures were completed on the new channels.

The Commission continued the clearing, grading, and sowing of pastures and lucerne for the Soldier Settlement Commission. This work involved the clearing of 811 acres, ploughing of 3,315 acres, cultivating 15,886 acres, and the grading and check banking of some 5,300 acres. 3,040 acres of pasture and 1,976 acres of lucerne were sown, and 200 acres of orchards planted. The total number of farms and orchards to be allocated to ex-servicemen within the district is 627, of which 445 have already been allotted and occupied.

The number of men employed on the works has averaged 230. Of these, 60 were employed on channel construction, and the remainder on land preparation for the Soldier Settlement Commission.

*Goulburn-Waranga No. 2 Main Channel.*

Full use was made by the contractors of the total funds which could be made available to this project. During November, 1952, a large walking dragline of 6 cubic yard bucket capacity commenced operations, and contributed largely to the satisfactory progress of the contract.

During the year about 1,200,000 cubic yards of excavation was completed, making the total to the end of June, 2,140,000 cubic yards. No progress was made with the construction of major structures, such as bridges and regulators, as loan funds were not available for this purpose.

*Central Gippsland Irrigation Project.*

During the year a further 10 miles of earthworks were completed by piecework contractors with horse-drawn scoops on Nambrok-Denison spur channels, making a total of 78 miles completed.

The Thomson River Syphon, the reinforced concrete flume, and several large structures on the Main Southern Channel, were completed during the year.

These works enabled the first irrigation water to be run from Glenmaggie Reservoir via the Main Southern Channel to the Nambrok-Denison Area of the Central Gippsland District.

The official ceremony to mark this event was performed by the Hon. R. K. Brose, M.L.A., then Minister of Water Supply, on 16th October, 1952.

*Tallangatta Township Removal.*

The greater part of the township of Tallangatta will be submerged when the Hume Reservoir is enlarged as planned in the next few years.

The plan for the township has been completed and sites for public buildings, business premises, and industrial purposes, allocated. Arrangements are now being made for the allocation of sites to the owners of dwellings in the existing township.

The construction of a pumping station on the Hume Reservoir, and water supply pipe reticulation of the township is in hand. Roads have been formed and gravelled and electricity supply mains are being erected as they become necessary.

Twenty prefabricated houses to be used as quarters for staff and the housing of residents during the transfer of their own dwellings, have been delivered to the site and some of these are already occupied.

The erection of twelve cottages for key personnel is approaching completion.

A hutted camp with mess facilities for workmen has been erected on the site, together with store buildings, compound, and temporary offices.

An average total of fifty-nine casual employees were employed by the Commission during the year.

## HOUSING BRANCH.

RESIDENCES AND BUILDINGS OTHER THAN THOSE AT CONSTRUCTION JOBS  
AND TALLANGATTA.

In country districts, 32 houses were built or purchased for Commission staff, and 4 additional houses were under construction at 30th June, 1953.

The total number of Commission's residences completed or under construction, including 10 houses on River Murray Commission works, but excluding houses on construction jobs and Tallangatta, is 492. In addition, District offices at Robinvale and Chelsea were completed and occupied.

## PLANT.

The continuation of Loan Fund restrictions resulted in a further curtailment of plant purchases. The processing of idle plant to permit of prolonged storage has involved considerable expenditure.

At the beginning of the year, there were still orders outstanding amounting to £225,990. Suppliers agreed to defer deliveries currently valued at £111,143, and to cancel orders to a value of £40,290. Delivery was taken, during the year, of plant items to a value of £86,149.

Due to the curtailment of the Commission's operations, it has been possible to make plant available for hire to Public Authorities and private persons carrying out works of an approved nature. The income from this external source of hire amounted to £39,000 during the year.

## MAINTENANCE OF MAJOR STRUCTURES.

## GENERAL.

With rainfall above average, flooding was experienced on all rivers and storages were at comparatively high levels for the greater part of the year. A summary of maximum and minimum levels at reservoirs is contained in the following schedule:

Reservoir.	Rainfall.	F.S.L.	Water Level.	
			Maximum.	Minimum.
	Points.	Feet.	Feet.	Feet.
Hume .. .. .	2,962	610·00	613·75	588·04
Yarrawonga .. .. .	1,616	412·80	412·85	391·10
Torrumbarry .. .. .	1,954	285·00	285·20	281·50
Mildura .. .. .	983	116·15	116·25	109·00
Laanecoorie* .. .. .	1,434	527·00	528·80	..
Pykes Creek .. .. .	2,821	1,306·00	1,306·60	1,291·40
Melton .. .. .	2,087	273·00	273·50	257·70
Glenmaggie .. .. .	2,583	244·00	249·30	229·30
Goulburn .. .. .	1,901	408·00	409·30	407·00
Waranga .. .. .	2,109	398·00	398·08	382·25
Malmsbury .. .. .	2,876	1,477·05	1,477·05	1,459·05
Lauriston .. .. .	3,294	1,574·20	1,574·37	1,573·11
Upper Coliban .. .. .	3,105	1,652·00	1,652·18	1,629·06

\* Reservoir empty from 18th April, 1953 – 19th May, 1953.

*Hume Reservoir.* RIVER MURRAY WORKS.

The inspection gallery in the main embankment remained comparatively dry throughout the year. No movement of the concrete slabs was observed. A slight trace of algae was evident in the storage in the latter half of the year. The Reservoir was above F.S.L. from 1st July, 1952, to 16th February, 1953. Maximum level occurred on 22nd September, 1952, being R.L. 613·75 = 7·75 feet above the crest. During the year the spillway was raised by a low crest wall 4 feet in height to R.L. 610·00. This work was carried out by Public Works Department, New South Wales, for the River Murray Commission and increased the storage capacity by 132,000 acre feet to 1,382,000 acre feet.

*Yarrawonga Weir.*

Dry autumn conditions made it necessary to maintain the pool at F.S.L. until 16th May, 1953, after which date the pool was lowered to gate sill level, and the flood gates were inspected. Extensive scours downstream of the weir on the New South Wales side were filled and surfaced with protective material. Excellent progress was made with the development of lawns and gardens at the southern approach to the weir. Portion of this area has been fenced, graded, loamed, and grassed. Shade trees were planted in the unfenced section of this area. Diversions from the weir commenced on 22nd August, 1952, and continued until 16th May, 1953. During the 1952–53 irrigation season, the weir pool was maintained at or near F.S.L. In previous years a pool level 12 inches below F.S.L. has been adequate to meet diversion requirements.

*Torrumbarry Weir and Lock.*

The weir trestles were withdrawn on 10th June, 1952, and the river was in flood from the middle of July until the end of December, 1952. The trestles were replaced in the navigation pass on 9th January, 1953, and were in position at the end of the year.

*Mildura Weir and Lock.*

The weir trestles were withdrawn on 18th June, 1952, and the river was in flood from the end of July, 1952, to the middle of January, 1953. The trestles were replaced in the navigation pass on 12th February, 1953. The new standby trestle was placed in the river for the first time, replacing No. 1 trestle which was left on the parking area for reconditioning. Additional fixed timber was fitted to the new trestle as a trial in connexion with the proposal to fit additional fixed timber to all trestles. A high speed gear was fitted to the electric trestle winch and a new 7/8-in. diameter replacement cable also fitted to this winch.

On 9th June, 1952, a diver made an underwater inspection of the lock gates and valves. These were found to be in reasonably serviceable condition, but there had been considerable wear on the bearings of the valves.

The lawns and trees surrounding the lock were submerged by flood water for five and a half months and considerable work was necessary to restore this area to its usual attractive condition. Preparations are in hand for the Royal Visit to the Lock in 1954.

*Laanecoorie.*

## STATE WORKS.

Two reconditioned flood gates were installed on the spillway and the replaced gates were removed for reconditioning. Towards the complete overhaul of the 24 flood gates, 7 major gates have now been reconditioned, and installed.

*Melton Reservoir.*

High floods in June, 1952, moved loose rock from the pool and river banks immediately downstream of the dam and this material formed a barrier across the river channel between the dam and the road bridge. Considerable erosion occurred along the downstream toe of the embankment. Filling and stone have been placed to restore this part of the structure.

*Glenmaggie Reservoir.*

The high floods during the year caused extensive scouring along training walls on both sides of the river. Maximum flood level occurred on 13th December, 1952, when water level was R.L. 249.30 or 5.30 feet above crest level.

*Goulburn Weir.*

Frequent flooding was experienced and this caused some displacement of the stone beaching on the bed of the eastern side of the river channel. This damage was repaired.

*Waranga Reservoir.*

The reservoir was at a comparatively high level throughout the year. Wave action caused extensive damage to the grouted beaching but all holes were satisfactorily repaired.

*Upper Coliban Reservoir.*

Further progress was made in the raising the clay pug core in the embankment. This work has now been completed for approximately half the length of the bank.

## BIG EILDON PROJECT.

Very good progress was made during the year on the construction of the Big Eildon Dam, mainly as a result of excellent weather. It is now anticipated that the Dam can be completed early in 1956 providing sufficient Loan Funds are made available. Had there been no restriction of Loan Funds, the Dam could have been finished much earlier and at considerably less cost.

The number of men employed by Utah Construction Limited averaged 1,318 for the year, while the Commission's staff supervising Utah's various contracts averaged 135.

*Township Construction.*

All construction work in the township during the year was carried out by Utah Construction Limited. Sixty-one temporary houses were completed making the total number of houses at Eildon 488, made up of 303 houses in the permanent town, and 172 temporary houses and 13 reclaimed houses in the temporary town. In addition, the residential cafe, theatre, and 7 permanent shops in the township centre were completed. The water supply reticulation mains in the township and works area and the sewage works comprising the sewage pumping station, treatment plant, sewage disposal area and outfall sewer, were also completed.

Good progress was made on the erection of the steel access bridge to the township. It is expected that it will be opened for traffic early in the coming year.

*Dam Construction.*

Following the very wet winter during which the number of workmen was at a minimum, large-scale operations were resumed in November. 1,480,000 cubic yards of rock and 735,000 cubic yards of common materials were excavated from the dam foundations and the power house and spillway excavations during the year.

The quantity of fill placed in the embankment during the year was 3,329,000 cubic yards of rock, gravel, sandy loam, and clay, the total amount placed to 30th June, 1953, being 3,810,000 cubic yards. These materials were obtained from borrow pits and from the power house and spillway excavations.

The excavation of the 1,400 feet long 28-ft. diameter tunnel through Mount Sugarloaf from the intake tower to the power house was completed, the length driven during the year being 790 feet involving the excavation of 19,000 cubic yards of rock.

The 23-ft. diameter steel lining of the outlet tunnel was fabricated in the tunnel fabrication plant in lengths of 35 feet for the  $\frac{5}{8}$ -in. thick plate, 28 feet for the 1-in. and 21 feet for the  $1\frac{1}{4}$ -in. plate. The fabricated sections were placed in position in the tunnel and field welded together. Concrete was then placed between the steel tunnel lining and the rock by means of an 8-in. pump-crete concrete pump after which the area was pressure grouted.

During the year a total length of 1,106 feet of steel lining was placed in position and just over 10,000 cubic yards of concrete was placed behind the steel lining over a length of 1,081 feet.

Tunnel grouting was commenced at the intake tower end and comprised the grouting of eight 30-ft. deep holes into the foundation rock in rings 10 ft. 6 in. apart. A length of 570 feet of the tunnel was grouted and 50,000 cubic feet of grout was injected requiring approximately 150 tons of cement.

Drilling and grouting of the dam foundation rock was continued throughout most of the year with the grout plant working on a three-shift basis for six days a week. Curtain grouting on the line of the cut-off wall was completed to a depth of 150 feet from chainage 00 to chainage 2,667 feet and along the line of the cap wall to a similar depth from chainage 291 feet to chainage 2,808 feet. Approximately 350 tons of cement were used in the foundation grouting.

The construction of the power house, spillway chute and dissipator walls and slab and the intake tower proceeded very rapidly and the following quantities of concrete were placed during the year:—

Power House	..	18,250 c.y.	Spillway	..	24,580 c.y.
Intake Tower	..	1,800 c.y.	Cut-off Wall	..	2,710 c.y.
Cap Wall	..	1,140 c.y.			

a total of 48,480 cubic yards.

The temporary outlet works comprising a 10-ft. diameter tunnel excavation through the existing spillway and a pipe in open cut leading to the intake tower with a fixed wheel service gate and hoist were completed. The free overfall and gate sections of the existing spillway were raised by 3 feet, with provision for a further raising of 2 feet, to increase the reservoir storage capacity and so compensate for the restriction in the quantity of water available due to the higher level of the new offtake.

The large workshop established by the Contractor has been operating on a three-shift basis to maintain the large number of items of equipment in an efficient mechanical condition.

Reconstruction and sealing by the Country Roads Board of the remaining sections of the Upper Goulburn-road from the railhead at Alexandra to Eildon was continued, and considerable progress was made on the construction of the reinforced bridges and culverts on this road. 22,700 tons of equipment and materials were transported from Alexandra to Eildon over the road during the year.

A total of 1,293,100 super feet of sawn timber was cut during the year at the Commission's sawmill. This timber was cut from 1,970,385 super feet of logs supplied by the Forests Commission from the Dry Creek Area.

The construction of the tunnel and penstocks involved considerable investigation work, and in this connexion the Defence Research Laboratories at Maribyrnong and Bendigo Industrial Factories were of great assistance in providing expert advice, carrying out tests, and annealing the plates for the tunnel lining.

The staff of the testing laboratory at Eildon has been engaged on detailed exploration and testing of the materials prior to their use in the dam, the carrying out of tests for the replacing of materials, and generally testing samples of the materials in the dam after placement as a check on the effectiveness of the construction operations. The quality of the concrete was continuously controlled and samples tested in the laboratory. Permanent testing equipment of various types was installed in the dam to record its behaviour. The information so obtained will assist in the designing of similar works in the future.

Due to insufficient funds, little progress was made on the road and rail deviations and the relocation of the township at Bonnie Doon, all of which have been made necessary by the construction of the reservoir. However, a Works Camp was established at Bonnie Doon, and it is expected that the removal of the township to its new site will be commenced shortly, while it is hoped that a considerable amount of work will be done on the road and rail deviations during the coming year.

## TOWN WATER SUPPLIES.

## COLIBAN SYSTEM.

The main storages of the Coliban System of Waterworks, comprising the Upper Coliban, Lauriston, and Malmsbury Reservoirs, with a combined storage capacity of 56,250 acre feet were full early in July. Due to the well distributed and more than average rainfall, the commencement of irrigation was deferred and reservoirs remained full until early in December. Throughout the ensuing summer and autumn dry conditions necessitated continuous delivery of water for all needs until early in April, and from then on a reducing scale until late in May. All district requirements for water were supplied during the year and to meet these demands 26,127 acre feet were withdrawn from the three main storages which were lowered to about the average draw down level by the end of the irrigation season.

The work of concrete lining and fluming of channels to reduce seepage losses in the conveyance of water has been continued, but because of shortage of funds, it was on a greatly reduced scale to that of previous years.

## MORNINGTON PENINSULA DISTRICT.

The Mornington Peninsula urban water system now supplies 27 towns including Longwarry, Bunyip, Garfield, Pakenham, Berwick, Dandenong, Springvale, Cranbourne, and Somerville; all the Port Phillip bayside towns from Aspendale to Point Nepean; and on Westernport Bay in addition to the Naval Base, the towns of Crib Point, Bittern, and Hastings.

Exceptional development in the Peninsula towns still continues, applications for new services during the twelve months being 1,519 bringing the total services for the system to 23,600, an increase of just on 100 per cent. during the past seven years.

Based on an allowance of 3·5 persons per tenement this would represent a population of 83,000 people, added to which there is a Christmas holiday influx variously estimated at between 10,000 and 15,000 people.

In addition to domestic services, irrigation water is supplied to 440 acres of market gardens, whilst many farms draw their stock and domestic requirements from the main pipelines throughout the system.

The Commission, however, is very greatly concerned with the water supply position to the Mornington Peninsula as it is already seriously overtaxed. Works which had been commenced for the diversion of the Tarago River into that system to improve the supply and meet the ever increasing demand had to be completely suspended last year owing to the limitation of Loan Funds. When the Tarago works are resumed and completed to the first stage together with the completion of the major distributary works, the amount of water available to the Mornington Peninsula will be doubled. This will permit the lifting of restrictions which the Commission is at present forced to impose upon consumers during the summer months.

## BELLARINE PENINSULA DISTRICT.

The Bellarine water supply system comes from the West and East Barwon Rivers, the headwaters of the main Barwon River high in the Otway Ranges near Forrest. A tunnel between the two, nearly half a mile in length, diverts water from the West into the East Barwon and then a small weir on the latter stream diverts the combined flow into the main channel of the system. This channel after some 37 miles empties into the Wurdee Boluc storage near Winchelsea which has a capacity of 10,000 acre feet.

A further 16 miles of channel then continues to the smaller Waurn Ponds storage, from which point the supply is carried on, by 19 miles of pipeline, to the Bellarine Basin, the end of the main line of supply.

Extensions from the channel system supply the inland towns of Birregurra and Winchelsea and the coastal towns of Anglesea and Torquay. Pipeline extensions from the Bellarine Basin supply Ocean Grove and Barwon Heads by a line to the south, and Queenscliff and Point Lonsdale by a line to the east. The towns of Drysdale and Portarlington to the north of Bellarine Basin are supplied, on account of their higher elevation, direct from the main Bellarine pipe line at a point near the basin.

By far the greatest consumer from the Bellarine system is the Geelong Waterworks Trust, supplying the City of Geelong, which taps the system's main pipeline some two miles beyond Waurn Ponds with two pipelines of its own. About sixty per cent. of Geelong's water supply requirements are at present being met from the Bellarine system.

OTWAY DISTRICT.

Diversions from the Arkins Creeks and First Creek kept the district storages at near full capacity until mid December. Over the summer and subsequent long dry autumn the storages were drawn down to a minimum level of 35 per cent. of full capacity by the middle of May. However, it was not necessary to impose restrictions during the year.

Pumping equipment which was installed and tested for mantal control in the pump house at the new Auxiliary Reservoir will be used to supplement supply to Warrnambool during prolonged periods of high demand.

The quantity of water supplied in bulk to the Warrnambool Trust for the year ended 1st November, 1952, was 272,531,000 gallons.

Wimmera-Mallee Towns.

Full supplies were delivered through the Wimmera-Mallee Domestic and Stock Water Supply System to the storages of 37 townships in the Wimmera-Mallee having pipe reticulation.

In addition bulk supplies of water were made available from the system to the City of Horsham and the towns of Charlton, Donald, Korong Vale, Murtoa, St. Arnaud, Stawell, Underbool, Warracknabeal, and Wedderburn, which are controlled by local waterworks trusts.

The construction of the No. 5 storage at Manangatang with a capacity of 6,500,000 gallons was completed and the Lalbert storage was remodelled and enlarged.

Robinvale Township.

The township is increasing rapidly and the reticulation system has been extended to the packing shed and to the new hospital site. In all, 28 new service connexions to properties were made during the year.

NEW SERVICES AND INSTALLATION OF WATER METERS IN THE MAIN URBAN DIVISION.

The table summarizes the position in regard to new services and the installation of meters in the following districts :—

District.						Number of New Services 1952-53.	Total Number of Services at 30th June, 1953.	Meters Installed during Year 1952-53.	Total Number of Meters.	Percentage of Services Metered.
Coliban	..	..	..	..	..	357	14,986	117	11,114	74
Mornington Peninsula	..	..	..	..	..	1,519	23,622	218	18,002	76
Bellarine Peninsula	..	..	..	..	..	183	3,603	81	2,883	80
Otway	..	..	..	..	..	63	2,475	115	2,386	96
Wonthaggi	..	..	..	..	..	23	1,630	2	85	5
Total	..	..	..	..	..	2,145	46,316	533	34,470	..

WATERWORKS TRUSTS AND LOCAL GOVERNING BODIES.

The Commission exercises a general supervision over 148 local authorities which supply water for domestic, industrial and agricultural purposes in country towns and rural areas throughout the State. These authorities comprise 136 Waterworks Trusts, 17 Local Governing Bodies and one Irrigation Trust.

Reticulated water supplies are in operation in 138 country cities, towns and townships.

During the past year, the Beaufort Waterworks Trust was constituted to take over the Beaufort town supply system from the Ripon Shire Council which previously managed this supply as a Local Governing Body, but no authorities were constituted to construct and manage new supplies.



A further reduction in the amount of Government loan money available for these local water authorities had to be faced in the year under review, the allocation being reduced to £510,000 whereas the actual rate of expenditure had reached £1,000,000 per annum prior to the first curtailment of Loan Funds in 1951.

It was necessary to restrict advances of Government Loan Funds to inescapable commitments in respect of works in progress, to cancel or suspend contracts already entered into but not commenced, and to postpone the construction of all approved new works requiring Government Loan Funds except minor reticulation services to new housing areas.

The effects of the loan shortage were partially mitigated by the passage in October, 1952, of amending legislation which empowers local water authorities to raise loan funds from private sources, the Government undertaking to subsidize all interest payments in excess of three per centum per annum. Many Waterworks Trusts were able to take advantage of the new provisions and private loans amounting to £159,500 were authorized up to the close of the financial year. This private borrowing enabled the commencement of many urgent works which would otherwise have been postponed indefinitely.

The total Government and private loan expenditure for the year was £669,500. Loan Funds amounting to £4,360,000 are, however, still needed to carry out all approved works to be constructed by these authorities. These approved works at 30th June, 1953, comprised the following:—

Completion of improvement works and new town supplies already commenced .. .. .	£ 503,000
Completion of new pumping station of First Mildura Irrigation Trust .. .. .	350,000
Approved improvement works of varying urgency .. .. .	2,587,000
Approved new supplies for 32 townships .. .. .	920,000
Total .. .. .	<u>4,360,000</u>

These figures do not cover the operations of the Geelong Waterworks and Sewerage Trust which finances its works by private borrowing. During the year under review this Trust borrowed £367,600 of which £312,600 was for water supply works. Important improvements completed or commenced included the replacement of 15 miles of the old Anakie pipeline by new 15-in. piping, a new 24-in. main from the Commission's Bellarine pipeline to the Highton Basin, construction of the outlet conduit from the Bostock Reservoir site comprising 6½ miles of pipeline, channel and tunnel, and commencement of the outlet tunnel at this reservoir site. The designs for the main Bostock Dam structures have been completed and the Trust is about to let a contract for construction.

The Bacchus Marsh Shire Council carried out a programme of urgent reticulation improvements, and constructed a pumping station, with rising main, to pump the supply from the Commission's low level channel following extensive damage by landslides to the high level channel from which the town storage is normally filled by gravitation.

The Elmore Waterworks Trust is installing a borehole pumping plant and a rising main to utilize its recently located supply from underground sources.

The First Mildura Irrigation Trust made good progress with the channel works associated with its new central pumping station project. Construction of the pumping station building is proceeding by contract and tenders have been invited for construction of the new 87-in. diameter reinforced concrete rising main.

The Mildura Urban Water Trust completed the installation of a new 18-in. rising main to enable recently increased pump capacity to be fully utilized.

The Moe Waterworks Trust commenced the construction of a new service basin to serve the Newborough area.

The Nhill Waterworks Trust is installing a second borehole and pumping unit to act as a standby in case of breakdown of the existing borehole unit, and to provide for increasing peak demands.

The new town water supply system at Noojee was brought into operation.

The Omeo Waterworks Trust installed a pumping plant on the Livingstone Creek to supersede the original gravitation supply by 11 miles of race-line which was proving impracticable to maintain.



## SEWERAGE AUTHORITIES.

New Sewerage Authorities were constituted at Croydon and Lilydale during the year, bringing the total number of such Authorities up to 59 of which 29 have works in complete or partial operation.

The serious shortage of Government Loan Funds, together with the limitation of private borrowing in accordance with the policy of the Loan Council, have again precluded any large-scale resumption of sewerage construction in Victoria. No new town sewerage systems have been commenced, but better progress is now being made with the extension and improvement of existing systems.

Loan Funds borrowed from private sources by Sewerage Authorities for improvements to existing systems amounted to £211,392 during the year. In addition the Geelong Waterworks and Sewerage Trust borrowed privately an amount of £55,000 for sewer extensions and Government Loan Funds to the extent of £80,000 were made available for continuation of the construction of the new sewerage system at Moe and for minor subsidized works.

The total expenditure of £346,392 for the year is very small in comparison with the approved sewerage works awaiting construction by local sewerage authorities, which will require expenditure amounting to approximately £7,600,000 as follows:—

Extensions to operating systems .. .. .	£ 1,050,000
Completion of three partly-constructed systems .. .. .	775,000
Construction of fifteen new schemes planned in detail .. .. .	3,775,000
Construction of twelve new schemes, detailed plans not yet completed	2,000,000
	<hr/>
	7,600,000

In addition, preliminary proposals for the sewerage of a further 21 towns have been submitted for examination. It is clear that until a substantial increase in loan expenditure is possible, the demand for extension of sewerage facilities in country towns will remain largely unsatisfied.

At Dandenong the Sewerage Authority has undertaken to accept and dispose of trade wastes from a large vegetable cannery, and has completed the design of a special treatment plant for this purpose.

The construction of the new Moe sewerage system continued at a limited rate, and it is expected that the works will be brought into partial operation in the coming year.

The Traralgon Sewerage Authority has now resumed construction of its sewerage system which was suspended in 1942 before the works became operative.

## RIVERS AND STREAMS DIVISION.

## FLOODS.

The year commenced with extensive flooding in the Central, nearer Eastern, Otway and North-eastern districts on 12th–13th July. The principal areas affected were along Dandenong Creek, the Goulburn, Ovens, and Loddon. Fortunately the areas of Gippsland damaged by the June flood mostly escaped this later rain. Floods on the middle Murray from the heavy rains of June and July were at the highest level for many years. Prolonged flooding occurred on the flats adjoining the Macalister and Thomson Rivers.

During August the rainfall did not exceed the average except in the Western and East Wimmera Districts, the principal flooding being on the Murray where the peak was moving slowly downstream. September rainfall was light except in the Western District and Gippsland as far as Yallourn, where, however, the falls produced only local flooding.

Good rains fell over the whole State in October, some localities recording up to three times the average. Rivers in Gippsland, Central and North-Eastern Districts reached flood level, but no serious damage was reported. This rain was followed by heavy rain in the first two weeks of December. Gippsland and Central rivers again rose; the Yarra reached a level only exceeded by the flood of 1934; the Snowy, Tambo, and Buchan caused considerable damage, the Avon and Thomson flooded, and other places in Gippsland were seriously affected. Roads were blocked, bridges washed away and much damage caused to property.

The Barwon, which had been at high level for most of the winter and spring, rose again. Thus closed 1952, a year of extraordinary weather, with a heat wave in January, very dry conditions early in the year, followed by the wettest winter on record. (Tanybryn, for example, recorded 35 inches for June.) September was the windiest on record, and one of the coldest December days ever known was recorded on the 11th.

The year 1953 opened unusually dry except in Gippsland, but by March, that province was also noticing the dry conditions. Taking the whole State, the month of March ranks with March of 1951 and 1923 as the driest on record. These conditions were broken by rain in the Western District in April and in Gippsland in May where there was a sharp rise in the rivers, but no flooding of consequence. General rain in June was of benefit to the whole State but no floods resulted.

One unusual but important form of flooding is that which occurred around various lakes in the Western District, Corangamite, Gnarpurt, Bookarr, Colac, Murdeduke, Modewarre, and others. Most of these lakes have no defined natural outlet, and usually the flow of water into them is balanced by evaporation. They are, in fact, small inland seas. Due to the evaporative process, the water in these lakes has over the centuries become very salty, except Lake Colac, which at times has overflowed into the long depression known as Lough Calvert, in which there were several small salt lakes.

During 1951, when rainfall in the district was over 30 per cent. above average, inflow greatly exceeded evaporation, so that the level of water in the lakes rose; Lake Colac actually overflowed. The following summer did not provide much evaporation, and the winter of 1952 was wetter even than 1951, the total for the year being some 50 per cent. above average. The lakes rose so high that they flooded many thousands of acres of land around their margin. Lake Colac, in addition, overflowed for some months, filling Lough Calvert from end to end, submerging thousands of acres of good grazing land (including much of the Closer Settlement Area of Eurack) and blocking many roads. As the rain continued, Lough Calvert in turn overflowed, the water running down into Lake Murdeduke to aggravate the already serious flooding there. Salt Lake, in the Sanctuary area east of Lough Calvert, overflowed into the Barwon River via Birregurra Creek. Corangamite, Gnarpurt, Bookarr, Modewarre, Murdeduke, and other smaller lakes, lacking any outlet, expanded greatly, flooding many thousands of acres of valuable land and blocking roads. The productivity of the District fell off seriously in consequence.

Investigations made indicated that the Lough Calvert and Sanctuary floodings could be relieved, and as a result of works carried out much of the water had been drained off by the end of the year. (See under River Improvement below.) No feasible solution, however, was found for early drainage of the other lakes at economic cost, and in most cases it appears that the floodwater there will have to be left to evaporate away.

#### RIVER IMPROVEMENT.

The policy of developing river improvement and drainage through local Trusts was continued. Although only one Trust was constituted during the year, measures for the constitution of two others—Tambo and Ovens—were well advanced. By the end of the year there were nine Trusts in operation—seven river improvement Trusts and two drainage Trusts. The new Trust is the Lough Calvert Drainage Trust, which was brought into being to control the works for releasing the floodwaters which inundated about 12,000 acres of good land near Colac.

General public interest in river improvement in Victoria is very evident, and has been intensified by the 1952 floods, though on some rivers the problems associated with applications for constitution of Trusts have not yet been overcome. The scope or form of applications are still being discussed in districts along the Mitchell, Glenelg, Mitta, Fitzroy, and Powlett Rivers. An application for constitution of a district along the Thomson-Macalister Rivers is well advanced, though some local differences still have to be resolved. The opinions of bodies interested in the Barwon River now appears to favour the creation of one large district rather than several smaller local ones.

The activity of the established Trusts was restricted because of the limited amount of Loan Funds which were available. However, the Trusts have generally shown good results with what money was available, and one Trust decided to increase the district rate so that additional work could be done from revenue.

During the year, an amendment to the Water Act empowered River Improvement Trusts to borrow money under certain conditions upon the security of the district rate. Two Trusts—Snowy and Lough Calvert—are committed to this course in consideration of receiving special grants of governmental moneys.

The Lough Calvert Drainage Trust was formed under unusual circumstances. Following representations by the Colac and Winchelsea Shire Councils as to the serious effects of the flooding in Lough Calvert and adjoining areas, investigations were made which showed that the drainage of Lough Calvert to the Barwon via Birregurra Creek was feasible. The work was planned in two stages; the first to remove the surplus water from privately owned lands to enable production to be resumed, while completion of the second or final stage would allow for extension of the drainage system along the length of Lough Calvert and to a regulated outlet from Lake Colac. Thus future operation of the scheme will ensure that uncontrolled flooding will not again occur in the Lough Calvert or Sanctuary areas, or to the Barwon River from these areas.

The Government, in February, 1953, made available £20,000 to the Colac Shire Council to commence the work, on condition that a Drainage Trust was constituted and that it should borrow an equivalent amount, the Government paying £1 for £1 until the whole scheme (estimated at £55,000) was completed. The Commission, which was requested by the Colac Shire Council to carry out the work, sent excavating machinery and operators to the site, work commencing on the 18th February. By 23rd April, nearly 90,000 cubic yards of earth had been removed, and the work was far enough advanced for the outflow to commence. By the time the Trust was constituted near the end of May, not only was the construction of the first stage of the works practically complete, but also a large volume of floodwater had already been drained away.

It may be mentioned, incidentally, that the construction of the first stage of the works was marked by the degree of co-operation and goodwill shown not only by the Councils and landholders directly concerned but also by others who would not receive benefit in the first stage of construction.

At the commencement of the year the Trusts and other authorities in East Gippsland were faced with serious problems brought about by the floods of June, 1952. Road communication was hampered by the destruction of bridges, and some river improvement works were severely damaged. A serious danger that the Avon River would sever the Princes Highway at Stratford led to the Country Roads Board undertaking extensive protective works after consulting this Commission. Further general damage was caused by a flood in December before the earlier destruction could be remedied, and after this flood the Country Roads Board and Orbost Shire Council, after consulting with this Commission, commenced construction of an embankment at Gilbert's Gulch in order to preserve access to Marlo. Works which had been constructed to combat the threat of an extensive diversion of the Thomson River were destroyed and the river changed its course.

Various River Improvement works proposed for the River Murray were considered by the Interstate Departmental Committee which was set up in 1949 to advise and report on these matters. The Drainage Consultative Committee, set up to advise on projects involving land drainage, made recommendations in regard to whether proposals could best be carried out under the Drainage Areas Act or the River Improvement Act.

#### RIVER AND STREAMS FUND.

This fund is formed from the licence fees paid for the use of river frontage reserves. During the year its revenue amounted to £12,304.

Approval was given for 83 grants to 28 authorities for works on 41 different streams, the total of the amounts so granted being £23,616.

The demand on the Fund has been particularly heavy because of flood conditions, and by the end of 1952 the surplus which had accumulated in the Fund during the War years had practically all been allocated. Grants therefore have now to be restricted to those cases where erosion or other drainage is serious and where urgent attention is necessary to prevent further loss. The amount available for allocation on 30th June, 1953, was only £8,286 whereas the applications on hand were for amounts totalling about £40,000. It has become obvious that this very useful little Fund is becoming too small to cope with the growing demand on it.

## SLUDGE ABATEMENT BOARD.

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

The control exercised by the Board has greatly reduced the damage formerly done by alluvial mining, and has enabled the recovery of large quantities of gold and minerals without serious detriment to streams or marginal lands. Mr. H. G. Strom, the Commission's Divisional Engineer for River and Streams, is a member of the Board.

## DRAINAGE AND FLOOD PROTECTION WORKS.

*Koo-wee-rup and Cardinia Districts.*

Following heavy rainfall in July, 1952, totalling about  $6\frac{1}{2}$  inches in the Gembrook Ranges over a period of 36 hours, the flood discharge in the Bunyip River was estimated at 10,000 cusecs, and a considerable area of rural land in the Koo-wee-rup District on the southern side of the Canal was flooded for a brief period.

In the Cardinia District, the flood protection works satisfactorily withstood their first real test since completion in 1942.

During the year the large bridges over the outfalls at Bayles in the Koo-wee-rup District were completed.

Resumption of operations on the Yallock Outfall Works during the coming year will now be dependent on the provision of finance and the construction, by the Country Roads Board, of the southern approach of the Koo-wee-rup-Longwarry-road to the Bayles Bridges.

In the Koo-wee-rup District, mechanical excavators reconditioned and regraded sections of the large North-west Main Catch and No. 4 Yallock Drains.

In the Cardinia District the important McGregors and Tooradin Inlet Drains were reconditioned and regraded.

Privately-owned suction plants operating under arrangement with the Commission have removed an additional 37,000 tons of coarse, clean sand from the Koo-wee-rup Main Canal and 3,400 tons from the Cardinia Drain. The total output of sand from the Main Canal has amounted to approximately 811,000 tons over the period since 1925.

*Carrum District.*

In July, 1952, a very heavy flood discharge estimated at 16,000 cusecs, occurred in the Dandenong Creek and caused severe flooding in the low-lying parts of the Dandenong Township and the Bangholme and Keysborough Districts. A breach occurred in the Main Carrum Outfall near the Eumemmerring Junction and escaping flood waters ponded against the coastal ridge to approximately floor level in about ten low-lying houses in the Chelsea area. Repairs to the breach were expeditiously effected.

The work of installing pumping units at the Mordialloc and Carrum ends of the Swamp Drain is practically completed.

During the year, a mechanical excavator remodelled the large Mordialloc Drain for some  $2\frac{3}{4}$  miles and commenced the enlargement and regrading of the Swamp Drain.

*Murray Levees.*

During the year one application for permission to erect a levee along the River Murray for the protection of lands from flooding was investigated and dealt with by the Interstate Committee appointed for this purpose.

ENGINEERING RESEARCH BRANCH.

During the year activities have increased in the volume of work handled in connexion with water purification and analysis.

A prominent feature in this regard has been certain field and laboratory work undertaken to afford assistance in the compilation of a report on the pollution of the Latrobe River. To this end several series of samples were obtained on a number of occasions throughout the summer season, representing the river water at various points from Willow Grove downstream to Rosedale, and also the main tributaries and influent industrial or land drains.

In the Soil Mechanics Section, work was maintained at full capacity and the testing procedure was improved by the introduction of certain new methods to which reference is made later in the report.

The work carried out is summarized under the following sections :—

- 1. Routine Laboratory Tests.
- 2. (a) Out-Door Testing of Materials and Manufactured Articles.  
(b) Inspection of Materials supplied by Contractors.
- 3. Water Purification and Analysis.
- 4. Soil Mechanics.

1. ROUTINE LABORATORY TESTS.

Portland Cement.								Tons.
Victorian production ..	..	..	..	..	..	..	..	4,207
Imported ..	..	..	..	..	..	..	..	260
Total	..	..	..	..	..	..	..	4,467

Concrete Specimens ..	..	..	..	..	..	..	..	Number tested .. 757
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In addition to the above, 57 samples of cement were tested representing a wide range of production, some being from New South Wales' manufacturers, and others from overseas included one sample from Haifa in Israeli.

2. (a) OUT-DOOR TESTING OF MATERIALS.

Item Tested.								Quantity in Lineal Feet.
Asbestos cement pipes ..	..	..	..	..	..	..	..	73,773
Cement concrete pipes ..	..	..	..	..	..	..	..	36,312
Steel cement-lined pipes ..	..	..	..	..	..	..	..	17,733
Total	..	..	..	..	..	..	..	127,818

The pipes were tested against various pressure heads according to the design, and ranged in diameter up to 60-in. in the reinforced concrete class and 50-in. in steel pipes.

A variety of other items were tested including 500 sluice valves, 500 water meters, and large size pipe fittings such as bends and tees.

(b) INSPECTION OF MATERIALS SUPPLIED BY CONTRACTORS.

The items in this category are such that their quality as regards the material, or the workmanship in the fabrication, can be ascertained by examination by competent inspectors.

Included are 8,769 cast-iron pieces or assemblies such as Gibault Joints, tapping saddles, bends, reducers, distance pieces, fireplugs and covers, and meter covers.

### 3. WATER PURIFICATION AND ANALYSIS.

There has been a steady increase in the number of water samples received for analysis.

During the year they amounted to :—

Samples for general analysis	..	..	..	779
Samples for microscopical examination	..	..	..	129

A large proportion of the samples received were routine in character, conforming with the systematic scheme of sampling introduced for the evaluation of the quality of water in urban supplies, reservoirs, and storages, and rivers and streams throughout the State.

The plan for obtaining regularly samples of water for analysis from all major sources of supply throughout the State, which was initiated in 1949, is now being implemented almost to its maximum extent.

In addition, a number of water samples were received for examination including potential urban water supplies, water from bores or wells for prospective farm supplies, and samples of land drainage and industrial effluents.

Inquiries were received from time to time from landholders, industrial undertakings, or other interested parties in regard to the quality of water obtainable in various parts of the State. In many instances appropriate information has been supplied from analytical records already available whilst in some cases samples have been obtained specifically to supply the data required.

In a number of instances where it was found that the quality of the water supply could be improved by suitable treatment, recommendations to initiate treatment on appropriate lines were made.

The reporting of results of analysis was changed on 1st July, 1952, from "parts per 100,000" to "parts per million" as the latter terminology is now becoming almost universal in English speaking communities.

### 4. SOIL MECHANICS.

During the year approximately 400 soil samples were received from various localities for examination.

In order to facilitate the control of moisture and other associated features during the rapid placing of large quantities of earth-fill at Big Eildon Project, two new tests were introduced. In the one case a fast method for the determination of moisture content of cohesive soils was satisfactorily implemented, and in the other an entirely new test for the determination of the Proctor optimum moisture content was evolved.

Following on the First Australia-New Zealand Conference on Soil Mechanics and Foundation Engineering, the results of a series of tests demonstrating a fundamental definition of cohesion were reported in the form of a discussion by Mr. J. MacN. Turnbull on one of the papers.

## VALUATIONS BRANCH.

### VALUATIONS FOR LAND COMPENSATION.

#### *General.*

In connexion with the resumption of land for channels, reservoirs and other works of the Commission throughout the whole State, 78 cases, with claims amounting to £538,098, have been completed by agreement to pay £425,509.

### VALUATIONS FOR RATING.

During the year, District Rating Valuations were completed in the Robinvale, Fish Point, and Katandra Irrigation and Water Supply Districts and in the Karkarooc Waterworks District. In each case, unimproved capital value has been assessed in addition to net annual value.

The previous District Rating Valuation in each instance was carried out during the period of land sales control so that, in the 1952-53 valuations, substantial increases have been made consequent on the rise in the market value of land since the abolition of controls.

#### SUPPLEMENTARY VALUATIONS.

Nine hundred and sixty-six Supplementary Valuations were carried out during the year, 633 in Irrigation and Water Supply Districts, 294 in Waterworks Districts, and 51 in the Koo-wee-rup Flood Protection District.

#### DISTRICT VALUATION APPEALS.

No appeals against Rating Valuations were lodged with a Court of petty sessions during the year.

#### LAND CLASSIFICATION SURVEY.

The survey to determine the classification of land in irrigation districts to which the completion of Big Eildon will make additional water available, was continued during the year with the inspection of 412,000 acres. This, with the 334,000 acres inspected during 1951-52, brings the total to 746,000 acres.

#### STAFF.

In November, 1952, two members of the Branch successfully completed the final examinations of, and have been admitted as members to the Commonwealth Institute of Valuers. Two others were successful in passing the first-year examination of that Institute. The Commission's policy of training Cadet Valuers thus continues to show satisfying results.

#### FIRST MILDURA IRRIGATION TRUST.

The First Mildura Irrigation Trust reports that irrigation commenced on the 20th August, 1952, and that the pumpings were not affected by weather conditions except during the second irrigation which was interrupted by rain for two weeks.

To meet demands of citrus growers, a special watering was commenced on the 11th August before the first irrigation, but only 240 acres were watered. Four general and five special irrigations, including a short frost pumping, were supplied during the season.

The Trust supplied 58,790 acres with water for ordinary irrigations, involving the pumping of 37,000 acre feet, and 9,520 acres were supplied with water for special irrigations, involving the pumping of 9,000 acre feet.

The Trust reports that the firewood position improved considerably during the year particularly in regard to quantity and also quality. Costs of fuel, however, were high.

The erection of the new electrically operated central pumping station, which will supersede the existing steam and diesel stations, has commenced.

#### TECHNICAL LIBRARY.

During the year, 575 publications were added to the Commission's Technical Library, bringing the total number of accessions to 6,385.

In addition, the number of periodicals being received regularly increased to 300.

Full advantage was taken of the facilities at the Library by members of the Commission's staff, and also by other Authorities, members of the public, and students desiring information regarding water conservation.

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**PART III.—RATING AND FINANCE.****VALUATIONS, RATES, IRRIGATION CHARGES AND FLOOD PROTECTION CHARGES.**

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

The compulsory irrigation charges remained the same as those made for the previous year in districts where water for irrigation is obtained by gravitation from the various storage reservoirs throughout the State. No alteration was made in the unit charge in the four districts which are supplied with water by pumping from either the River Murray or storages. The rates made and levied by the Commission in Irrigation and Water Supply Districts during the year were not altered from those made for the previous year.

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

As compared with the previous year the rates made and levied in eleven urban districts were increased. In 37 urban districts the minimum amount of rate for land on which there is a building was increased.

The rate and charge in the four Flood Protection Districts remained the same as those of the previous year. No alteration was made in the drainage rates in Irrigation Districts where drainage facilities have been provided. The minimum rate in the Carrum Drainage District was increased.



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

Districts Supplied with Water for Domestic and Ordinary Use and for Watering Cattle or Other Stock.	Area of District in Acres.	Area Classified as Irrigable in Acres.	Water Rights Apportioned (including Extra Rights) in Acre Feet.	Unimproved Capital Value.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1953 on Net Annual Value except where indicated				Compulsory Irrigation Charge per Acre foot of Water Right, Season 1952-53.	Number of Assessments.	Estimated Number of Persons Dwelling in District.
						General Rate.		Drainage Rate.				
						—	—	—	—			

IRRIGATION AND WATER SUPPLY DISTRICTS.

	Valuation by Commission.				Divisions.							
	£	£	Commission.				Divisions.					
			1st.	2nd.	3rd.	1st.	2nd.	3rd.	4th.			
Supplied from Goulburn System.												
1. BOORT .. .. .	80,235	56,560	11,340	500,468	29,601	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	293
2. CALVIL .. .. .	61,136	32,527	6,505	291,376	17,762	1 0	0 6	..	..	..	..	540
3. DEAKIN .. .. .	160,826	21,202	5,698	418,636	51,840	1 8	0 10	0 5	..	..	..	439
4. DINGEE .. .. .	8,826	4,447	4,447	53,516	2,892	1 0	..	..	..	..	..	1,435
5. KATANDRA .. ..	13,880	11,198	7,333	119,376	9,833	1 0	..	..	..	..	..	194
6. NORTH SHEPPARTON ..	124,439	61,441	13,198	949,441	57,013	1 0	0 6	0 3	..	..	..	478
7. ROCHESTER .. ..	182,006	56,935	57,466	1,530,152	105,876	1 0	0 6	0 3	..	..	..	1,072
8. RODNEY .. .. .	273,766	190,266	60,900	2,262,461	179,385	1 0	0 6	..	..	..	..	3,039
9. SHEPPARTON .. ..	24,163	21,062	21,064	501,473	52,418	1 0	0 6	..	..	..	..	3,885
10. SOUTH SHEPPARTON ..	33,726	17,917	4,404	258,111	16,025	1 0	0 6	..	..	..	..	2,693
11. TONGALA-STANHOPE ..	76,113	47,617	48,043	410,857	68,650	1 0	..	..	..	..	..	415
12. TRAGOWEL PLAINS ..	218,499	148,870	31,214	891,715	58,634	1 0	0 6	..	..	..	..	3,250
Totals .. .. .	1,257,715	670,102	271,612	8,186,582	630,965	..	..	..	..	..	..	1,083
Supplied from Yarruwonga Weir.												
13. MURRAY VALLEY .. ..	266,762	173,353	83,998	1,844,851	141,863	1 0	..	..	..	..	..	3,828
Supplied from Torrumbarry System.												
14. COHUNA .. .. .	85,445	44,687	49,312	1,028,584	78,710	1 0	0 6	..	..	..	..	1,701
15. FISH POINT .. ..	6,327	3,756	1,845	58,502	3,743	1 0	..	..	..	..	..	65
16. KERANG .. .. .	88,574	55,436	21,407	450,917	32,610	1 0	0 6	0 3	..	..	..	665
17. KOONDROOK .. ..	88,181	24,572	24,622	689,509	53,570	1 0	0 6	0 3	..	..	..	1,032
18. MYSTIC PARK .. ..	1,251	7,805	2,677	46,967	4,844	1 0	..	..	..	..	..	94
19. SWAN HILL .. ..	37,173	22,255	25,873	347,377	60,767	1 0	..	..	..	..	..	127
20. THIRD LAKE .. ..	11,483	3,771	2,153	27,751	2,479	1 0	0 6	..	..	..	..	2,290
Totals .. .. .	336,501	162,282	128,249	2,649,311	236,778	..	..	..	..	..	..	76
Totals .. .. .												
Totals .. .. .												

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

Districts Supplied with Water for Domestic and Ordinary Use and for Watering Cattle or Other Stock.	Area of District in Acres.	Area Classified as Irrigable in Acres.	Water Rights Apportioned (including Extra Rights) in Acre Feet.	Unimproved Capital Value.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1953. On Net Annual Value except where indicated.		Compulsory Irrigation Charge per Acre foot of Water Right, Season 1952-53.	Number of Assessments.	Estimated Number of Persons Dwelling in District.	
						General Rate.					Drainage Rate.
IRRIGATION AND WATER SUPPLY DISTRICTS.											
				Valuation by Commission.	Valuation by Commission.	Divisions.					
						1st	2nd.	3rd.	1st.		2nd.
<i>Supplied from Southern State Works.</i>											
21. BACCHUS MARSH ..	6,754	3,310	3,311	252,038	£ 17,148	s. d. 1 0	s. d. 0 6	s. d. ..	s. d. ..	267 706	
22. MAFFRA-SALE ..	72,879	25,234	23,322	1,031,076	87,879	1 0	0 6	1 6	0 6	534 2,400	
23. WERRIBEE ..	9,702	8,146	8,147	310,295	35,058	1 0	0 6	0 6	0 4	279 1,780	
Totals ..	89,335	36,690	34,780	1,593,409	140,085	..	..	..	..	1,080 4,886	
<i>Supplied direct from River Murray.</i>											
24. NYAH ..	3,842	2,620	7,181	52,252	13,576	0 6	..	1 6	1 1½	248 950	
25. RED CLIFFS-MERBEIN ..	22,833	18,925	57,751	985,988	220,433	0 6	..	1 6	1 1½	1,421 5,520	
26. ROBINVALE ..	4,994	3,765	..	116,519	..	0 2	..	..	..	77 818	
Totals ..	31,669	25,310	64,932	1,154,759	234,009	..	..	..	..	1,746 7,288	
<i>Supplied on a Sale of Water Basis.</i>											
27. CAMPASPE ..	19,736	..	..	153,662	9,005	2 0	1 0	..	..	146 157	
28. TRESKO ..	4,700	2,000	..	26,059	6,727	2 6	1 3	..	..	297 322	
Totals ..	24,436	2,000	..	179,721	15,732	..	..	..	..	443 479	
Totals (Irrigation) ..	2,006,867	1,069,737	583,571	15,609,281	1,419,432	..	..	..	..	14,525 42,960	

VALUATIONS, RATES, AND FLOOD PROTECTION CHARGES.

Districts supplied with Water for Domestic and Ordinary use and for Watering Cattle or other Stock.	Un-improved Capital Value.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1953.			Minimum Amount of Rate per 640 Acres on Lands in the First Division.	Number of Assessments.	Estimated Number of Persons Dwelling in District.
WATERWORKS DISTRICT.								
Supplied from Wimmera-Mallee System.	Valuation by Commission	Valuation by Commission.	Divisions.			£ s. d.		
	£	£	1st.	2nd.	3rd.			
			s. d.	s. d.	s. d.			
29. BIRCHIP .. .. .	701,378	44,554	2 6	1 3	0 7½	13 6 8	485	860
30. HINDMARSH .. .. .	139,980	8,719	2 6	..	0 7½	13 6 8	51	246
31. KARKAROOC .. .. .	680,881	130,361	3 0	1 6	0 9	13 6 8	1,319	4,500
32. LONG LAKE .. .. .	640,678	76,827	3 4	1 8	0 10	13 6 8	820	2,100
33. OUYEN .. .. .	337,558	45,410	3 4	1 8	0 10	13 6 8	890	2,000
34. SEA LAKE .. .. .	367,544	69,024	3 4	..	0 10	13 6 8	720	1,799
35. TYNTYNDER .. .. .	305,724	39,701	3 4	1 8	0 10	13 6 8	820	1,900
36. TYRRELL .. .. .	256,577	42,214	3 4	1 8	0 10	13 6 8	848	2,400
37. TYRRELL WEST .. .. .	162,521	24,867	3 4	1 8	0 10	13 6 8	558	1,000
38. UPPER WESTERN WIMMERA .. .. .	1,523,507	90,007	1 8	..	0 5	13 6 8	514	1,618
39. UPPER WIMMERA UNITED .. .. .	912,041	115,916	1 8	..	0 5	13 6 8	843	2,350
40. WESTERN WIMMERA .. .. .	5,063,545	286,419	1 6	0 9	0 4½	..	2,083	8,546
41. WIMMERA UNITED .. .. .	7,151,742	354,337	1 1	0 6½	0 3¼	..	2,217	7,200
42. WYCHEPROOF .. .. .	1,292,789	87,081	2 6	1 3	0 7½	13 6 8	1,060	2,480
43. WYCHITTELLA .. .. .	953,369	61,766	2 1	1 0½	0 6¼	13 6 8	486	520
Totals .. .. .	20,489,834	1,479,203	..	..	..	..	13,714	39,590
Supplied direct from River Murray.								
44. MILLEWA .. .. .	115,925	29,715	3 4	..	0 10	11 10 0	210	813
45. TYNTYNDER NORTH .. .. .	120,620	16,747	3 4	..	0 10	11 10 0	397	400
Totals .. .. .	236,545	46,462	..	..	..	..	607	1,213
Supplied by Bores.								
46. WALPEUP WEST .. .. .	983,016	57,870	1 0	0 6	..	6 13 4 1st Div., and 3 6 8 2nd Div.	1,091	1,750
Supplied from Coliban System.								
47. AXE CREEK .. .. .	17,869	1,929	2 0	..	..	..	62	250
48. HARCOURT .. .. .	62,469	9,370	1 6	..	..	..	211	600
Totals .. .. .	80,338	11,299	..	..	..	..	273	850
Miscellaneous.								
49. EAST LODDON .. .. .	307,033	19,727	1 0	0 6	0 3	..	265	182
50. KERANG NORTH-WEST LAKES .. .. .	89,532	8,874	0 8	..	..	..	201	175
51. LODDON .. .. .	505,649	29,690	1 4	0 8	0 4	..	308	222
52. NORMANVILLE .. .. .	833,828	48,891	2 0	1 0	0 6	13 6 8	376	410
53. WERRIBEE .. .. .	73,885	5,893	2 0	..	..	..	65	121
54. WEST LODDON .. .. .	695,247	40,316	1 0	0 6	0 3	..	320	368
Totals .. .. .	2,505,174	153,391	..	..	..	..	1,535	1,478
Totals (Waterworks)	24,294,907	1,748,225	..	..	..	..	17,220	44,881

VALUATIONS, RATES, AND FLOOD PROTECTION CHARGES—continued.

Districts Supplied with Water for Domestic and Ordinary Use from Pipe Reticulations.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1953.	Minimum Amount of Rate for Lands on which there is a Building.	Minimum Amount of Rate for Lands on which there is no Building.	Water Charge per 1,000 Gallons.	Number of Assessments.	Estimated Number of Persons Dwelling in District.
URBAN DISTRICTS AND DIVISIONS.							
<i>Supplied from Bellarine Peninsula System.</i>							
	£	s. d.	s. d.	s. d.	s. d.	s. d.	
55. ANGLESEA .. .. .	7,454	2 4	50 0	10 0	1 3	1 3	306 350
56. BARWON HEADS AND OCEAN GROVE ..	26,703	2 0	40 0	10 0	1 3	1 3	1,117 1,850
57. BIRREGURRA .. .. .	4,155	2 4	50 0	10 0	1 3	1 3	156 460
58. DRYSDALE .. .. .	4,520	2 4	50 0	10 0	1 3	1 3	173 520
59. PORTARLINGTON .. .. .	7,004	2 4	50 0	10 0	1 3	1 3	347 800
60. QUEENSCLIFF AND POINT LONSDALE ..	42,440	2 4	50 0	10 0	1 3	1 3	952 3,350
61. TORQUAY .. .. .	17,552	2 4	50 0	10 0	1 3	1 3	633 750
Totals .. .. .	109,828	..	..	..	..	..	3,684 8,080
<i>Supplied from Mornington Peninsula System.</i>							
62. BERWICK .. .. .	12,736	1 8	40 0	10 0	1 3	1 3	337 1,047
63. BITTERN .. .. .	5,241	2 2	50 0	10 0	1 3	1 3	70 110
64. BUNYIP .. .. .	5,327	1 8	40 0	10 0	1 3	1 3	197 493
65. CHELSEA-FRANKSTON .. .. .	415,941	1 4	30 0	10 0	1 3	1 3	8,904 24,805
66. CRANBOURNE .. .. .	6,013	1 4	30 0	10 0	1 3	1 3	187 417
67. CRIB POINT .. .. .	733	2 2	50 0	10 0	1 3	1 3	335 742
68. DANDENONG-SPRINGVALE .. .. .	581,470	1 3	30 0	10 0	1 3	1 3	7,126 13,463
69. DROMANA-PORTSEA .. .. .	158,128	2 2	50 0	10 0	1 3	1 3	4,259 6,894
70. GARFIELD .. .. .	4,329	1 8	40 0	10 0	1 3	1 3	131 335
71. HASTINGS .. .. .	5,713	2 2	50 0	10 0	1 3	1 3	236 636
72. LONGWARRY .. .. .	5,315	1 8	40 0	10 0	1 3	1 3	154 461
73. MORNINGTON .. .. .	102,813	1 4	30 0	10 0	1 3	1 3	1,800 4,104
74. PAKENHAM .. .. .	12,686	1 8	40 0	10 0	1 3	1 3	288 901
75. SOMERVILLE .. .. .	4,055	2 2	50 0	10 0	1 3	1 3	109 356
76. SOUTH FRANKSTON .. .. .	48,509	1 6	40 0	10 0	1 3	1 3	643 2,170
Totals .. .. .	1,369,009	..	..	..	..	..	24,866 56,934
<i>Supplied from Otway System.</i>							
77. ALLANSFORD .. .. .	2,964	2 6	50 0	10 0	1 3	1 3	92 310
78. CAMPERDOWN .. .. .	49,237	2 6	50 0	10 0	1 3	1 3	1,061 3,050
79. COBDEN .. .. .	12,322	2 6	50 0	10 0	1 3	1 3	358 920
80. TERANG .. .. .	36,320	2 6	50 0	10 0	1 3	1 3	763 2,150
Totals .. .. .	100,852	..	..	..	..	..	2,274 6,430
<i>Supplied from Wimmera-Mallee System.</i>							
81. ANTWERP .. .. .	195	3 6	80 0	10 0	1 4	1 4	23 48
82. BERRIWILLOCK .. .. .	1,236	3 6	80 0	10 0	1 3	1 3	59 200
83. BEULAH .. .. .	3,651	2 6	50 0	10 0	1 3	1 3	198 373
84. BIRCHIP .. .. .	8,194	3 6	80 0	10 0	1 3	1 3	298 880
85. BRIM .. .. .	1,449	3 6	80 0	10 0	1 3	1 3	78 220
86. CHILLINGOLLAH .. .. .	240	3 6	80 0	10 0	1 4	1 4	31 40
87. CHINKAPOOK .. .. .	567	3 6	80 0	10 0	1 4	1 4	45 100
88. CULGOA .. .. .	1,028	3 6	80 0	10 0	1 3	1 3	40 175
89. DIMBOOLA .. .. .	21,268	1 4	30 0	10 0	1 3	1 3	685 1,844
90. DOON .. .. .	274	1 4	30 0	10 0	1 3	1 3	6 24
91. HOPETOUN .. .. .	8,261	2 0	40 0	10 0	1 3	1 3	291 864
92. JEPARIT .. .. .	9,500	1 5	30 0	10 0	1 3	1 3	296 898
93. JUNG JUNG .. .. .	1,235	3 6	80 0	10 0	1 3	1 3	45 172
Carried forward .. .. .	57,098	..	..	..	..	..	2,095 5,838

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

Districts Supplied with Water for Domestic and Ordinary Use from Pipe Reticulations.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1953.	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.
<b>URBAN DISTRICTS AND DIVISIONS—<i>continued.</i></b>							
<i>Supplied from Wimmera-Mallee System—continued.</i>	Municipal Valuation.				Rate Allowance.	Excess.	
Brought forward .. .. .	57,098	s. d.	s. d.	s. d.	s. d.	s. d.	2,095 5,838
94. LALBERT .. .. .	1,260	3 6	80 0	10 0	1 3	1 3	53 130
95. LASCELLES .. .. .	862	3 6	80 0	10 0	1 3	1 3	71 153
96. MANANGATANG .. .. .	2,952	3 6	80 0	10 0	1 4	1 4	122 400
97. MARNOO .. .. .	1,483	2 4	50 0	10 0	1 3	1 3	43 300
98. MINYIP .. .. .	9,973	3 0	60 0	10 0	1 3	1 3	253 750
99. NANDALY .. .. .	327	3 6	80 0	10 0	1 4	1 4	35 100
100. NATIMUK .. .. .	3,778	1 6	30 0	10 0	1 3	1 3	189 562
101. NULLAWIL .. .. .	659	3 6	80 0	10 0	1 4	1 4	36 100
102. OUYEN .. .. .	13,662	3 6	80 0	10 0	1 4	1 4	403 1,000
103. PATCHEWOLLOCK .. .. .	989	3 6	80 0	10 0	1 4	1 4	76 189
104. PIMPINIO .. .. .	403	0 4	.. ..	.. ..	.. ..	.. ..	29 68
105. QUAMBATOOK .. .. .	4,892	2 2	50 0	10 0	1 3	1 3	142 480
106. RAINBOW .. .. .	9,098	1 4	30 0	10 0	1 3	1 3	305 755
107. RUPANYUP .. .. .	8,599	3 0	60 0	10 0	1 3	1 3	193 730
108. SEA LAKE .. .. .	7,059	2 0	40 0	10 0	1 3	1 3	256 800
109. SPEED .. .. .	529	3 6	80 0	10 0	1 4	1 4	21 82
110. TEMPY .. .. .	284	3 0	60 0	10 0	1 4	1 4	32 106
111. ULTIMA .. .. .	2,246	3 6	120 0	10 0	1 3	1 3	151 260
112. WAITCHIE .. .. .	155	3 6	80 0	10 0	1 4	1 4	32 20
113. WALPEUP .. .. .	913	3 6	130 0	10 0	1 4	1 4	60 140
114. WATCHEM .. .. .	2,116	3 6	80 0	10 0	1 3	1 3	106 210
115. WOOMELANG .. .. .	2,272	2 4	50 0	10 0	1 3	1 3	120 330
116. WOORINEN .. .. .	1,736	3 6	80 0	10 0	1 3	1 3	74 260
117. WYCHEPROOF .. .. .	6,579	3 0	80 0	10 0	1 3	1 3	237 820
118. YAAPEET .. .. .	308	3 6	80 0	10 0	1 4	1 4	28 56
Totals .. .. .	140,232	..	..	..	..	..	5,162 14,639
<i>Supplied from Torumbarry System.</i>							
119. COHUNA .. .. .	23,795	1 4	30 0	10 0	1 3	1 3	487 1,350
120. KOONDROOK .. .. .	5,156	3 6	80 0	10 0	1 3	1 3	193 570
121. LEITCHVILLE .. .. .	5,207	3 6	80 0	10 0	1 3	1 3	115 275
122. MURRABIT .. .. .	811	3 6	80 0	10 0	1 4	1 4	31 87
Totals .. .. .	34,969	..	..	..	..	..	826 2,282
<i>Supplied direct from River Murray.</i>							
123. CARWARP .. .. .	95	3 6	80 0	10 0	1 4	1 4	15 31
124. LAKE BOGA .. .. .	3,294	3 6	80 0	10 0	1 3	1 3	155 430
125. MERBEIN .. .. .	17,959	2 0	40 0	10 0	1 3	1 3	472 1,350
126. MERINGUR .. .. .	282	3 6	100 0	10 0	1 8	1 8	26 72
127. NYAH .. .. .	1,749	3 0	60 0	10 0	1 3	1 3	76 200
128. NYAH WEST .. .. .	6,741	2 0	40 0	10 0	1 3	1 3	183 470
129. PIANGIL .. .. .	1,097	3 6	80 0	10 0	1 3	1 3	87 150
130. RED CLIFFS .. .. .	31,502	2 0	40 0	10 0	1 3	1 3	606 2,150
131. ROBINVALE .. .. .	5,318	3 6	80 0	10 0	1 4	1 4	134 343
132. WERRIMUL .. .. .	1,028	3 6	100 0	10 0	1 8	1 8	61 128
Totals .. .. .	69,065	..	..	..	..	..	1,815 5,324
<i>Miscellaneous.</i>							
133. COROP .. .. .	152	3 6	80 0	10 0	1 3	1 3	13 50
134. DINGEE .. .. .	401	3 6	80 0	10 0	1 3	1 3	22 55
135. HEYFIELD .. .. .	9,733	3 0	60 0	10 0	1 3	1 3	270 1,290
136. LOCKINGTON .. .. .	4,450	2 0	40 0	10 0	1 3	1 3	102 280
137. MACORNA .. .. .	715	3 6	135 0	10 0	1 4	1 4	33 44
138. MARONG .. .. .	1,216	3 6	80 0	10 0	1 3	1 3	50 200
139. MITIAMO .. .. .	934	3 6	130 0	10 0	1 3	1 3	53 140
140. NEWSTEAD .. .. .	4,544	3 6	80 0	10 0	1 3	1 3	173 400
Carried forward .. .. .	22,145	..	..	..	..	..	716 2,459

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

Districts Supplied with Water for Domestic and Ordinary Use from Pipe Reticulations.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1953.	Minimum Amount of Rate for Lands on which there is a Building.	Minimum Amount of Rate for Lands on which there is no Building.	Water Charge per 1,000 Gallons.	Number of Assessments.	Estimated Number of Persons Dwelling in District.
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URBAN DISTRICTS AND DIVISIONS—continued.

<i>Miscellaneous—continued.</i>				Municipal Valuation.				Rate Allowance.	Excess.		
				£	s. d.	s. d.	s. d.	s. d.	s. d.		
Brought forward .. ..				22,145	..	..	..	..	..	716	2,459
141.	PYRAMID HILL	..	..	6,414	2 0	40 0	10 0	1 3	1 3	168	590
142.	STANHOPE ..	..	..	3,036	1 8	40 0	10 0	1 3	1 3	85	405
143.	TALLYGARBOOPNA	..	..	893	3 6	100 0	10 0	1 3	1 3	40	95
144.	WONTHAGGI	..	..	63,878	1 6	30 0	10 0	1 3	1 3	1,862	5,500
Totals .. ..				96,366	..	..	..	..	..	2,871	9,049

## COLIBAN SYSTEM.

	Municipal Valuation.				Rate Allowance.	Excess.		
	£	s. d.	s. d.	s. d.	s. d.	s. d.		
145. COLIBAN .. .. .	655,719	1 6	20 0	10 0	1 3	1 3	16,087	62,800
<p>Includes Bendigo, Castlemaine, Eaglehawk, Maldon, Barker's Creek, Campbell's Creek, Chewton, Elphinstone, Epsom, Ascot, Fryerstown, Guildford, Harcourt, Huntly, Kangaroo Flat, Myer's Flat, Raywood, Sebastian, Spring Gully, Taradale, and Yapeen.</p> <p>See under Waterworks Districts for Axe Creek and Harcourt rural supplies and under Urban Districts for Marong.</p>								
Totals (Urban) .. ..	2,324,156	..	..	..	..	..	57,585	165,538

District.	Unimproved Capital Value.	Rate in the £1 made during Year ended 30th June, 1953.	Number of Assessments.	Estimated Number of Persons Dwelling in District.
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## DRAINAGE DISTRICT.

						Divisions.							
						1st.	2nd.	3rd.	4th.				
						<i>s. d.</i>	<i>s. d.</i>	<i>s. d.</i>	<i>s. d.</i>				
146.	CARRUM	..	..	..	..	£ 858,263	0 4	0 3	0 2	0 1	5,473	5,100	
						(with a minimum amount of rate of 2/6 per tenement)							

District.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1953.	Number of Assessments.	Estimated Number of Persons Dwelling in District.
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## FLOOD PROTECTION DISTRICTS.

				Valuation by Commission. N.A.V.	Divisions.					
					1st.	2nd.	3rd.	4th.		
				£	s. d.	s. d.	s. d.	s. d.		
147.	LOWER KOO-WEE-RUP	..	..	70,940	4 0	3 0	2 0	1 0	1,097	3,000
				Area in Acres.	Charge per Acre made during Year ended 30th June, 1953.					
					s. d.	s. d.	s. d.	s. d.		
148.	CARDINIA	..	..	26,649	6 4	4 9	3 2	1 7	293	800
149.	KANYAPELLA	..	..	12,650	0 3	..	0 1½	..	45	67
150.	LOCH GARRY	..	..	41,687	0 2	..	..	..	114	195
Totals (Flood Protection)				80,986	..	..	..	..	1,549	4,062

MISCELLANEOUS WATER CHARGES.

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

For Irrigation Supplies to lands in the Western Wimmera and Wimmera United Waterworks Districts the charge for water is 15s. per acre foot with minimum annual payments for each and every holding. The minimum annual payment for any one holding in the Western Wimmera Waterworks District is either, £2 10s. 0d. per annum where the area irrigated is not greater than 3½ acres or, 15s. per acre per annum where the area irrigated exceeds 3½ acres. In the Wimmera United Waterworks District the minimum annual payment for any one holding is 15s. per acre per annum for the area irrigated.

For Domestic and Stock Supplies from the Commission's pipe lines to properties outside proclaimed Urban Districts the charges are in accordance with the Commission's By-law No. 4699 or by special agreement, and are as follow :—

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

## FINANCE

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

## REVENUE.

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

Year.	Water Rates and Charges, Diversion and Grazing Fees, &c.	Recoup on Account of Payments from Revenue.	Interest on (a) Lands Sold, (b) Plant and Machinery Account.	Total.
	£	£	£	£
1950-51.. ..	1,064,120	527,963	(b) 41,241	1,633,324
1951-52.. ..	1,240,684	631,126	(a) 29	1,919,083
1952-53.. ..	1,373,558	615,731	(b) 47,244	2,036,226
			(a) 97	
			(b) 46,840	

The assessment for the year 1952-53 for rates and charges was £962,075 ; additional amounts collectable for sales of water, interest on arrears, &c., but excluding recoups (£615,731) were £410,145. The actual sum collected by way of rates and charges including arrears was £1,373,558, and represents an equivalent of 100·01 per cent. of the new money collectable (£1,372,220).

An amount of £20,107 was written off the books of the Commission for the financial year 1952-53, as compared with £16,240 for the previous year. The total amount written off for the seventeen years ended 30th June, 1953, under the various headings as shown hereunder, was £710,043.

	£
<i>Farmers' Debts Adjustment Act</i> 1935 (No. 4326) .. .. .	87,102
Adjustment of arrears of rates and charges and irrecoverable amounts—Act No. 4513 ..	171,945
Remission of Interest accrued on arrears to 30th June, 1940—Act No. 4740 ..	81,517
Reduction in rating classifications (Waterworks Districts) and of water right—Act No. 5017 .. .. .	8,635
Unoccupied or vacated Crown lands .. .. .	225,764
Reduction in rating classifications other than applicable to Act No. 5017 ..	13,218
Concessions granted to water-users .. .. .	50,630
<i>North-West Mallee Settlement Areas Act</i> 1948, No. 5321 .. .. .	19,585
Miscellaneous, including remission of interest accrued on Consolidated Arrears (Act No. 4740) subsequent to 30th June, 1940 .. .. .	51,647
	<hr/> 710,043

Subject to the provisions of the Water Act No. 4740, arrears of rates and charges totalling £437,635, as at 30th June, 1940, were consolidated, and are payable by instalments over periods up to twenty years from and inclusive of 1st January, 1941. The balance of instalments remaining as at 30th June, 1953, was £27,360. These consolidated arrears are not subject to interest conditionally upon the instalment being paid on the due date each year ; however, interest accrued to 30th June, 1953, through default in payment of instalments, amounted to £1,965.

The arrears of rates and charges decreased from £238,347 as at 1st July, 1952, to £217,881 as at 30th June, 1953—this figure includes the balance £27,360 plus accrued interest, of arrears consolidated under Act No. 4740, mentioned in the preceding paragraph.



**EXPENDITURE.**

The expenditure for the year on maintenance, water distribution, and management, and the comparative figures for 1951-52 are set out hereunder :—

	1951-52.	1952-53.
	£	£
From Annual Vote Appropriation.. .. .	2,266,608	*2,622,150
From Annual Vote Appropriation (Exceptional) .. .. .	26,387	†47,268
From Surplus Revenue, Act No. 4968 .. .. .	..	..
	<hr/> 2,292,995	<hr/> 2,669,418

\* Includes £372,864 for recoup works, and also £303,482 for administration (including salaries, pay-roll tax, &c.) in respect of expenditure from other funds, charged to vote and recouped to Consolidated Revenue.

† Consists of £7,894 assistance to Sewerage Authorities where works are suspended; £15,336 subsidies to Sewerage Authorities in cases where the interest paid on Capital Liability is in excess of 3 per cent.; £586 subsidies to local Water Authorities to offset losses in reduction of rates; £2,107 advance to State Electricity Commission to meet cost of works necessary to maintain water supply to Bacchus Marsh township; £329 emergency repairs to pumping plant of Nhill Waterworks Trust; £19,971 cost of drainage works from Lake Colac and Lough Calvert; £1,045 compensation paid to land holder for loss of stock through flooding.

Total expenditure on works carried out or supervised by the Commission for the year 1952-53 was as set out hereunder :—

	£	£
Vote Funds .. .. .	2,669,418	
Special Appropriation .. .. .	8,328	
	<hr/>	2,677,746
Ordinary Loan Funds—		
Commission Works .. .. .	6,245,306	
Contribution to River Murray Commission Works .. .. .	119,000	
Waterworks Trusts and Local Governing Bodies .. .. .	510,000	
River Improvement Trusts .. .. .	36,054	
Latrobe Valley Drainage .. .. .	9,551	
	<hr/>	6,919,911
Water Supply Works Depreciation Fund .. .. .	..	89,337
		<hr/>
Total Expenditure on construction, operation, maintenance, and administration of Commission's Works and Water Supply Works supervised by Commission, including subsidies to Sewerage Authorities, &c. .. .. .	..	9,686,994
		<hr/>
Expenditure on Capital construction works was provided from :—		
Water Supply Loans Application Act No. 5485 .. .. .	..	2,091,244
Water Supply Loans Application Act No. 5589 .. .. .	..	4,828,667
		<hr/>
		6,919,911
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 .. .. .	..	17,763
		<hr/>
The total increase in Loan Liability for the year was therefore .. .. .	..	6,937,674

The contribution by the Government of Victoria to the River Murray Commission for the maintenance of works under the River Murray Agreement was £38,975 (included in the expenditure from Annual Vote Appropriation as shown above). The actual expenditure by this Commission on the maintenance of these works was £22,529, and on construction of new works £270,818.

**CAPITAL LIABILITY.**

The Capital Loan Liability of the State for works of Country Water Supply at 30th June, 1953, was £63,488,479, of which amount £57,178,363 is charged to the "Capital Expenditure borne by the State Account." Of the remainder £3,640,813 is charged to Waterworks Trusts and Local Governing Bodies, £19,161 to River Improvement Trusts, £18,921 is charged to Latrobe Valley drainage under the general supervision of the Commission, £1,496,113 is debited to the Plant and Machinery Account, and the balance, £1,135,108, represents the Capital Liability, after adjustment, debited to Districts and Divisions directly under the control of the Commission and to plant workshops. These figures are exclusive of an equity of £5,346,976 in the National Debt Sinking Fund.

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

rate of interest per centum (as determined by the Treasury) payable by the State of Victoria on securities in respect of Water Supply Loan Liabilities as at the thirtieth day of June in the preceding financial year. The average rate per centum of interest so charged for 1952-53 is £3 4s. 3d.

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

	£	s.	d.
Interest .. .. .	1,904,847	4	4
Exchange on overseas interest .. .. .	120,337	11	8
Loan Conversion expenses .. .. .	746	1	1
	2,025,930	17	1

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 1952-53 in relation to the Capital Liability.

Capital Debited to—	Capital Liability as at 30th June, 1953.	Interest Liability (excluding Exchange and Loan Conversion Expenses).	Interest Paid by Water Users (including Arrears).
	£	£	£
Districts and Divisions under the direct control of the Commission .. .. .	1,135,108	26,555	12,352
Waterworks Trusts, Local Governing Bodies and River Improvement Trusts, and Latrobe Valley drainage	3,678,895	119,115	119,762
Plant and Machinery Account .. .. .	1,496,113	46,840	46,840
Capital Expenditure borne by the State Development Account .. .. .	57,178,363	1,712,337	..
	63,488,479	1,904,847	178,954

### ONCOST.

In order to meet the cost of Administration (as distinct from local supervision), Pay-roll Tax, Workers' Compensation, and other overhead expenses, an oncost charge of  $8\frac{1}{2}$  per cent. is levied on the prime cost of works carried out from all funds other than Vote and is designed to cover in approximation the following items :—

#### Administration and Supervision—

	%	%
Head Office Administration .. .. .	$3\frac{1}{4}$	
Head Office Divisional Officers and Staff .. .. .	$1\frac{3}{4}$	
	—	5
Pay-roll Tax .. .. .		$1\frac{1}{2}$
Workers' Compensation Insurance .. .. .		1
General Expenditure—		
Printing, Stationery, Postages, Telephones, &c. ..		1
		—
		$8\frac{1}{2}$
		—

### DEPRECIATION.

The amount at credit of the Water Supply Works Depreciation Account in the Commission's books at 1st July, 1952, was £649,443 8s. 7d. An amount of £90,024 6s. 3d. was raised during the financial year 1952-53 for purposes of depreciation.

A further sum of £1,708 19s. 9d. was paid direct to the credit of the Fund, being amounts contributed by land holders and other bodies as capitalized maintenance of water supply works constructed for their respective benefits.

After crediting the Account with interest amounting to £16,851 5s. 11d. and deducting the expenditure (£89,337 7s. 9d.) from Depreciation for the year, the balance remaining in the Account as at 30th June, 1953, was £668,690 12s. 9d.

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

No transfer from the Commission's revenue to the Water Supply Works Depreciation Fund in the Treasury has been made since the year 1947-48. The difference between the credit to the Depreciation Fund and the amounts credited to the Depreciation Account in the Commission's books now totals £518,144 (representing depreciation £471,342 and interest not yet credited £46,802).

The amount at credit of the Water Supply Works Depreciation Fund in the Treasury books is now fully committed and it is essential that additional money be placed to the credit of the Fund at an early date. It is desirable, in order to avoid fluctuations in the Commission's revenue and to provide for heavy future expenditure in respect of depreciation, that transfers be made annually to the Depreciation Fund.

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

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

The capital liability for large-size moveable plant and machinery, held in the Plant and Machinery Account as at 30th June, 1953, was £1,496,112 16s. 1d. (This amount is exclusive of plant in use on major construction works.)

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 £145,495 9s. 5d.

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 £511,830 2s. 9d. as at 30th June, 1953.

The amount at debit of the Water Supply Stores Suspense Account as at 30th June, 1953, was £1,005,384 0s. 5d.—whereas the book value of stores and equipment controlled within the Account was £1,150,879 9s. 10d. The difference, £145,495 9s. 5d., 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.

The net debit for plant and material held by the Commission as at 30th June, 1953, is £3,378,757 10s., and is controlled within funds provided from the following sources:—

		£	s.	d.	£	s.	d.
Water Supply Stores Suspense Account (Act No. 5253)	..	..	..	..	1,005,384	0	5
Water Supply Loans Application Acts—							
Rocklands Reservoir (Suspense Account)	..	..	117,906	0	0		
Glenelg River Works (Suspense Account)	..	..	7,964	17	9		
Big Eildon Dam (Suspense Account)	..	..	83,088	15	1		
Cairn Curran Reservoir (Suspense Account)	..	..	142,687	3	0		
Central Gippsland Irrigation Project (Suspense Account)	..	..	208,801	14	2		
Robinvale Irrigation District (Suspense Account)	..	..	10,799	12	1		
Murray Valley Irrigation District (Suspense Account)	..	..	70,842	7	4		
Goulburn-Waranga Channel Duplication (Suspense Account)	..	..	29,071	0	0		
Tarago Tunnel Project (Suspense Account)	..	..	206,099	4	1		
					877,260	13	6
Plant and Machinery Account (Act No. 4761)	..	..	..	..	1,496,112	16	1
					3,378,757	10	0

### REVENUE EXPENDITURE CHARGEABLE TO THE STATE ACCOUNT.

The Commission, by direction of the Governor in Council, has throughout 1952-53 continued the operation of 4 Irrigation Districts, 17 Waterworks Districts, 47 Urban Districts, and 6 Urban Divisions in respect of which Districts and Divisions the works would not produce sufficient revenue to cover the expenses of maintenance and management. Section 6 of the *Water Act* 1937 (No. 4513) provides that the annual amount of the loss resulting from the maintenance and management of such works shall be transferred in the books of the Commission to the "Revenue Expenditure chargeable to the State Account." The amount so transferred for 1952-53 was £360,413, making a total of £2,755,381 borne by the State since 1st July, 1938.

In twenty of these districts an aggregate cash surplus of revenue over expenditure of £3,703 was obtained. This amount was applied to Interest (£161), Redemption (£5), and Depreciation (£1,057), leaving a sum of £2,480 available to the credit of the respective districts.

The above figures are exclusive of interest due on Capital Liability incurred in respect of works under construction, which has accrued due before the first rate or charge has been made. Such interest charges are, in accordance with the provisions of the *Water Act* No. 4513, charged to the "Revenue Expenditure chargeable to the State Account."

### FINANCIAL STATEMENTS.

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

#### FINANCIAL OPERATIONS, 1952-53.

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

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

#### "PAYING" DISTRICTS.

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

The aggregate financial transactions for the year 1952-53, however, in respect of the districts listed hereunder, resulted in an excess of expenditure over revenue to the extent of £238,074. This is due mainly to increased operating costs.

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

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

#### *Waterworks Districts (13).*

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

*Urban Divisions and Districts (38).*

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

*Drainage District (1).*

Carrum

## “NON-PAYING” DISTRICTS.

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

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

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

*Irrigation and Water Supply Districts (4).*

Fish Point	Nyah	Red Cliffs-Merbein	Tresco
------------	------	--------------------	--------

*Waterworks Districts (17).*

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

*Urban Divisions and Districts (53).*

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

In districts marked “\*” the operations for 1952-53 resulted in an aggregate cash surplus of £3,703. Of this amount, a sum of £1,223 has been applied to redemption and interest.

The amount debited to “The Revenue Expenditure chargeable to the	£
the State Account” in respect of Districts maintained during 1952-53 by	
direction of the Governor in Council, in which the Revenue was insufficient to	
meet operating costs, was	360,413

## 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 to waterworks trusts, sewerage authorities, river improvement trusts, and of works constructed from other funds, &c. In addition, the salaries (provided for under special appropriation) paid to the Commissioners of the State Rivers and Water Supply Commission, are debited to the annual cost of operating country water supply works.

The Total Cost of Services of a National Character administered by the Commission during 1952-53, and paid from the Commission's Vote Appropriation was .. .. .	£
.. .. .	890,309
This amount may be offset by miscellaneous revenue collected in respect to diversion permits, rents, recoup payments, &c. . . . .	673,725
	<u>216,584</u>

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

#### NET COST TO STATE.

It is indicated in the Auditor-General's Report for 1952-53 that the net cost to the State for the year in connexion with country water supply which has been met from general revenue was £2,551,960. This figure includes the cost of the service referred to earlier. The equivalent figure stated annually is often incorrectly quoted as a " loss " in respect of country water supply, whereas the only amount which, on the existing basis of rates and charges, might be correctly regarded as a cash " loss " is the amount of £596,007 being the net deficiency (£357,933) on Districts in which the revenue was insufficient to meet expenses, the operations of which, as already intimated, were continued by direction of the Governor in Council plus a loss of £238,074 on other Commission Districts.

A summary of the total cost (£2,551,960) to the State for the year is set out hereunder—a more detailed analysis is set out on page 65 of this Report.

	£	£
Net loss on Commission Districts .. .. .	238,074	
Net loss on " Order in Council " Districts .. .. .	357,933	
		596,007
Cost of " National Services " .. .. .	890,309	
Less Miscellaneous Revenue Collected .. .. .	673,725	
		<u>216,584</u>
		812,591
Interest, Exchange, and Loan Conversion Expenses on Headworks and Capital borne by the State .. .. .	1,833,421	
Less Interest on Land sold .. .. .	£97	
Less Interest paid by Waterworks Trusts in excess of amounts charged 1952-53 .. .. .	647	
	<u>744</u>	
		<u>1,832,677</u>
		2,645,268
Less amount paid to Revenue in respect of Depreciation (£90,024) and Redemption (£3,284) .. .. .		93,308
		<u>2,551,960</u>

The net cost to the State (£2,551,960) was £433,828 more than the comparable figure for the previous year.

Major increases in expenditure occurred in Operating Expenses (£217,759) Interest Charge (£179,888) on Capital Liability debited to districts, whilst costs of administration and amounts not yet recouped in respect of expenditure from other funds accounted for £154,846. In comparison with the year 1951-52, Irrigation Charges increased by £12,514, Rating Assessments by £35,431, and Water Sales by £33,647.

Provision exists for the transfer from the " Capital Expenditure borne by the State Account " to the direct liability of water users of such amounts of the Capital Liability as are commensurate with the development of the respective districts. Accordingly, additional Capital Liability totalling £1,262,101 in respect of some urban districts within the Mornington Peninsula System, and the Dimboola and Wonthaggi Urban Districts, will be transferred from the State—borne Capital to the direct debit of the districts. This transfer of Capital will be effective as from 1st July, 1953, and will include the sum of £302,821, referred to in the report for the year 1951-52, the operative date of which transfer was deferred.

Major Water Supply Projects under construction will involve a large expenditure of capital funds, but as the cost of these works will be borne by the State, it is inevitable that, notwithstanding increasing developments the cost to the State will tend to increase. The amount (£2,551,960) borne by the community for the year 1952-53 is equivalent to £1 ls. 5d. per head of the population of the State, and represents the contribution of the individual citizen towards the indirect but enormous benefits derived from the State works of Country Water Supply.

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## FINANCIAL STATEMENTS

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

*Disbursements, 1952-53.*

	Operating Expenses.			Interest on Capital Allotted.			Depreciation Paid by Districts.						Redemption Paid by Districts.			Total Disbursements.		
							On Works.			On Buildings.								
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
Central Plant Workshops—Bendigo	30,785	8	8	529	1	10	970	0	0	300	0	0	254	5	5	32,838	15	11
Coliban Works .. .. .	122,151	18	5	9,417	11	7	7,755	0	0	505	0	0	..	..	..	139,829	10	0
Irrigation Districts .. .. .	931,567	10	0	..	..	..	40,960	0	0	6,611	0	0	..	..	..	979,138	10	0
Irrigation Urban Divisions .. .. .	11,720	2	6	157	0	7	835	6	3	..	..	..	1	3	3	12,713	12	7
Waterworks Districts .. .. .	510,083	6	4	6,752	4	6	10,670	0	0	2,089	0	0	626	11	2	530,221	2	0
Waterworks Urban Districts .. .. .	165,310	14	8	9,699	8	9	18,534	0	0	684	0	0	2,402	2	7	196,630	6	0
Flood Protection Districts .. .. .	29,165	3	5	..	..	..	..	..	..	85	0	0	..	..	..	29,250	3	5
Carrum Drainage District .. .. .	14,153	16	0	..	..	..	..	..	..	26	0	0	..	..	..	14,179	16	0
	1,814,938	0	0	26,555	7	3	79,724	6	3	10,300	0	0	3,284	2	5*	1,934,801	15	11
Expenditure not chargeable to Districts—River Murray Commission, Recoupable and other items .. .. .	854,480	8	7	..	..	..	..	..	..	..	..	..	..	..	..	854,480	8	7
	2,669,418	8	7	26,555	7	3	79,724	6	3	10,300	0	0	3,284	2	5*	2,789,282	4	6

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

*Receipts, 1952-53.*

	Water Rates and Charges Division and Grazing Fees, &c.	Recoups on Account of Payments from Revenue.	Total Collections Paid to Consolidated Revenue.	Excess.	
				Receipts over Disbursements.	Disbursements over Receipts.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Central Plant Workshops—Bendigo .. ..	791 0 2	51,588 8 6	52,379 8 8	19,540 12 9	
Coliban Works .. ..	99,783 18 4	36 17 0	99,820 15 4	..	40,008 14 8
Irrigation Districts .. ..	687,282 16 11	1,350 15 10	688,633 12 9	..	290,504 17 3
Irrigation Urban Divisions .. ..	13,094 0 7	36 3 8	13,130 4 3	416 11 8	
Waterworks Districts .. ..	246,532 3 7	180 17 10	246,713 1 5		283,508 0 7
Waterworks Urban Districts .. ..	214,680 4 2	102 3 2	214,782 7 4	18,152 1 4	
Flood Protection Districts .. ..	17,012 5 2	..	17,012 5 2	..	12,237 18 3
Carriam Drainage District .. ..	6,322 12 6	..	6,322 12 6	..	7,857 3 6
	1,285,499 1 5	53,295 6 0	1,338,794 7 5	38,109 5 9	631,116 14 3
Diversions and Miscellaneous .. ..	88,058 18 3	..	88,058 18 3	88,058 18 3	..
Recoups of amounts paid from Revenue not credited to Districts .. ..	..	562,435 8 6	562,435 8 6	..	292,045 0 1
	1,373,557 19 8	615,730 14 6	1,989,288 14 2	126,168 4 0	926,161 14 4

### SUMMARY OF OPERATIONS FOR YEAR 1952-53.

<i>Receipts.</i>				COMMISSION DISTRICTS.		<i>Expenditure.</i>				(Result.)	
				£	s. d.					£	s. d.
Rates and Charges	..	..	..	1,338,794	7 5	Vote Funds	..	..	..	1,814,938	0 0
less Depreciation Transfer				..							
				1,338,794	7 5	Interest charged on Capital borne by Districts	..	..		26,555	7 3
Deficiency	..	..	..	502,698	19 10						
				1,841,493	7 3					1,841,493	7 3
OTHER WORKS AND SERVICES.											
<i>Diversions, Grazing Rentals, &amp;c.</i>											
Permits and Licence Fees and Charges, Grazing Rentals, &c..	..	..	..	88,058	18 3	Surplus	..	..	..	88,058	18 3
				88,058	18 3					88,058	18 3
<i>Construction, Administration and Works for Other Authorities, and Water Users.</i>											
On-cost received	..	..	..	193,785	16 3	Administration	..	..	..	303,483	16 4
Recoups of Expenditure	..	..	..	368,399	12 3	Expenditure Recoupable	..	..	..	372,864	9 0
Deficiency	..	..	..	114,162	16 10						
				676,348	5 4					676,348	5 4
<i>River Murray, Sewerage, and Miscellaneous National Services.</i>											
Recoup of Expenditure	..	..	..	250	0 0	Commissioners' Salaries				7,000	0 0
Grants to Sewerage Authorities	..	..	..	23,230	4 11	River Murray, Sewerage, and Trusts	..	..	..	62,791	1 11
						Miscellaneous National Services	..	..	..	115,341	1 4
Deficiency	..	..	..	190,480	2 7	Pensions and Gratuities	..	..	..	28,828	4 3
				213,960	7 6					213,960	7 6
Net Cost to the State for Services of a National Character										..	Dr. 719,283 1 0
<i>Capital Charges</i>											
Interest Paid by Trusts	..	..	..	119,761	18 0	Interest, Exchange, and Loan	..	..	..		
from Plant Hire, &c.	..	..	..	46,937	2 0	Conversion Expenses	..	..	..	2,025,930	17 1
charged to Commission Districts	..	..	..	26,555	7 3						
Deficiency	..	..	..	1,832,676	9 10						
				2,025,930	17 1					2,025,930	17 1
Total Expenditure Borne by the State										..	2,551,959 10 10



## ANALYSIS OF EXPENDITURE BORNE BY THE STATE, 1952-53.

	£	s.	d.	£	s.	d.
Services of a National Character—						
River Murray Commission's Contributions by State of Victoria in accordance with the provisions of the River Murray Waters Acts .. .. .	..	..	..	38,975	0	0
Assistance to Sewerage Authorities—						
Where suspension of Works is being continued .. .. .	7,894	0	0			
In cases where the Interest paid on Capital Liability is in excess of the rate 3 per cent. ..	15,336	1	11	23,230	4	11
Subsidies to Waterworks Trusts and Local Governing Bodies to enable a reduction of 33½ per cent. to be made in Water Rates .. .. .	..	..	..	585	17	0
Payment to First Mildura Irrigation Trust consistent with reduction in Rates in Pumping Districts in Irrigation Areas controlled by the Commission .. .. .	..	..	..	20,000	0	0
Emergency repairs to Borehole Pumping Plant of Nhill Waterworks Trust .. .. .	..	..	..	329	0	0
Advance to S.E.C. to meet expense incurred in providing electric energy to ensure continuance of Water Supply to Bacchus Marsh Township .. .. .	..	..	..	2,107	0	0
Grant to Colac Shire Council for Drainage Works to deal with overflow from Lough Calvert and Lake Colac .. .. .	..	..	..	19,971	10	6
Miscellaneous Services—						
Administration Waterworks Trusts and Sewerage Authorities, &c. .. .. .	12,945	18	3			
Administration Farm Water Supplies (Act No. 5020) .. .. .	1,002	12	8			
Irrigation Branch .. .. .	6,959	14	8			
Travelling, Minister and Commissioners .. .. .	3,757	19	3			
Minister's staff, salaries and Pay-Roll Tax, Commissioners' Cost of Living Allowances and Pay-Roll Tax .. .. .	3,544	13	7			
Free Water for Research, Free Places Melbourne University, Library, Publicity, &c. ..	9,739	2	8			
Rivers and Reclamation Division, River Gaugings, Diversions, Land Leasing, Surveys and Reports, Underground Water and Mining Investigations, Hydraulic Research .. .. .	34,983	9	9	72,933	10	10
Administration in respect to Expenditure from other Funds and Works carried out for other Authorities (including Salaries, Pay-Roll Tax, &c.) .. .. .	..	..	..	303,483	16	4
Works carried out for Other Authorities and Water Users, and Salaries charged to construction Projects, Recoupable .. .. .	..	..	..	372,864	9	0
TOTAL (from Vote Funds) .. .. .	..	..	..	854,480	8	7
Commissioner's Salaries (Special appropriation) .. .. .	..	..	..	7,000	0	0
TOTAL Expenditure on Services of a National Character .. .. .	..	..	..	861,480	8	7
Amount debited by Treasury for Pensions and Gratuities .. .. .	..	..	..	28,828	4	3
				890,308	12	10
Less Revenue received from Headworks, Diversion Permits, &c., £88,058 18s. 3d.; On-cost of Expenditure from Other Funds, £193,785 16s. 3d.; Recoups, £368,399 12s. 3d. ..	650,244	6	9			
„ Special Recoup, Commissioner's Salaries .. .. .	250	0	0			
„ Grants by State, Assistance to Sewerage Authorities .. .. .	23,230	4	11	673,724	11	8
Net cost to the State for Services of a National Character .. .. .	..	..	..	216,584	1	2
Interest on Capital Expenditure on Headworks and other Capital Expenditure borne by the State .. .. .						
Exchange on Overseas Interest Payments .. .. .	1,712,336	16	11			
Loan Conversion Expenses .. .. .	120,337	11	8			
	746	1	1			
	1,833,420	9	8			
Less Interest paid by Waterworks Trusts in excess of amount charged 1952-53 .. .. .	646	16	9			
„ Interest on Lands Sold .. .. .	97	3	1	743	19	10
				1,832,676	9	10
Commission Districts—						
Districts, the Capital Liability of which have been adjusted under Acts Nos. 4513 and 5017—						
Excess Expenditure over Revenue, after allowing for Depreciation, £55,519 6s. 3d., and Redemption, £3,279 3s. 6d. .. .. .	221,352	0	7			
Current Interest—						
Paid .. .. .	12,191	1	5			
Forward Unpaid .. .. .	4,531	5	2	16,722	6	7
				238,074	7	2
Districts supplied by direction of Governor in Council, but which show excess Revenue over Operating Costs after allowing for Depreciation, £1,057 3s. 6d., and Redemption, £4 18s. 11d.—						
Surplus .. .. .	2,640	13	7			
Less Current Interest Paid .. .. .	160	17	2	Cr. 2,479	16	5
				Dr. 235,594	10	9
Excess Expenditure in Districts supplied by direction of Governor in Council and showing excess Expenditure over Revenue inclusive of Interest, £9,672 3s. 6d., and Depreciation, £33,447 16s. 6d. .. .. .	360,412	17	9			
	596,007	8	6			
Add amounts transferred to Water Supply Works Depreciation Fund in Treasury on Account of moneys paid to Revenue and Interest credited to Depreciation Account .. .. .	..	..	..	596,007	8	6
Deduct amounts paid to Revenue in respect of Depreciation on Works and Buildings, £90,024 6s. 3d., and Redemption, £3,284 2s. 5d. .. .. .	93,308	8	8			
				502,698	19	10
Net Expenditure borne by the State .. .. .	..	..	..	2,551,959	10	10

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

## CAPITAL EXPENDITURE 1952-53.

	£	s.	d.	£	s.	d.
Expenditure during the year on Capital Works of Water Supply—						
Ordinary Loan Funds (Details, pages 104, 105, 106) .. .. .	..	..	..	6,919,911	3	10

## LOAN CAPITAL LIABILITY.

Net Loan Liability of State for Works of Country Water Supply at 30th June, 1953 .. .. .	..	..	..	58,770,820	8	11
--	----	----	----	------------	---	----

Represented by—

Works at Debit of Authorities—

	£	s.	d.
Commission Districts .. .. .	1,117,361	13	5
Water Supply Plant and Machinery Account .. .. .	1,496,112	16	1
Plant Workshops .. .. .	17,743	17	2
Waterworks Trusts and Local Governing Bodies .. .. .	3,610,813	8	7
River Improvement Trusts .. .. .	19,161	5	10
Latrobe Valley Drainage .. .. .	18,920	14	9
	6,310,116	15	10

Capital Expenditure Borne by the State—

Headworks not apportionable to Districts .. .. .	3,966,255	18	5
Capital Works and Charges not apportionable to Districts .. .. .	1,256,403	16	1
Headworks and Distributary Works .. .. .	48,734,689	7	0
Waterworks Trusts and Local Governing Bodies .. .. .	3,078,657	6	5
Free Grants to Local Authorities in early years .. .. .	142,356	4	11
	57,178,362	12	10

Net Loan Capital Liability of Commission's Districts, Divisions, and Works under Control of the Commission .. .. .	..	..	..	63,488,479	8	8
--	----	----	----	------------	---	---

Less Amount from National Debt Sinking Fund, being the difference between redemption recoup contributions paid by Districts, Waterworks Trusts, &c. (£629,317 2s. 2d.) and the amount (£5,346,976 1s. 11d.) contributed from Consolidated Revenue to the National Debt Sinking Fund (page 115) .. .. .	..	..	..	4,717,658	19	9
--	----	----	----	-----------	----	---

58,770,820 8 11

Add Cash on Hand at Treasury .. .. .	..	..	..	..	..	..
Net Liability Country Water Supply Capital Account in Treasury .. .. .	..	..	..	58,770,820	8	11

## INTEREST AND EXCHANGE.

The Total Interest on the Loan Liability for 1952-53 is .. .. .	..	..	..	..	..	1,904,847 4 4
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To which is to be added—

Exchange payable on Overseas Interest .. .. .	..	..	..	..	..	120,337 11 8
Loan Conversion Expenses .. .. .	..	..	..	..	..	746 1 1
						2,025,930 17 1

Interest Debitable to—

Works at Debit of Authorities—

Commission Districts .. .. .	..	..	..	..	..	26,555 7 3
Trusts .. .. .	..	..	..	..	..	119,115 1 3
Water Supply Plant and Machinery Account .. .. .	..	..	..	..	..	46,839 18 11
						192,510 7 5

Capital Expenditure Borne by the State—

Capital Works and Charges .. .. .	..	..	..	..	..	118,778 12 2
State Works of Water Supply .. .. .	..	..	..	..	..	37,625 17 11
Headworks and Distributary Works not debited to Districts .. .. .	..	..	..	..	..	1,459,471 13 5
Waterworks Trusts and Local Governing Bodies .. .. .	..	..	..	..	..	92,197 9 10
Free Grants to Local Authorities in early years .. .. .	..	..	..	..	..	4,263 3 7
						1,712,336 16 11

Exchange £120,337 11s. 8d. and Loan Conversion Expenses, £746 1s. 1d. not apportioned .. .. .	..	..	..	..	..	1,904,847 4 4
						121,083 12 9

2,025,930 17 1

## RECEIPTS AND DISBURSEMENTS.

STATEMENT of Moneys Received and Disbursed during the Year Ended 30th June, 1953.

Works.	Receipts.			Disbursements from Annual Vote and (a) Special Appropriation (Exclusive of Interest Redemption and Depreciation Charges.)
	Total.	Paid to Depreciation Fund.	Paid to Consolidated Revenue.	
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
<b>Commission's Districts—</b>				
Central Plant Workshops, Bendigo .. ..	52,379 8 8	..	52,379 8 8	30,785 8 8
Coliban Works .. ..	99,820 15 4	..	99,820 15 4	122,151 18 5
Irrigation Districts .. ..	688,633 12 9	..	688,633 12 9	931,567 10 0
Irrigation Urban Divisions .. ..	13,130 4 3	..	13,130 4 3	11,720 2 6
Waterworks Districts .. ..	246,713 1 5	..	246,713 1 5	510,083 6 4
Waterworks Urban Districts .. ..	214,782 7 4	..	214,782 7 4	165,310 14 8
Flood Protection Districts .. ..	17,012 5 2	..	17,012 5 2	29,165 3 5
Carrum Drainage District .. ..	6,322 12 6	..	6,322 12 6	14,153 16 0
	1,338,794 7 5	..	1,338,794 7 5	1,814,938 0 0
<b>Other works and services (not directly apportionable to Districts)—</b>				
Diversions—				
Rivers and Streams .. ..	19,109 19 0	..	19,109 19 0	..
Headworks .. ..	5,718 15 0	..	5,718 15 0	..
Miscellaneous, Grazing Rentals, &c. .. ..	63,230 4 3	..	63,230 4 3	..
	88,058 18 3	..	88,058 18 3	..
River Murray Commission .. ..	..	..	..	38,975 0 0
Assistance to Sewerage Authorities .. ..	..	..	..	23,230 4 11
Assistance to Waterworks Trusts .. ..	..	..	..	585 17 0
Miscellaneous National Services .. ..	..	..	..	115,341 1 4
Expenditure Recoupable .. ..	368,399 12 3	..	368,399 12 3	372,864 9 0
Administration in respect of Expenditure from other funds (including Salaries, Pay-Roll Tax, &c.) ..	193,785 16 3	..	193,785 16 3	303,483 16 4
	562,185 8 6	..	562,185 8 6	854,480 8 7
Total—Other Works and Services .. ..	650,244 6 9	..	650,244 6 9	854,480 8 7
Total—Vote .. ..	1,989,038 14 2	..	1,989,038 14 2	2,669,418 8 7
Commissioner's Salaries (Special Appropriation) ..	250 0 0	..	250 0 0	7,000 0 0
Grand Totals .. ..	1,989,288 14 2	..	1,989,288 14 2	2,676,418 8 7
Total Disbursements from Vote and special Appropriation .. ..	..	..	..	2,676,418 8 7
Net Receipts paid to Consolidated Revenue .. ..	..	..	1,989,288 14 2	
Grants from Revenue—				
To Assist Sewerage Authorities .. ..	..	..	23,230 4 11	2,012,518 19 1
Deficiency from Commission's Operations .. ..	..	..	..	663,899 9 6
<b>Amount not included in above Statement—</b>				
Debits by Treasury for Pensions and Gratuities .. ..	..	..	28,828 4 3	
Interest Paid :—By Waterworks Trusts and Local Governing Bodies, £119,761 18s. ; Plant and Machinery Account, &c., £46,839 18s. 11d. ; and on Land Sold £97 3s. 1d. ..	..	..	Cr. 166,699 0 0	
Deficiency Chargeable to State exclusive of Interest, Exchange, and Loan Conversion Expenses ..	..	..	..	Cr. 137,870 15 9
Interest, Exchange, and Loan Conversion Expenses .. ..	..	..	..	526,028 13 9
	..	..	..	2,025,930 17 1
Total amount borne by the State .. ..	..	..	..	2,551,959 10 10

CENTRAL PLANT WORKSHOPS—BENDIGO.  
CASH ACCOUNT.

District.	Receipts.			Expenditure.						Accumulated—						
	Receipts Year Ended 30th June, 1953.		Total to 30th June, 1953.	Year Ended 30th June, 1953.						Excess Expenditure over Receipts 1952-53.	Excess Receipts over Expenditure 1952-53.	Surplus Credited to District Account at 30th June, 1953.	Deficiency Chargeable to District Account at 30th June, 1953.	Deficiency Chargeable to State Account at 30th June, 1953. (Inclusive of Column 11.)		
	£	s. d.		Operating Costs.	Interest.	Depreciation.	Redemption.	Total.								
1.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	
1. Workshops ..	51,588	8 6	102,404	10 6	30,065	8 8	529	1 10	970	0 0	254	5 5	31,818	15 11	149,220	15 1
2. Residences (12) ..	791	0 2	3,035	15 5	729	0 0	..	..	300	0 0	..	..	1,020	0 0	3,355	0 0
Totals ..	52,379	8 8	105,440	5 11	30,785	8 8	529	1 10	1,270	0 0	254	5 5	32,838	15 11	152,575	15 1

COLIBAN SYSTEM.  
CASH ACCOUNT.

STATEMENTS of Moneys received and disbursed from 1st July, 1905, to 30th June, 1953; also of Interest charged at the rates of 3.212 per cent. on Capital Debits as at 30th June, 1943, and 3 per cent. on Capital Debits subsequent to 30th June, 1943, and of Depreciation and Redemption charged for Financial Year 1952-53.

District.	Receipts.			Expenditure.						Accumulated—			
	Year Ended 30th June, 1953.		Total 1905 30th June, 1953.	Year Ended 30th June, 1953.					Excess Expenditure over Receipts 1952-53.	Excess Receipts over Expenditure 1952-53.	Surplus Credited to District Account at 30th June, 1953.	Deficiency Chargeable to State Account at 30th June, 1953. (Inclusive of Column 11.)	
	Operating Costs.	Interest.		Depreciation.	Redemption.	Total.							
1.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	
1. Harcourt ..	4,425 18 11	68,559 11 11	4,511 8 2	..	48 0 0	..	4,559 8 2	67,810 3 6	133 9 3	..	749 8 5	..	
Totals ..	4,425 18 11	68,559 11 11	4,511 8 2	..	48 0 0	..	4,559 8 2	67,810 3 6	133 9 3	..	749 8 5	..	
The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By authority of Orders in Council, dated 8th November, 1943, 18th December, 1944, and 26th February, 1946, under the provisions of Section 6, <i>Water Act</i> 1937, No. 4513.)													
2. Axe Creek ..	857 18 2	14,500 5 6	1,037 10 11	..	4 0 0	..	1,041 10 11	15,863 8 9	183 12 9	..	..	972 10 0	
3. Coliban ..	94,230 16 8	2,155,585 14 10	116,294 13 7	9,416 17 1	8,167 0 0	..	133,878 10 8	3,211,324 12 2	39,647 14 0	..	..	13,729 8 9	
4. Marong ..	306 1 7	4,323 3 4	308 5 9	0 14 6	41 0 0	..	350 0 3	5,469 13 0	43 18 8	..	..	210 8 10	
Totals ..	95,394 13 5	2,174,409 3 8	117,640 10 3	9,417 11 7	8,212 0 0	..	135,270 1 10	3,232,657 13 11	39,875 5 5	..	..	14,912 7 7	
Grand Totals ..	99,820 15 4	2,242,968 15 7	122,151 18 5	9,417 11 7	8,260 0 0	..	139,829 10 0	3,300,467 17 5	40,008 14 8	..	749 8 5	14,912 7 7	

CENTRAL PLANT WORKSHOPS, BENDIGO.  
PROFIT AND LOSS ACCOUNT FOR FINANCIAL YEAR 1952-53.

	(A) Value of Work Completed or in Progress (B) House Rents,	Expenditure				Profit and Loss.					
		Operating Costs,	Interest,	Depreciation,	Redemption,	Total,	Expenditure in Excess of Earnings,	Earnings in Excess of Expenditure,	Adjustments to Revenue for Years Prior to 1952-53—Gain,	Loss as at 30th June, 1953,	Gain as at 30th June, 1953,
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
1. Workshops ..	..	30,065 8 8	529 1 10	970 0 0	44 1 10	31,608 12 4	..	1,188 14 1	3,400 6 1	35,821 18 8	..
2. Residences (11) ..	..	720 0 0	..	300 0 0	..	1,020 0 0	228 19 10	..	..	319 4 7	..
Totals ..	..	30,785 8 8	529 1 10	1,270 0 0	44 1 10	32,628 12 4	228 19 10	1,188 14 1	3,400 6 1	36,141 3 3	..

COLIBAN SYSTEM.  
PROFIT AND LOSS ACCOUNT FOR FINANCIAL YEAR 1952-53.

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

District.	Expenditure.						Profit and Loss.							
	Revenue Assessment.	Operating Costs.	Interest.	Depreciation.	Redemption.	Amounts Written Off.	Total.	Excess Expenditure over Assessment.	Excess Assessment over Expenditure.	Revenue Due for Previous Years Written Off.	Adjustments to Revenue for Years prior to 1952-53. (A) Loss. (B) Gain.	Interest and Other Losses prior to 30th June, 1938, Borne by State (Act No. 5017).	Loss since 30th June, 1938.	Gain as at 30th June, 1938.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
1. Harcourt .. ..	4,427 5 4	4,511 8 2	..	48 0 0	..	..	4,559 8 2	132 2 10	..	..	..	..	..	751 17 11
Total .. ..	4,427 5 4	4,511 8 2	..	48 0 0	..	..	4,559 8 2	132 2 10	..	..	..	..	..	751 17 11
The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By authority of Orders in Council, dated 28th November, 1943, 18th December, 1944, and 26th February, 1946, respectively, under the provisions of Section 6, <i>Water Act</i> 1937, No. 4513.)														
2. Axe Creek .. ..	869 6 7	1,037 10 11	..	4 0 0	..	..	1,041 10 11	172 4 4	..	..	(B) 0 16 0 (A) 1 11 11	..	1,201 3 11	..
3. Coliban .. ..	88,302 12 1	116,294 13 7	9,416 17 1	8,167 0 0	733 0 0	9 4 6	134,620 15 2	46,318 3 1	..	228 5 8	{ 828,373 18 10 (B) 39 0 7	..	227,770 15 7	..
4. Marong .. ..	299 12 7	308 5 9	0 14 6	41 0 0	0 1 10	..	350 2 1	50 9 6	..	..	..	..	1,100 13 11	..
Totals .. ..	89,471 11 3	117,640 10 3	9,417 11 7	8,212 0 0	733 1 10	9 4 6	136,012 8 2	46,540 16 11	..	228 5 8	{ 828,373 18 10 (B) 39 16 7	..	230,162 13 5	..
Grand Totals .. ..	93,898 16 7	122,151 18 5	9,417 11 7	8,260 0 0	733 1 10	9 4 6	140,571 16 4	46,672 19 9	..	228 5 8	{ 828,373 18 10 (B) 39 16 7	..	230,162 13 5	751 17 11

IRRIGATION AND WATER SUPPLY DISTRICTS.

CASH ACCOUNT.

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, 1953; also of Depreciation charged for Financial Year 1952-53. (State Works of Water Supply excluded).

District.	Receipts.			Expenditure.				Excess Receipts over Expenditure 1952-53.	Accumulated.		
	Receipts Year Ended 30th June, 1953.		Total 1906 to 30th June, 1953.	Year Ended 30th June, 1953.		Total.	Excess Receipts over Expenditure 1952-53.		Surplus (Credited to District Account at 30th June, 1953. (Inclusive of Column 8.)	Deficiency Chargeable to District Account at 30th June, 1953.	Deficiency Chargeable to State Account at 30th June, 1953. (Inclusive of Column 8.)
	£	s. d.		Operating Costs.	Depreciation.						
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£
1. Bacchus Marsh ..	8,136 7 1	225,352 2 11	11,998 11 5	275 0 0	12,273 11 5	265,697 10 0	4,137 4 4	..	..	19,174 18 10	21,170 8 3
2. Boort ..	9,995 18 3	213,983 11 9	18,379 19 5	1,008 0 0	9,387 19 5	272,973 8 10	9,392 1 2	..	..	57,369 1 10	1,620 15 3
3. Calvill ..	7,317 8 11	99,812 18 1	7,805 0 0	359 0 0	8,164 0 0	109,951 18 0	846 11 1	..	9,796 9 3	..	19,935 9 2
4. Campaspe ..	1,037 8 1	36,388 15 1	6,530 2 2	178 0 0	8,708 2 2	43,645 8 0	5,670 14 1	..	..	3,561 6 1	3,695 6 10
5. Central Gippsland ..	2,955 2 0	2,955 2 0	1,850 17 4	..	1,850 17 4	1,850 17 4	..	1,104 4 8	1,104 4 8	..	..
6. Coluna ..	40,156 16 6	868,415 18 1	48,190 10 11	2,320 0 0	50,510 10 11	890,967 11 6	10,353 14 5	..	..	7,406 12 7	15,145 0 10
7. Deakin ..	8,790 3 7	230,705 19 6	12,152 2 10	719 0 0	12,871 2 10	239,980 10 0	4,080 19 3	..	..	7,019 5 9	2,255 4 9
8. Dlugee ..	3,668 15 4	80,075 3 3	5,212 12 0	107 0 0	5,319 12 0	85,014 1 8	1,650 16 8	..	..	172 7 0	4,766 11 5
9. Katandra ..	6,464 19 11	85,522 14 3	8,401 0 3	160 0 0	8,561 0 3	113,392 19 9	2,096 0 4	..	..	12 5 5	27,858 0 1
10. Kerang ..	17,992 0 10	356,026 19 7	23,620 15 1	1,083 0 0	24,703 15 1	379,773 3 7	6,711 14 3	..	..	19,979 17 10	3,766 6 2
11. Koondrook ..	20,694 8 7	445,830 12 8	27,457 9 6	1,621 0 0	29,078 9 6	524,096 1 9	8,384 0 11	..	..	25,873 19 5	52,391 9 8
12. Maffra-Sale ..	31,267 8 1	451,647 11 7	59,517 16 1	1,633 0 0	61,150 16 1	542,140 1 10	29,883 8 0	..	..	86,779 8 10	3,713 1 5
13. Murray Valley ..	63,492 19 4	296,389 8 5	66,659 4 7	1,393 0 0	68,052 4 7	288,229 15 6	4,559 5 3	..	8,159 12 11	..	..
14. Mystic Park ..	1,946 5 3	35,779 14 9	3,892 8 2	66 0 0	3,958 8 2	55,593 19 2	2,012 2 11	..	..	17,611 7 9	2,112 16 8
15. North Shepparton ..	12,814 0 0	192,240 11 1	16,598 15 8	433 0 0	17,031 15 8	242,576 11 2	4,217 15 8	..	..	7,575 18 1	42,760 2 0
16. Robinvale ..	18,870 5 2	58,040 4 10	35,300 0 4	6,060 0 0	41,360 0 4	130,135 4 10	22,489 15 2	..	..	72,095 0 0	..
17. Rochester ..	51,644 3 0	949,017 3 4	69,194 15 0	1,484 0 0	70,678 15 0	1,000,707 15 4	10,034 12 0	..	..	16,527 15 6	35,162 16 6
18. Rodney ..	59,867 13 3	1,305,524 3 9	76,485 14 11	6,314 0 0	82,799 14 11	1,457,179 11 10	22,932 1 8	..	..	65,495 12 6	86,159 15 7
19. Shepparton ..	20,082 16 11	375,374 9 1	27,903 7 1	703 0 0	28,606 7 1	465,961 2 9	8,523 10 2	..	..	29,674 1 11	60,912 11 9
20. South Shepparton ..	3,643 11 8	71,883 19 3	6,351 1 8	200 0 0	6,551 1 8	82,226 18 3	2,907 10 0	..	..	7,607 2 3	2,735 16 9
21. Swan Hill ..	22,544 14 9	429,079 12 2	22,373 7 7	1,463 0 0	34,736 7 7	501,018 6 7	12,191 12 10	..	..	65,702 3 11	6,236 10 6
22. Third Lake ..	1,575 2 1	30,549 4 3	3,008 4 10	112 0 0	3,120 4 10	38,597 15 11	1,545 2 9	..	..	5,609 9 6	2,439 2 2
23. Tongala-Stanhope ..	48,938 4 1	704,851 12 4	61,069 0 5	1,191 0 0	62,260 0 5	885,950 10 0	18,321 16 4	..	..	57,475 19 6	73,622 18 2
24. Tragowel Plains ..	25,713 12 11	620,364 17 4	32,433 8 8	1,975 0 0	34,408 8 8	713,897 2 7	8,694 15 9	..	..	50,691 18 7	42,840 6 8
25. Werribee ..	12,017 19 11	272,399 9 2	17,409 0 9	508 0 0	17,917 0 9	306,846 17 2	5,899 0 10	..	..	18,971 17 9	15,475 10 3
Totals ..	496,628 5 6	8,438,211 18 6	680,695 6 8	31,365 0 0	712,060 6 8	9,588,315 3 4	216,536 5 10	1,104 4 8	19,060 6 10	642,387 10 10	526,776 0 10

IRRIGATION AND WATER SUPPLY DISTRICTS—continued.

CASH ACCOUNT—continued.  
STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, 1953; also of Depreciation charged for Financial Year 1952-53 (State Works of Water Supply excluded)—continued.

District.	Receipts.			Expenditure.					Accumulated.			
	Receipts Year Ended 30th June, 1953.	Total 1906 to 30th June, 1953.		Year Ended 30th June, 1953.			Total 1906 to 30th June, 1953.	Excess Expenditure Receipts 1952-53.	Excess Receipts over Expenditure 1952-53.	Surplus Credited to District Account at 30th June, 1953.	Deficiency Chargeable to District Account at 30th June, 1953.	Deficiency Chargeable to State Account at 30th June, 1953. (Inclusive of Column 8.)
		Operating Costs.	Depreciation.	Total.	£ s. d.	£ s. d.						
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.	
26. Fish Point	1,533 2 3	22,701 10 6	2,601 3 0	46 0 0	2,647 3 0	36,804 16 8	1,094 0 9	..	..	654 5 10	13,449 0 4	
27. Nyah	19,281 1 4	334,479 10 8	25,161 17 4	1,094 0 0	26,255 17 4	409,347 6 3	6,974 16 0	..	..	11,264 15 0	63,603 0 7	
28. Red Cliffs-Merbein	163,403 7 7	2,517,898 3 7	208,231 15 2	14,507 0 0	222,738 15 2	2,876,584 3 4	59,335 7 7	..	..	47,179 16 2	311,506 3 7	
29. Tresco	7,767 16 1	87,871 10 11	14,877 7 10	559 0 0	15,436 7 10	218,836 17 0	7,668 11 9	..	..	46 8 9	130,918 17 4	
Totals	192,005 7 3	2,962,950 15 8	250,872 3 4	16,206 0 0	267,078 3 4	3,541,573 3 3	75,072 16 1	..	..	59,145 5 9	519,477 1 10	
Grand Totals	688,633 12 9	11,401,162 14 2	931,567 10 0	47,571 0 0	979,138 10 0	13,129,888 6 7	291,609 1 11	1,104 4 8	19,060 6 10	701,532 16 7	1,046,253 2 8	

The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By authority of Orders in Council, dated 30th July, 1938, and 16th November, 1942, under the provisions of Section 6, *Water Act* 1937, No. 4513.)

The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By authority of Orders in Council, dated 30th July, 1938, and 16th November, 1942, under the provisions of Section 6, *Water Act* 1937, No. 4513.)

IRRIGATION AND WATER SUPPLY DISTRICTS.

PROFIT AND LOSS ACCOUNT FOR YEAR 1952-53.

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

District.	Revenue Assessment.			Expenditure.			Profit and Loss.					Gain as at 30th June, 1953.			
	(A) General Rate. (B) Drainage Rate.		(A) Irrigation Charge. (B) Sales and Miscellaneous.	Total. Revenue Assessments.	(A) Operating Costs. (B) Depreciation.		Amounts Written Off.	Total.	(A) Excess Expenditure over Assessment. (B) Excess Assessment over Expenditure.	Revenue Due for Previous Years Written Off.	Adjustments for Years prior to 1952-53. (A) Loss. (B) Gain.		Interest and Other Losses Prior to 30th June, 1953, Borne by State (Act No. 5017).	Loss since 30th June, 1953.	
	£	s. d.			£	s. d.					£				s. d.
1. Bacchus Marsh ..	(A) 853 17 6	(B) 4 636 2 0	{ (A) 4,636 2 0 (B) 2,723 17 5 }	{ (A) 8,213 16 11 (B) 10,545 0 4 }	{ (A) 11,998 11 5 (B) 275 0 0 }	..	12,273 11 5	(A) 4,059 14 6	..	..	(A) 3 12 1	21,170 8 3	18,394 10 8	..	
2. Boort ..	(A) 1,471 12 0	(B) 5,950 17 6	{ (A) 5,950 17 6 (B) 3,122 10 10 }	{ (A) 18,379 19 5 (B) 1,008 0 0 }	{ (A) 18,379 19 5 (B) 1,008 0 0 }	44 19 0	19,432 18 5	(A) 8,887 18 1	2 10 4	..	..	1,620 15 3	56,192 10 1	..	
3. Calivil ..	(A) 891 9 0	(B) 3,415 2 6	{ (A) 3,415 2 6 (B) 2,913 15 9 }	{ (A) 7,220 7 3 (B) 1,034 12 5 }	{ (A) 7,805 0 0 (B) 359 0 0 }	0 12 0	8,104 12 0	(A) 944 4 9	20 11 6	..	..	10,935 9 2	..	11,756 9 8	
4. Campaspe ..	(A) 656 19 0	(B) 377 13 5	{ (A) 2,913 15 9 (B) 377 13 5 }	{ (A) 6,530 2 2 (B) 178 0 0 }	{ (A) 6,530 2 2 (B) 178 0 0 }	..	6,708 2 2	(A) 5,673 9 9	..	..	..	3,695 6 10	3,309 18 3	..	
5. Central Gippsland ..	..	(B) 2,946 10 3	(B) 2,946 10 3	2,946 10 3	(A) 1,850 17 4	..	1,850 17 4	(B) 1,095 12 11	..	..	..	..	..	1,095 12 11	
6. Cohuna ..	{ (A) 3,779 17 6 (B) 4,716 11 7 }	{ (A) 24,656 0 0 (B) 7,258 17 11 }	{ (A) 24,656 0 0 (B) 7,258 17 11 }	{ (A) 40,411 7 0 (B) 8,251 1 10 }	{ (A) 48,190 10 11 (B) 2,320 0 0 }	45 8 11	50,555 19 10	(A) 10,144 12 10	30 0 0	..	..	15,145 0 10	1,489 5 11	..	
7. Deakin ..	{ (A) 3,455 2 1 (B) 3,443 12 0 }	{ (A) 2,849 0 0 (B) 1,603 7 9 }	{ (A) 2,849 0 0 (B) 1,603 7 9 }	{ (A) 8,251 1 10 (B) 3,768 10 9 }	{ (A) 12,152 2 10 (B) 719 0 0 }	..	12,871 2 10	(A) 4,620 1 0	37 3 5	..	..	2,255 4 9	5,359 19 6	..	
8. Dingee ..	{ (A) 194 12 0 (B) 278 12 0 }	{ (A) 2,334 13 6 (B) 960 8 3 }	{ (A) 2,334 13 6 (B) 960 8 3 }	{ (A) 3,768 10 9 (B) 1,231 6 9 }	{ (A) 5,212 12 0 (B) 107 0 0 }	..	5,319 12 0	(A) 1,551 1 3	..	..	..	4,766 11 5	..	395 9 4	
9. Katandra ..	{ (A) 497 3 0 (B) 812 1 0 }	{ (A) 3,849 6 6 (B) 1,231 6 9 }	{ (A) 3,849 6 6 (B) 1,231 6 9 }	{ (A) 6,420 7 3 (B) 1,231 6 9 }	{ (A) 8,401 0 3 (B) 160 0 0 }	8 13 0	8,569 13 3	(A) 2,149 6 0	..	..	..	27,858 0 1	..	846 17 2	
10. Kerang ..	{ (A) 1,506 19 3 (B) 1,109 2 0 }	{ (A) 10,703 10 9 (B) 5,556 8 9 }	{ (A) 10,703 10 9 (B) 5,556 8 9 }	{ (A) 18,965 15 0 (B) 2,311 0 0 }	{ (A) 23,620 15 1 (B) 1,083 0 0 }	..	24,703 15 1	(A) 5,738 0 1	14 14 1	..	..	3,766 6 2	13,657 12 3	..	
11. Koondrook ..	{ (A) 2,605 16 3 (B) 2,007 9 6 }	{ (A) 12,311 0 2 (B) 3,779 5 2 }	{ (A) 12,311 0 2 (B) 3,779 5 2 }	{ (A) 20,703 10 11 (B) 3,995 17 10 }	{ (A) 27,457 9 6 (B) 1,621 0 0 }	46 7 1	29,124 16 7	(A) 8,421 5 8	..	..	(B) 36 3 0	52,391 9 8	21,861 3 2	..	
12. Maffra-Sale ..	{ (A) 4,325 8 3 (B) 3,656 11 6 }	{ (A) 18,090 1 2 (B) 4,923 17 1 }	{ (A) 18,090 1 2 (B) 4,923 17 1 }	{ (A) 30,995 17 10 (B) 4,817 14 0 }	{ (A) 59,517 16 1 (B) 1,633 0 0 }	140 12 8	61,291 8 9	(A) 30,295 10 11	..	..	(B) 0 11 10	3,713 1 5	86,062 9 8	..	
13. Murray Valley ..	{ (A) 7,328 17 0 (B) 20,769 11 9 }	{ (A) 40,817 14 0 (B) 20,769 11 9 }	{ (A) 40,817 14 0 (B) 20,769 11 9 }	{ (A) 68,916 2 9 (B) 20,769 11 9 }	{ (A) 66,659 4 7 (B) 1,393 0 0 }	7,577 6 4	75,629 10 11	(A) 6,713 8 2	178 10 3	..	(B) 7 14 3	..	..	21,430 16 6	
14. Mystic Park ..	(A) 232 6 0	(B) 1,338 10 0	{ (A) 1,338 10 0 (B) 226 4 2 }	1,797 0 2	(A) 3,892 8 2	..	3,958 8 2	(A) 2,161 8 0	10 1 0	..	..	2,112 16 8	16,919 12 1	..	
15. North Shepparton ..	{ (A) 2,703 14 0 (B) 875 18 6 }	{ (A) 6,928 19 6 (B) 2,516 17 11 }	{ (A) 6,928 19 6 (B) 2,516 17 11 }	{ (A) 13,025 9 5 (B) 2,516 17 11 }	{ (A) 16,598 15 8 (B) 433 0 0 }	7 3 3	17,038 18 11	(A) 4,013 9 6	..	..	(B) 1 4 9	42,760 2 0	6,567 3 1	..	
16. Robinvale ..	(A) 866 12 8	(B) 18,903 15 9	{ (A) 18,903 15 9 (B) 2,516 17 11 }	19,770 8 5	(A) 35,300 0 4	277 7 0	41,637 7 4	(A) 21,866 18 11	418 2 3	..	(B) 640 17 6	..	71,089 6 11	..	
17. Rochester ..	{ (A) 5,136 4 9 (B) 2,611 11 4 }	{ (A) 23,732 0 0 (B) 12,907 8 1 }	{ (A) 23,732 0 0 (B) 12,907 8 1 }	{ (A) 49,388 4 2 (B) 12,907 8 1 }	{ (A) 69,194 15 0 (B) 1,484 0 0 }	..	70,678 15 0	(A) 21,290 10 10	109 7 9	..	(B) 584 1 10	35,162 16 6	4,704 3 3	..	
18. Rodney ..	{ (A) 8,705 19 6 (B) 2,551 14 0 }	{ (A) 30,450 0 0 (B) 17,980 7 11 }	{ (A) 30,450 0 0 (B) 17,980 7 11 }	{ (A) 59,488 1 5 (B) 17,980 7 11 }	{ (A) 66,485 14 11 (B) 6,314 0 0 }	73 18 9	82,873 13 8	(A) 23,385 12 3	6 10 0	..	(B) 3 3 8	86,159 15 7	50,172 6 9	..	
19. Shepparton ..	{ (A) 2,651 10 0 (B) 4,841 5 0 }	{ (A) 10,532 0 8 (B) 1,282 4 8 }	{ (A) 10,532 0 8 (B) 1,282 4 8 }	{ (A) 19,306 19 8 (B) 1,282 4 8 }	{ (A) 27,903 7 1 (B) 703 0 0 }	26 2 0	28,632 9 1	(A) 9,325 9 5	8 0 5	..	(B) 0 3 5	60,912 11 9	28,750 13 10	..	
20. South Shepparton ..	(A) 772 10 6	(B) 2,202 0 7	{ (A) 2,202 0 7 (B) 655 10 7 }	3,630 1 1	(A) 6,351 1 8	3 1 0	6,554 2 8	(A) 2,924 1 7	..	..	..	2,785 16 9	7,424 12 3	..	
21. Swan Hill ..	{ (A) 3,047 5 0 (B) 1,926 7 0 }	{ (A) 12,937 10 7 (B) 5,229 19 7 }	{ (A) 12,937 10 7 (B) 5,229 19 7 }	{ (A) 23,141 1 7 (B) 1,926 7 0 }	{ (A) 33,273 7 7 (B) 1,463 0 0 }	7 18 0	34,744 5 7	(A) 11,603 4 0	6 10 1	..	..	6,236 10 6	60,772 3 2	..	
22. Third Lake ..	(A) 123 16 6	(B) 1,256 15 10	{ (A) 1,256 15 10 (B) 252 15 10 }	1,633 2 4	(A) 3,008 4 10	..	3,120 4 10	(A) 1,487 2 6	..	..	..	2,439 2 2	5,151 11 11	..	
23. Tongala-Stanhope ..	{ (A) 3,402 8 0 (B) 5,427 18 0 }	{ (A) 24,021 10 0 (B) 7,998 4 11 }	{ (A) 24,021 10 0 (B) 7,998 4 11 }	{ (A) 40,850 0 11 (B) 7,998 4 11 }	{ (A) 61,069 0 5 (B) 1,191 0 0 }	113 12 0	62,373 12 5	(A) 21,523 11 6	138 8 6	..	(B) 29 17 5	73,622 18 2	48,180 3 6	..	



IRRIGATION AND WATER SUPPLY DISTRICTS—continued.

PROFIT AND LOSS ACCOUNT FOR FINANCIAL YEAR 1952-53—continued.

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

District.	Revenue Assessment.				Expenditure.				Profit and Loss.							
	(A) General Rate.	(B) Drainage Rate.	(A) Irrigation Charge.	(B) Sales and Miscellaneous.	Total Revenue Assessments.	(A) Operating Costs.	(B) Depreciation.	Amounts Written Off.	Total.	(A) Excess Expenditure over Assessment.	(B) Excess Assessment over Expenditure.	Revenue Due for Previous Years Written Off.	Adjustments to Revenue prior to 1952-53.	Interest and Other Losses Prior to 30th June, 1938, Borne by State (Act No. 5017).	Loss since 30th June, 1938.	Gain as at 30th June, 1953.
24. Tragowel Plains ..	{ (A) 2,932 12 0 } { (B) 272 8 0 }	{ (A) 16,387 7 0 } { (B) 6,640 13 0 }	{ (A) 1,737 15 6 } { (B) 1,016 2 2 }	{ (A) 6,924 19 0 } { (B) 2,329 11 1 }	26,233 0 0 12,008 7 9	{ (A) 32,433 8 8 } { (B) 1,975 0 0 }	{ (A) 17,409 0 9 } { (B) 508 0 0 }	134 5 6 ..	34,542 14 2 17,917 0 9	(A) 8,309 14 2 (A) 3,908 13 0	..	10 13 8 ..	..	42,840 6 8 15,475 10 3	45,921 4 8 17,618 17 3	.. ..
25. Werrilee ..	{ (A) 59,970 7 3 } { (B) 32,277 8 7 }	{ (A) 271,326 2 0 } { (B) 135,090 19 7 }			498,064 17 5	{ (A) 680,695 6 8 } { (B) 31,365 0 0 }	8,507 6 6	720,567 13 2	{ (A) 222,998 8 8 } { (B) 1,095 12 11 }	791 3 3	{ (A) 3 12 1 } { (B) 1,313 0 11 }			526,776 0 10	569,080 8 2	35,525 5 7
The districts set out hereunder are those whose works will not produce sufficient revenue to cover the management thereof and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By authority of Orders in Council dated 30th June, 1938, and 16th November, 1942, under Section 6, <i>Water Act</i> 1937, No. 4513.)																
26. Fish Point ..	{ (A) 189 13 0 } { (B) 338 3 0 }	{ (A) 922 5 0 } { (B) 16,153 7 10 }	{ (A) 1,386 19 1 } { (B) 1,453 19 2 }	{ (A) 2,601 3 0 } { (B) 1,094 0 0 }	2,647 3 0 26,256 5 11	0 8 7 62 18 6	..	2,647 3 0 26,256 5 11	(A) 1,260 3 11 (A) 7,585 10 9	..	..	..	..	2,479 7 4 30,297 7 11	10,777 7 5 40,489 16 1	.. ..
27. Nyab ..	{ (A) 725 5 2 } { (B) 5,586 16 6 }	{ (A) 132,512 15 6 } { (B) 10,100 17 0 }	{ (A) 162,482 4 5 } { (B) 7,896 12 6 }	{ (A) 208,291 15 2 } { (B) 14,507 0 0 }	162,482 4 5 7,896 12 6	62 18 6 ..	..	222,801 13 8 15,436 7 10	(A) 60,319 9 3 (A) 7,539 15 4	144 14 4 ..	(B) 17 10 5 ..	..	..	47,614 2 7 65,926 4 5	304,874 15 0 65,733 19 3	.. ..
28. Red Cliffs-Merbein ..	{ (A) 832 5 0 } { (B) 14,877 7 6 }	{ (A) 149,588 8 4 } { (B) 18,894 4 9 }			190,436 11 2	{ (A) 250,872 3 4 } { (B) 16,206 0 0 }	63 7 1	267,141 10 5	(A) 76,704 19 3	180 2 9	(B) 127 10 5	..	..	145,417 2 3	421,875 17 9	.. ..
29. Tresco ..	{ (A) 66,917 4 9 } { (B) 47,284 9 2 }	{ (A) 420,914 10 4 } { (B) 153,985 4 4 }			689,101 8 7	{ (A) 931,567 10 0 } { (B) 47,571 0 0 }	8,570 13 7	987,709 3 7	{ (A) 299,703 7 11 } { (B) 1,095 12 11 }	1,171 6 0	{ (A) 3 12 1 } { (B) 1,440 11 4 }	..	..	672,193 3 1	991,565 5 11	35,525 5 7
Totals ..	{ (A) 6,946 17 6 } { (B) 15,097 0 7 }	{ (A) 149,588 8 4 } { (B) 18,894 4 9 }			190,436 11 2	{ (A) 250,872 3 4 } { (B) 16,206 0 0 }	63 7 1	267,141 10 5	(A) 76,704 19 3	180 2 9	(B) 127 10 5	..	..	145,417 2 3	421,875 17 9	.. ..
GRAND TOTALS ..	{ (A) 66,917 4 9 } { (B) 47,284 9 2 }	{ (A) 420,914 10 4 } { (B) 153,985 4 4 }			689,101 8 7	{ (A) 931,567 10 0 } { (B) 47,571 0 0 }	8,570 13 7	987,709 3 7	{ (A) 299,703 7 11 } { (B) 1,095 12 11 }	1,171 6 0	{ (A) 3 12 1 } { (B) 1,440 11 4 }	..	..	672,193 3 1	991,565 5 11	35,525 5 7

The districts set out hereunder are those whose works will not produce sufficient revenue to cover the management thereof and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By authority of Orders in Council dated 30th June, 1938, and 16th November, 1942, under Section 6, *Water Act* 1937, No. 4513.)

URBAN DIVISIONS.

CASH ACCOUNT.

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, 1953; also of Interest charged at the rates of 3.212 per cent. on Capital Debits as at 30th June, 1943, and 3 per cent. on Capital Debits subsequent to 30th June, 1943, and of Redemption and Depreciation Charged for Financial Year 1952-53.

Division.	Receipts.			Expenditure.							Accumulated.					
	Receipts, Year Ended 30th June, 1953.	Total 1906 to 30th June, 1953.	Year Ended 30th June, 1953.							Excess Expenditure Over Receipts 1952-53.	Excess Receipts Over Expenditure 1952-53.	Surplus Credited to District Account at 30th June, 1953.	Deficiency Chargeable to District Account at 30th June, 1953.	Deficiency Chargeable to State Account at 30th June, 1953. (Inclusive of Column 10.)		
			Operating Costs.	Interest.	Depreciation.	Redemption.	Total.	Total 1906 to 30th June, 1953.								
1.	2.	3.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.
1. Bacchus Marsh	13 0 10	72,321 6 1	0 0 7	..	..	..	..	0 0 7	72,321 6 1	..	13 0 3	..	..	..	..	..
2. Cohuna	2,328 9 5	40,436 15 0	2,572 7 6	101 10 5	..	99 0 0	..	2,772 17 11	40,610 5 4	444 8 6	..	..	173 10 4	..	..	..
3. Lockington	495 14 4	8,614 0 5	299 4 10	3 16 10	..	61 0 0	1 3 3	365 4 11	7,980 9 5	..	130 9 5	633 11 0	..	..	..	..
4. Macorna	183 12 9	717 16 9	141 4 3	..	..	26 0 0	..	167 4 3	1,045 3 10	..	16 8 6	..	327 7 1	..	..	..
5. Red Cliffs	4,398 4 7	61,740 12 8	4,772 3 4	51 13 4	..	193 0 0	..	5,016 16 8	64,997 12 7	618, 12 1	..	..	3,256 19 11	..	..	..
6. Robinvale	904 1 3	2,430 16 8	536 5 9	..	..	161 0 0	..	697 5 9	2,619 16 9	..	206 15 6	..	189 0 1	..	..	..
7. Tallygaroopna	235 13 10	791 4 7	125 7 0	..	..	47 6 3	..	172 13 3	603 14 3	..	63 0 7	187 10 4	..	..	..	..
Totals ..	8,558 17 0	187,052 12 2	8,446 13 3	157 0 7	1 3 3	587 6 3	1 3 3	9,192 3 4	190,178 8 3	1,063 0 7	429 14 3	821 1 4	3,946 17 5	..	..	..
The Divisions set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these divisions has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By authority of Orders in Council, dated 30th July, 1938, and 18th December, 1944, under the provisions of Section 6, <i>Water Act</i> 1937, No. 4513.)																
8. Corop	43 19 0	1,170 4 10	23 13 6	..	..	6 0 0	..	29 13 6	1,282 0 5	..	14 5 6	..	..	..	111 15 7	7
9. Dingee	121 7 6	2,505 7 3	95 14 9	..	..	14 0 0	..	109 14 9	2,563 1 6	..	11 12 9	..	152 13 10	..	305 0 5	5
10. Heyfield	2,972 6 6	17,102 4 4	1,693 1 8	..	..	115 0 0	..	1,808 1 8	17,086 2 6	..	1,164 4 10	177 1 0	..	..	160 19 2	2
11. Letchville	979 8 7	11,602 17 9	871 4 7	..	..	45 0 0	..	916 4 7	12,114 11 2	..	63 4 0	..	..	..	511 13 5	5
12. Murrabit	116 17 9	1,743 18 2	238 3 8	..	..	33 0 0	..	271 3 8	3,346 14 5	154 5 11	..	..	30 16 2	..	1,572 0 1	1
13. Stanhope	337 7 11	6,863 18 2	351 11 1	..	..	35 0 0	..	386 11 1	6,461 10 5	49 3 2	..	402 7 9	..	..	..	..
Totals ..	4,571 7 3	40,088 10 6	3,273 9 3	..	..	248 0 0	..	3,521 9 3	43,254 0 5	204 9 1	1,253 7 1	579 8 9	183 10 0	..	2,661 8 8	8
Grand Totals	13,130 4 3	228,041 2 8	11,750 2 6	157 0 7	1 3 3	835 6 3	1 3 3	12,713 12 7	238,432 8 8	1,266 9 8	1,683 1 4	1,400 10 1	4,130 7 5	..	2,661 8 8	8

URBAN DIVISIONS.

PROFIT AND LOSS ACCOUNT FOR FINANCIAL YEAR 1952-53.

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

Division.	Expenditure.													Profit and Loss.				
	Revenue Assessment.	Operating Costs.	Interest.	Depreciation.	Redemption.	Amounts Written Off.	Total.	Excess— (Dr.) Expenditure, (Cr.) Assessment for Year.	Revenue Due for Previous Years Written Off.	Adjustments to Revenue for Years Prior to 1952-53. (A) Loss. (B) Gain.	Interest and Other Losses Prior to 30th June, 1938, Borne by State. (Act No. 5017.)	Loss since 30th June, 1938.	Gain as at 30th June, 1953.					
1. Bacchus Marsh	£ s. d. 0 0 7	£ s. d. 0 0 7	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. 0 0 7	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..	£ s. d. ..					
2. Cohuna ..	2,061 1 7	2,572 7 6	101 10 5	99 0 0	8 7 8	..	2,781 5 7	(Dr.) 720 4 0	0 13 3	..	..	..	29 2 0					
3. Lockington	500 5 0	299 4 10	3 16 10	61 0 0	0 7 9	..	364 9 5	(Cr.) 135 15 7	..	..	..	..	734 5 5					
4. Macorna ..	183 8 11	141 4 3	..	26 0 0	..	..	167 4 3	(Cr.) 16 4 8	..	..	..	327 7 1	..					
5. Red Cliffs	4,376 14 1	4,772 3 4	51 13 4	193 0 0	4 13 2	..	5,021 9 10	(Dr.) 644 15 9	84 15 1	(B) 4 16 3	..	2,732 12 9	..					
6. Robinvale	1,132 16 5	536 5 9	..	161 0 0	..	..	697 5 9	(Cr.) 435 10 8	..	(B) 2 9 0	..	..	325 7 3					
7. Tullygaroopna	228 6 0	125 7 0	..	47 6 3	..	..	172 13 3	(Cr.) 55 12 9	..	..	..	..	198 17 3					
Totals	8,482 12 7	8,446 13 3	157 0 7	587 6 3	13 8 7	..	9,204 8 8	(Dr.) 1,364 19 9 (Cr.) 643 3 8	85 8 4	(B) 7 5 3	..	3,059 19 10	1,287 11 11					
The Divisions set out hereunder are those whose works will not produce sufficient revenue to cover the expense of maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these divisions has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By authority of Orders in Council, dated 30th July, 1938, and 18th December, 1944, under the provisions of Section 6, <i>Water Act 1937</i> , No. 4513.)																		
8. Corop ..	50 12 5	23 13 6	..	6 0 0	..	1 9 2	31 2 8	(Cr.) 19 9 9	..	..	62 8 1	0 12 3	..					
9. Dingee ..	115 15 0	95 14 9	..	14 0 0	..	..	109 14 9	(Cr.) 6 0 3	..	..	93 10 6	364 3 9	..					
10. Heyfield ..	3,105 7 5	1,693 1 8	..	115 0 0	..	..	1,808 1 8	(Cr.) 1,297 5 9	21 19 5	..	160 19 2	..	680 4 6					
11. Letchville	986 3 5	871 4 7	..	45 0 0	..	..	916 4 7	(Cr.) 69 18 10	7 8 4	..	..	489 15 8	..					
12. Murrabit ..	145 7 4	238 3 8	..	33 0 0	..	..	271 3 8	(Dr.) 125 16 4	..	..	92 1 10	1,449 13 7	..					
13. Stanhope	340 7 5	351 11 1	..	35 0 0	..	..	386 11 1	(Dr.) 46 3 8	..	(B) 0 5 10	..	..	454 15 9					
Totals	4,743 13 0	3,273 9 3	..	248 0 0	..	1 9 2	3,522 18 5	(Dr.) 172 0 0 (Cr.) 1,392 14 7	29 7 9	(B) 0 5 10	408 19 7	2,304 5 3	1,115 0 3					
GRAND TOTALS	13,226 5 7	11,720 2 6	157 0 7	835 6 3	13 8 7	1 9 2	12,727 7 1	(Dr.) 1,536 19 9 (Cr.) 2,035 18 3	114 16 1	(B) 7 11 1	408 19 7	5,364 5 1	2,402 12 2					

WATERWORKS DISTRICTS.

CASH ACCOUNT.

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, 1953; also of Interest charged at the rates of 3·212 per cent. on Capital Debts, as at 30th June, 1943, and 3 per cent. on Capital Debts subsequent to 30th June, 1953, and of Redemption and Depreciation charged for Financial Year 1952-53. (State Works of Water Supply excluded.)

District.	Receipts.			Expenditure.										Accumulated—																
	Total 1906 to June, 1953.			Year ended 30th June, 1953.										Excess over Receipts 1952-53.	Surplus Credited to District Account at 30th June, 1953.	Deficiency Chargeable to District Account at 30th June, 1953.	Deficiency Chargeable to State Account at 30th June, 1953. (Inclusive of Column 10.)													
	£	s.	d.	Operating Costs.	Interest.	Depreciation.	Redemption.	Total.	Total 1906 to June, 1953.	£	s.	d.	£					s.	d.	£	s.	d.								
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.																	
1. Bellarine Peninsula ..	13,782	11	9	169,463	10	7	36,574	3	0	2,670	6	2	40,485	9	2	214,292	1	6	26,792	17	5	633	1	3	9,927	9	8			
2. East Loddon ..	1,314	19	7	7,835	0	9	1,062	2	2	..	..	..	1,673	2	2	7,202	5	8	358	2	7	..	..	..	..	..	..			
3. Loddon ..	1,177	9	10	7,842	10	0	1,795	8	4	..	..	..	1,799	8	4	10,679	10	6	621	18	6	..	..	..	..	..	..			
4. Mornington Peninsula ..	21,460	13	8	215,694	1	4	8,577	18	1	1,207	10	2	11,371	15	11	169,132	10	4	..	..	..	47,639	3	3	1,077	12	3			
5. Newstead ..	24	5	0	429	15	0	..	..	..	..	..	..	..	..	..	101	10	0	..	..	..	528	5	0	..	..	..			
6. Normanville ..	5,046	4	3	42,530	17	6	9,719	12	1	2,874	8	2	9,959	12	1	51,366	1	5	4,943	7	10	..	..	..	..	..	..			
7. Olway ..	13,305	9	7	134,832	18	8	7,953	15	0	2,014	0	0	13,074	6	8	135,659	7	8	431	2	11	..	..	8,835	3	11	..			
8. Werribee ..	626	19	0	21,154	17	8	586	14	4	23	0	0	609	14	4	22,817	16	0	17	4	8	..	..	826	9	0	..			
9. Western Wimmera ..	24,560	18	10	664,862	1	10	38,174	11	11	..	..	..	39,008	11	11	748,456	6	11	14,447	13	1	558	12	6	70,166	0	0	2,221		
10. West Loddon ..	1,926	13	4	13,535	11	3	3,075	5	1	12	0	0	3,687	5	1	17,279	14	2	1,700	11	9	..	..	3,744	2	11	13,428			
11. Wimmera United ..	22,245	11	9	698,907	6	7	28,325	13	11	418	0	0	28,743	13	11	698,965	18	10	6,498	2	2	..	..	58	12	3	..			
12. Wycheville ..	5,620	5	10	21,857	5	4	7,553	8	2	..	..	..	7,622	8	2	45,536	15	7	2,002	2	4	..	..	23,679	10	3	..			
Totals ..	111,292	2	5	1,998,946	8	6	144,598	12	1	6,752	4	6	158,065	7	9	2,121,489	18	7	57,334	15	8	49,159	1	10	145,047	14	1	26,654		
The districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of maintenance and management thereof and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure chargeable to the State Account." (By authority of Orders in Council dated 30th July, 1938, 21st October, 1941, and 25th November, 1952, under the provisions of Section 6, Water Act 1937, No. 4513.)																			10,561	10	4	10,561	10	4	145,047	14	1	26,654	17	10
13. Birchip ..	6,220	18	4	188,621	12	7	9,911	14	11	..	..	..	9,970	14	11	226,790	14	5	3,749	16	7	..	..	5,077	15	6	43,091			
14. Hindmarsh ..	1,218	19	9	30,046	3	5	1,523	7	5	..	..	..	1,677	7	5	31,849	6	5	458	7	8	..	..	1,803	3	0	..			
15. Karkaroc ..	20,033	3	3	515,593	16	1	30,540	13	3	..	..	..	36,606	13	5	678,909	17	3	16,573	10	2	..	..	13,179	4	6	150,136			
16. Kerang — North-West Lakes ..	284	11	0	7,931	2	8	845	3	1	..	..	..	849	3	1	9,982	3	8	..	..	..	..	..	83	3	9	2,767			
17. Long Lake ..	13,736	2	7	385,711	7	4	32,882	16	1	246	0	0	33,128	16	1	548,217	14	5	19,392	13	6	..	..	29,280	10	10	133,246			
18. Millewa ..	13,421	9	1	196,822	7	7	10,045	8	2	4,731	0	0	24,769	8	2	1,060,504	16	5	61,377	18	7	..	..	20,984	6	0	852,698			
19. Ouyen ..	10,322	4	11	153,101	12	7	32,647	12	4	..	..	..	32,318	16	7	559,800	8	10	21,506	14	8	..	..	76,353	10	6	336,135			
20. Sea Lake ..	12,409	4	4	350,290	16	0	23,809	12	5	..	..	..	23,808	12	4	451,540	19	9	11,309	8	3	..	..	8,236	10	5	93,213			
21. Tynnynder ..	10,355	3	4	213,555	9	4	34,437	4	5	148	0	0	37,885	12	5	478,125	1	1	24,370	8	1	..	..	22,408	0	1	242,581			
22. Tynnynder North ..	2,072	15	0	89,442	4	7	15,985	18	0	172	0	0	13,257	18	0	275,523	11	2	..	..	..	..	..	10,336	17	0	173,711			
23. Tyrell West ..	8,497	15	10	299,080	19	7	50,217	16	8	..	..	..	50,327	16	8	638,924	13	7	41,440	10	2	..	..	15,895	16	7	213,137			
24. Upper Western Wimmera ..	7,567	17	3	177,652	10	3	19,593	4	2	..	..	..	19,175	8	7	312,134	15	6	14,197	7	3	..	..	10,013	19	9	213,304			
25. Upper Wimmera United ..	9,692	15	5	281,325	16	3	13,225	6	5	..	..	..	13,509	16	5	300,384	5	7	1,713	3	4	..	..	4,359	16	0	6,396			
26. Waheup West ..	3,414	10	2	71,981	11	4	4,167	10	8	..	..	..	4,442	10	8	80,609	10	1	5,816	10	9	..	..	8,627	18	4	14,700			
27. Wycheville ..	11,356	13	7	309,783	6	4	14,213	15	8	..	..	..	14,317	15	8	377,168	10	0	2,961	2	1	..	..	..	..	..	8,627			
Totals ..	135,420	19	0	3,358,735	1	5	365,484	14	3	6,671	0	0	372,155	14	3	6,224,435	8	10	236,734	15	3	..	..	..	4,504	1	10	62,881		
GRAND TOTALS ..	246,713	1	5	5,357,681	9	11	510,083	6	4	12,759	0	0	530,221	2	0	8,345,925	7	5	294,069	10	11	10,561	10	4	365,481	4	10	2,671,921		
The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure chargeable to the State Account." (By authority of Orders in Council dated 30th July, 1938, 21st October, 1941, and 25th November, 1952, under the provisions of Section 6, Water Act 1937, No. 4513.)																			49,159	1	10	49,159	1	10	2,671,921	14	6			

WATERWORKS DISTRICTS.

PROFIT AND LOSS ACCOUNT FOR FINANCIAL YEAR 1952-53.

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

District.	Revenue Assessment.										Expenditure.						Profit and Loss.						Gain as at 30th June, 1953.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	Revenue Assessment.					Operating Costs.					Interest.		Depreciation.		Redemption.		Amounts Written Off.				Total.			Excess—(Dr.) Expenditure, (Cr.) Assessment for Year.		Revenue Due for Previous Years Written Off.		Adjustments to Revenue prior to 1952-53.		Interest and Other Losses 1938-1938, Borne by State. (Act No. 5017.)		Loss since 30th June, 1938.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£		s.	d.	£	s.	d.	£	s.	d.	£	s.	d.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
1. Bellarine Peninsula ..	14,159	11	5	36,574	3	0	2,670	6	2	1,241	0	0	212	13	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

URBAN DISTRICTS.

CASH ACCOUNT.

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, 1953; also of Interest charged at the rates of 3·212 per cent. on Capital Debts as at 30th June, 1943, and 3 per cent. on Capital Debts subsequent to 30th June, 1943, and of Redemption and Depreciation charged for Financial Year 1952-53. (State Works of Water Supply excluded.)

District.	Receipts.				Expenditure.							Accumulated.			
	Total 1906 to 30th June, 1953.				Year ended 30th June, 1953.							Excess Receipts over Expenditure, 1952-53.	Surplus Credited to District Account at 30th June, 1953.	Deficiency Chargeable to District Account at 30th June, 1953.	
	2.	3.	Operating Costs.	Interest.	Depreciation.	Redemption.	Total.	Total 1906 to 30th June, 1953.							
									£	s.	d.			£	s.
1. Almsford ..	487 10 2	2 874 12 8	414 18 5	25 15 6	23 0 0	4 3 10	467 17 9	2 657 13 4	19 18 5	216 19 4	..	..	..	..	..
2. Antwerp Heads-Ocean Grove ..	81 11 9	1 713 12 1	65 0 6	25 15 6	2 0 0	5 6 9	80 12 10	43 009 12 10	0 18 11	46 2 6	369 9 0	175 1 10	796 15 7	349 18 8	216 18 8
3. Berwick ..	4 332 1 0	43 866 0 5	3 881 17 2	253 12 10	566 0 0	..	4 701 10 0	10 435 2 0	..	..	..	..	..	..	..
4. Birratorra ..	403 15 4	9 868 6 8	562 15 1	0 2 1	16 0 0	..	5 78 17 2	26 830 18 8	..	..	..	..	..	..	..
5. Birratorra ..	1 940 2 6	20 234 17 11	1 610 14 4	Dr. 436 3 6	265 0 0	64 19 6	1 504 10 4	26 830 18 8	..	..	..	..	..	..	..
6. Birratorra ..	3 336 11 8	3 336 11 8	707 11 4	..	100 0 0	..	876 11 4	8 214 1 9	..	..	..	..	..	..	..
7. Birratorra ..	818 19 1	8 105 14 6	404 2 0	10 12 11	31 0 0	..	445 14 1	80 055 5 4	..	..	..	..	..	..	..
8. Camperdown ..	2 521 9 5	79 083 13 0	5 060 0 9	1 736 3 2	687 0 0	37 18 6	7 521 9 5	483 610 4	2 239 16 2	21 903 8 11	..	..	..	..	..
9. Chelsea-Frankston ..	40 077 11 9	406 327 0 0	31 504 13 2	1 474 8 0	3 870 0 0	898 3 11	2 376 17 5	23 717 13 2	149 5 3	769 15 1	..	..	..	..	..
10. Colton ..	2 227 11 1	22 047 18 1	1 654 19 6	4 06 16 5	169 0 0	..	2 376 17 5	23 717 13 2	56 7 11	424 19 8	..	..	..	..	..
11. Cranbourne ..	770 11 1	16 372 1 2	651 19 6	18 17 1	122 0 0	..	745 17 5	13 616 1 6	..	..	..	..	..	..	..
12. Culcairn ..	370 12 0	10 812 1 10	337 19 0	7 19 11	0 0	..	496 19 16	393 266 6 2	14 859 9 9	56 469 8 7	..	..	..	..	..
13. Dandenong-Springvale ..	49 369 12 3	446 373 16 2	26 253 17 0	4 184 3 7	3 647 0 0	416 6 2	34 501 7 6	103 405 0 2	7 172 1 8	31 080 3 1	..	..	..	..	..
14. Dandenong ..	3 125 2 0	48 683 2 2	2 310 4 5	3 37 17 11	135 0 0	139 18 9	2 933 1 0	103 405 0 2	7 926 18 6	..	..	..	..	..	..
15. Dandenong-Portsea ..	10 003 12 3	140 533 10 10	13 823 14 4	Dr. 4 238 3 10	2 076 0 0	362 5 3	1 614 4 9	102 455 16 0	..	..	..	..	..	..	..
16. Leppitt ..	1 102 12 10	35 510 13 3	1 893 12 6	131 12 3	39 0 0	23 14 9	1 614 4 9	93 882 2 2	421 11 11	..	..	..	..	..	..
17. Maroo ..	1 416 7 0	17 881 12 2	218 14 8	2 12 16 7	154 0 0	..	962 15 3	1 830 18 7	453 11 8	371 11 11	..	..	..	..	..
18. Maroo ..	3 262 11 4	53 257 5 5	3 753 16 2	129 9 1	33 0 0	..	324 16 3	55 067 9 7	..	..	..	..	..	..	..
19. Murrumbidgee ..	1 660 16 3	33 149 0 0	1 969 7 2	198 5 2	137 0 0	64 13 0	4 019 15 3	33 176 12 0	153 10 8	2 109 17 7	..	..	..	..	..
20. Narracan ..	9 122 13 2	148 820 16 10	6 813 3 0	1 688 3 5	775 0 0	..	1 507 5 5	140 236 13 1	..	..	..	..	..	..	..
21. Northampton ..	2 870 14 1	30 832 4 0	1 412 8 3	1 230 7 0	1 250 0 0	602 13 2	9 725 6 5	21 190 9 7	358 5 4	358 5 4	..	..	..	..	..
22. Northampton ..	2 870 14 1	30 832 4 0	1 412 8 3	1 230 7 0	1 250 0 0	602 13 2	9 725 6 5	21 190 9 7	358 5 4	358 5 4	..	..	..	..	..
23. Northampton ..	2 870 14 1	30 832 4 0	1 412 8 3	1 230 7 0	1 250 0 0	602 13 2	9 725 6 5	21 190 9 7	358 5 4	358 5 4	..	..	..	..	..
24. Northampton ..	2 870 14 1	30 832 4 0	1 412 8 3	1 230 7 0	1 250 0 0	602 13 2	9 725 6 5	21 190 9 7	358 5 4	358 5 4	..	..	..	..	..
25. Northampton ..	2 870 14 1	30 832 4 0	1 412 8 3	1 230 7 0	1 250 0 0	602 13 2	9 725 6 5	21 190 9 7	358 5 4	358 5 4	..	..	..	..	..
26. Northampton ..	2 870 14 1	30 832 4 0	1 412 8 3	1 230 7 0	1 250 0 0	602 13 2	9 725 6 5	21 190 9 7	358 5 4	358 5 4	..	..	..	..	..
27. Northampton ..	2 870 14 1	30 832 4 0	1 412 8 3	1 230 7 0	1 250 0 0	602 13 2	9 725 6 5	21 190 9 7	358 5 4	358 5 4	..	..	..	..	..
28. Northampton ..	2 870 14 1	30 832 4 0	1 412 8 3	1 230 7 0	1 250 0 0	602 13 2	9 725 6 5	21 190 9 7	358 5 4	358 5 4	..	..	..	..	..
29. Northampton ..	2 870 14 1	30 832 4 0	1 412 8 3	1 230 7 0	1 250 0 0	602 13 2	9 725 6 5	21 190 9 7	358 5 4	358 5 4	..	..	..	..	..
30. Northampton ..	2 870 14 1	30 832 4 0	1 412 8 3	1 230 7 0	1 250 0 0	602 13 2	9 725 6 5	21 190 9 7	358 5 4	358 5 4	..	..	..	..	..
31. Northampton ..	2 870 14 1	30 832 4 0	1 412 8 3	1 230 7 0	1 250 0 0	602 13 2	9 725 6 5	21 190 9 7	358 5 4	358 5 4	..	..	..	..	..
32. Northampton ..	2 870 14 1	30 832 4 0	1 412 8 3	1 230 7 0	1 250 0 0	602 13 2	9 725 6 5	21 190 9 7	358 5 4	358 5 4	..	..	..	..	..
Totals ..	175 076 11 10	2 070 309 2 3	121 893 4 7	9 283 19 8	16 050 0 0	2 397 3 8	149 624 7 11	1 957 512 5 6	28 623 9 5	142 822 1 8	15 827 19 1	14 197 5 10	..	..	..

The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By authority of Orders in Council, dated 30th July, 1938, 9th December, 1940, 18th December, 1944, 23rd October, 1946, and 24th April, 1946, under the provisions of Section 6, *Water Act 1937*, No. 4513.)

	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937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The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to "Revenue Expenditure Chargeable to the State Account". (By Authority of Orders in Council dated 30th June, 1938, 9th December, 1940, 23rd October, 1945, and 24th April, 1946, respectively under the provisions of Section 6, *Water Act* 1937, No. 4513.)

33. Anglessea	1,353	5	0	1,685	15	11	0	0	17	8	102	0	0	0	1	6	1,788	15	1	(Dr.)	435	10	1	1,638	15	9	1,465	4	10	..				
34. Beulah	751	11	3	926	1	1	..	..	..	..	23	0	..	..	..	..	949	2	8	(Dr.)	197	11	5	96	18	2	390	11	4	..				
35. Birchip	1,961	7	8	1,891	15	6	..	..	..	..	84	0	..	..	..	..	1,975	15	6	(Dr.)	14	7	10	873	6	5	3,090	8	4	..				
36. Bittern	151	0	9	233	18	5	..	..	0	4	43	0	..	..	..	..	277	8	0	(Dr.)	126	8	0	0	14	9	439	9	10	..				
37. Bunyip	784	6	4	465	12	4	..	..	0	1	111	0	..	..	..	..	577	6	7	(Dr.)	206	19	9	474	1	9	..	..	..	2,252	7	8		
38. Carwarp	68	6	6	38	5	3	..	..	..	..	6	0	..	..	..	..	44	5	3	(Dr.)	24	1	3	..	..	..	..	..	..	288	19	8		
39. Chillingollah	166	2	8	136	5	6	..	..	..	..	8	0	..	..	..	..	144	5	3	(Dr.)	21	17	5	..	..	..	..	..	..	..	..	..		
40. Chinkapook	161	1	3	153	5	6	..	..	73	6	8	0	..	..	..	..	161	5	6	(Dr.)	0	4	3	..	..	..	..	..	..	..	..	..		
41. Crab Point	774	18	5	1,037	15	10	..	..	0	3	139	0	..	..	..	..	1,276	2	5	(Dr.)	501	4	0	..	..	..	..	..	..	..	..	..		
42. Doon	38	12	6	20	7	3	..	..	0	2	11	0	..	..	..	..	31	18	5	(Dr.)	6	14	1	..	..	..	..	..	..	..	..	..		
43. Drysdale	905	0	9	1,043	16	6	..	..	1	11	175	0	..	..	..	..	1,221	2	3	(Dr.)	316	1	6	..	..	..	..	..	..	..	..	..		
44. Garfield	646	6	2	322	8	5	..	..	0	1	45	0	..	..	..	..	368	1	5	(Dr.)	278	4	9	..	..	..	..	..	..	..	..	..		
45. Hastings	745	0	8	839	3	5	..	..	0	1	183	0	..	..	..	..	1,022	7	2	(Dr.)	277	6	6	..	..	..	..	..	..	..	..	..		
46. Hopetoun	1,432	8	3	1,714	7	4	..	..	0	1	61	0	..	..	..	..	1,776	2	9	(Dr.)	343	14	6	..	..	..	..	..	..	..	..	..		
47. Jung Jung	281	10	3	643	19	7	..	..	0	1	45	0	..	..	..	..	689	0	7	(Dr.)	407	10	4	..	..	..	..	..	..	..	..	..		
48. Koondrook	1,044	18	8	1,140	19	6	..	..	0	1	64	0	..	..	..	..	1,204	19	6	(Dr.)	160	0	10	..	..	..	..	..	..	..	..	..		
49. Lake Boga	805	1	7	893	1	1	..	..	2	17	68	0	..	..	..	..	964	3	2	(Dr.)	159	1	7	..	..	..	..	..	..	..	..	..		
50. Lalbert	400	10	2	714	3	3	..	..	0	9	92	0	..	..	..	..	759	9	2	(Dr.)	358	13	3	..	..	..	..	..	..	..	..	..		
51. Lascelles	249	8	7	334	10	3	..	..	0	1	53	0	..	..	..	..	952	10	7	(Dr.)	175	12	0	..	..	..	..	..	..	..	..	..		
52. Manangatang	776	18	7	862	13	5	..	..	0	2	133	0	..	..	..	..	281	13	3	(Dr.)	145	9	4	..	..	..	..	..	..	..	..	..		
53. Merinur	351	8	5	343	13	7	..	..	0	7	39	0	..	..	..	..	382	13	7	(Dr.)	31	5	2	..	..	..	..	..	..	..	..	..		
54. Midiamo	146	11	6	135	6	11	..	..	0	11	56	0	..	..	..	..	484	8	10	(Dr.)	2	2	8	..	..	..	..	..	..	..	..	..		
55. Nandaly	981	0	9	2,352	4	0	..	..	56	13	56	0	..	..	..	..	2,468	7	6	(Dr.)	1,488	7	6	..	..	..	..	..	..	..	..	..		
56. Newstead	180	13	10	203	17	9	..	..	9	0	10	0	..	..	..	..	427	11	2	(Dr.)	3	5	11	..	..	..	..	..	..	..	..	..		
57. Nullawil	424	5	3	396	11	2	..	..	0	5	31	0	..	..	..	..	992	3	10	(Dr.)	136	16	11	..	..	..	..	..	..	..	..	..		
58. Nyah	1,129	0	9	876	3	10	..	..	..	..	116	0	..	..	..	..	3,226	14	7	(Dr.)	384	14	4	..	..	..	..	..	..	..	..	..		
59. Nyah West	3,911	8	11	3,413	11	0	..	..	1	19	0	0	..	..	..	..	419	14	11	(Dr.)	108	3	4	..	..	..	..	..	..	..	..	..		
60. Ouyen	311	11	7	402	13	11	..	..	0	1	17	0	..	..	..	..	749	3	0	(Dr.)	369	9	5	..	..	..	..	..	..	..	..	..		
61. Patchewollock	379	13	7	697	3	0	..	..	2	6	52	0	..	..	..	..	2,022	0	6	(Dr.)	665	12	0	..	..	..	..	..	..	..	..	..		
62. Pianigil	1,356	8	6	1,709	10	1	..	..	0	11	310	0	..	..	..	..	736	12	0	(Dr.)	37	19	6	..	..	..	..	..	..	..	..	..		
63. Portarlington	698	12	6	693	10	0	..	..	49	4	43	0	..	..	..	..	1,785	1	3	(Dr.)	528	16	10	..	..	..	..	..	..	..	..	..		
64. Quambatook	1,256	4	5	1,656	14	4	..	..	0	2	75	0	..	..	..	..	457	3	9	(Dr.)	290	2	2	..	..	..	..	..	..	..	..	..		
65. Sea Lake	167	1	7	438	3	3	..	..	0	6	19	0	..	..	..	..	1,433	13	6	(Dr.)	2	9	3	..	..	..	..	..	..	..	..	..		
66. Speed	141	4	7	126	2	3	..	..	0	1	17	0	..	..	..	..	83	10	1	(Dr.)	10	9	3	..	..	..	..	..	..	..	..	..		
67. Tempy	2,922	17	11	3,004	0	0	..	..	4	5	129	0	..	..	..	..	3,137	13	6	(Dr.)	214	15	7	..	..	..	..	..	..	..	..	..		
68. Torquay	636	12	11	597	1	1	..	..	0	5	36	0	..	..	..	..	634	2	6	(Dr.)	2	10	5	..	..	..	..	..	..	..	..	..		
69. Ultima	93	19	4	65	10	1	..	..	0	10	18	0	..	..	..	..	83	10	1	(Dr.)	10	9	3	..	..	..	..	..	..	..	..	..		
70. Waitchie	290	4	10	349	8	9	..	..	0	14	42	0	..	..	..	..	363	4	5	(Dr.)	72	19	7	..	..	..	..	..	..	..	..	..		
71. Walpeup	398	11	3	652	1	5	..	..	0	1	42	0	..	..	..	..	694	2	5	(Dr.)	295	11	2	..	..	..	..	..	..	..	..	..		
72. Werrimull	7,072	19	6	6,399	7	9	..	..	289	14	3	0	..	..	..	..	7,190	15	1	(Dr.)	117	15	7	..	..	..	..	..	..	..	..	..		
73. Wondraggi	803	15	6	904	10	11	..	..	0	9	65	0	..	..	..	..	970	1	1	(Dr.)	166	5	7	..	..	..	..	..	..	..	..	..		
74. Woomelang	407	0	3	329	14	2	..	..	18	13	143	0	..	..	..	..	365	18	1	(Dr.)	41	2	2	..	..	..	..	..	..	..	..	..		
75. Woodmen	1,665	14	1	2,156	2	5	..	..	0	2	143	0	..	..	..	..	2,299	2	5	(Dr.)	633	8	4	..	..	..	..	..	..	..	..	..		
76. Wycheeproof	126	0	1	147	11	8	..	..	2	3	18	0	..	..	..	..	165	13	11	(Dr.)	39	13	10	..	..	..	..	..	..	..	..	..		
77. Yaapect	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	(Dr.)	..	..	..	..	..	..	..	..	..	..	..	..		
Totals	39,487	1	4	43,417	10	1	..	572	1	10	3,168	0	0	47	0	9	1	11	0	47,206	3	8	..	273	14	3	46,646	14	4	8,446	12	8		
GRAND TOTALS	216,890	17	10	165,310	14	8	..	18,785	1	8	19,218	0	0	1,520	0	7	21	0	0	204,854	16	11	..	778	15	6	26,603	15	7	59,270	8	11		
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	182,230	9	1

\* Includes adjustment of interest charged on Capital 1951-52.

FLOOD PROTECTION DISTRICTS.

CASH ACCOUNT.

STATEMENT of Moneys received and disbursed from 1st July, 1920, to 30th June, 1953, also of Interest and Depreciation charged for Financial Year 1952-53.

District.	Receipts.		Expenditure.					Excess Expenditure over Receipts 1952-53.	Excess Receipts over Expenditure 1952-53.	Accumulated.		
	Receipts Year Ended 30th June, 1953.	Total 1920 to 30th June, 1953.	Year Ended 30th June, 1953.			Total.  Total.	Surplus Credited to District Account, at 30th June, 1953.			Deficiency Chargeable to District Account at 30th June, 1953.	Deficiency Chargeable to State Account at 30th June, 1953.	
			Operating Costs.	Interest.	Depreciation.							
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	
1. Cardinia ..	5,604 2 3	76,656 18 9	9,616 1 9	..	19 0 0	9,635 1 9	97,032 19 1	4,030 19 6	..	..	17,102 1 2	3,303 19 2
2. Kanyapella ..	151 13 8	7,070 15 7	93 7 10	..	..	93 7 10	5,163 14 11	..	58 5 10	1,906 10 8	..	..
3. Loch Garry ..	359 19 4	22,137 16 8	568 1 6	..	..	568 1 6	19,055 5 1	208 2 2	..	3,082 11 7	..	..
4. Lower Koo-wee-rup ..	10,806 9 11	149,297 12 11	18,887 12 4	..	66 0 0	18,953 12 4	179,828 17 1	8,057 2 5	..	..	22,582 2 6	7,949 1 8
Totals ..	17,012 5 2	255,162 13 11	29,165 3 5	..	85 0 0	29,250 3 5	301,110 16 2	12,296 4 1	58 5 10	4,989 2 3	39,684 3 8	11,253 0 10

PROFIT AND LOSS ACCOUNT FOR FINANCIAL YEAR 1952-53.  
 STATEMENT of Revenue Assessment (inclusive of Rate, Charge, Interest and Miscellaneous) and Expenditure, Interest and Depreciation charged, and Amounts Written Off.

District.	Revenue Assessment.	Expenditure.					Profit and Loss.						
		Operating Costs.	Interest.	Depreciation.	Amounts Written Off.	Total	Excess Expenditure over Assessment.	Excess Assessment over Expenditure.	Revenue Due for Previous Years Written Off.	Adjustments of Revenue for Years Prior to 1952-53. (A) Loss. (B) Gain.	Interest and Other Losses Prior to 30th June 1938, Borne by State. (Act No. 5017.)	Loss since 30th June, 1938.	Gain as at 30th June, 1952-53.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
1. Cardinia ..	5,446 8 11	9,991 1 9*	..	19 0 0	..	10,010 1 9	4,563 12 10	..	1 0 4	..	3,303 19 2	7,555 12 2	..
2. Kanyapella ..	119 10 3	93 7 10	..	..	..	93 7 10	..	26 2 5	..	..	..	..	1,948 10 10
3. Loch Garry ..	347 12 9	568 1 6	..	..	0 2 8	568 4 2	220 11 5	..	..	..	..	..	3,165 4 4
4. Lower Koo-wee-rup ..	11,013 12 6	18,887 12 4	..	66 0 0	11 10 0	18,965 2 4	7,951 9 10	..	15 13 1	..	7,949 1 8	21,639 15 4	..
Totals ..	16,927 4 5	29,540 3 5*	..	85 0 0	11 12 8	29,636 16 1	12,735 14 1	26 2 5	16 13 5	..	11,253 0 10	29,195 7 6	5,113 15 2

\* Includes Annual Contribution to Capitalized Maintenance on Four Bridges, £375.—Cardinia.

DRAINAGE DISTRICT.

CASH ACCOUNT.

STATEMENT of Moneys received and disbursed from 1st July, 1937, to 30th June, 1953; also of Depreciation charged for Financial Year 1952-53.

District.	Receipts.		Expenditure				Accumulated.			
	2.	Total 1937, to 30th June, 1953.	Year Ended 30th June, 1953.		Total 1937, to 30th June, 1953.	8.	9.	10.	11.	12.
			Operating Costs.	Depreciation.						
1. Carrum	£ s. d. 6,322 12 6	£ s. d. 42,021 16 3	£ s. d. 14,153 16 0	£ s. d. 26 0 0	£ s. d. 14,179 16 0	£ s. d. 7,857 3 6	£ s. d. ..	£ s. d. ..	£ s. d. 8,306 7 10	£ s. d. ..
Total	£ s. d. 6,322 12 6	£ s. d. 42,021 16 3	£ s. d. 14,153 16 0	£ s. d. 26 0 0	£ s. d. 14,179 16 0	£ s. d. 7,857 3 6	£ s. d. ..	£ s. d. ..	£ s. d. 8,306 7 10	£ s. d. ..

PROFIT AND LOSS ACCOUNT FOR FINANCIAL YEAR 1952-53.  
STATEMENT of Revenue Assessment (inclusive of Rate, Interest, and Miscellaneous) and of Expenditure, Depreciation Charged and Amounts Written Off.

District.	Expenditure.						Profit and Loss.				
	Revenue Assessment.	Operating Costs.	Depreciation.	Amounts Written Off.	Total.	Excess Expenditure over Assessment.	Excess Assessment over Expenditure.	Revenue Due for Previous Years Written Off.	Adjustments to Revenue for Years Prior to 1952-53. (A) Loss. (B) Gain.	Interest and Other Losses Prior to 30th June 1938, Borne by State. (Act No. 5017.)	Gain as at 30th June, 1953.
1. Carrum	£ s. d. 6,534 5 8	£ s. d. 14,153 16 0	£ s. d. 26 0 0	£ s. d. ..	£ s. d. 14,179 16 0	£ s. d. 7,645 10 4	£ s. d. ..	£ s. d. 0 6 4	£ s. d. ..	£ s. d. ..	£ s. d. 7,067 0 11
Total	£ s. d. 6,534 5 8	£ s. d. 14,153 16 0	£ s. d. 26 0 0	£ s. d. ..	£ s. d. 14,179 16 0	£ s. d. 7,645 10 4	£ s. d. ..	£ s. d. 0 6 4	£ s. d. ..	£ s. d. ..	£ s. d. 7,067 0 11

SUMMARY OF CASH ACCOUNTS, 1952-53.

Works.	Receipts.		Expenditure.						Total 1906 to 30th June, 1953.	(D) Excess Expenditure over Receipts, 1952-53. (S) Excess Receipts over Expenditure.	Accumulated Surplus or Deficiency at 30th June, 1953.		(D) Chargeable ; or (S) Credited to District Account.	(Chargeable to State Account Inclusive of Column 10).	
	Year Ended 30th June, 1953.		Year Ended 30th June, 1953.								Total.	11.			12.
	£	s. d.	£	s. d.	£	s. d.	£	s. d.							
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.				
	£	s. d.	£	s. d.	£	s. d.	£	s. d.	(D) 228 19 10 (S) 19,769 12 7 (D) 40,008 14 8	(D) 47,135 9 2 (S) 14,912 7 7 (S) 749 8 5	1,043,336 2 8				
Central Plant Workshops, Bendigo	52,379	8 8	30,785	8 8	1,270	0 0	32,838	15 11	{(D) 228 19 10 (S) 19,769 12 7}	(D) 47,135 9 2	..				
Colliery System .. ..	99,820	15 4	122,151	18 5	8,260	0 0	130,820	10 0	(D) 40,008 14 8	{(D) 14,912 7 7 (S) 749 8 5}	1,043,336 2 8				
Irrigation Districts -															
Pumping .. ..	209,322	10 2	283,571	0 8	22,220	0 0	305,791	0 8	(D) 96,468 10 6	(D) 130,585 19 11	506,028 1 6				
Gravitation .. ..	479,311	2 7	647,996	9 4	25,351	0 0	673,347	9 4	{(D) 195,140 11 5 (S) 1,104 4 8}	{(D) 570,946 16 8 (S) 19,060 6 10}	540,225 1 2				
Irrigation Urban Divisions ..	13,130	4 3	11,720	2 6	835	6 3	12,713	12 7	{(D) 1,266 9 8 (S) 1,683 1 4}	{(D) 4,130 7 5 (S) 1,400 10 1}	2,661 8 8				
Waterworks Districts ..	246,713	1 5	510,083	6 4	12,759	0 0	530,221	2 0	{(D) 294,069 10 11 (S) 10,561 10 4}	{(D) 365,481 4 10 (S) 40,159 1 10}	2,671,921 14 6				
Waterworks Urban Districts ..	214,782	7 4	165,310	14 8	19,218	0 0	196,630	6 0	{(D) 11,689 12 5 (S) 29,841 13 9}	{(D) 20,866 9 5 (S) 148,092 2 10}	79,451 18 2				
Flood Protection Districts ..	17,012	5 2	255,162	13 11	85	0 0	29,250	3 5	{(D) 12,296 4 1 (S) 58 5 10}	{(D) 39,684 3 8 (S) 4,989 2 3}	11,253 0 16				
Carriam Drainage District ..	6,322	12 6	14,153	16 0	26	0 0	14,179	16 0	(D) 7,867 3 6	(D) 8,306 7 10	..				
Totals .. ..	1,338,794	7 5	1,814,938	0 0	90,024	6 3	1,934,861	15 11	{(D) 639,025 17 0 (S) 63,018 8 6}	{(D) 1,202,049 6 6 (S) 223,450 12 3}	4,854,877 7 6				

SUMMARY OF PROFIT AND LOSS ACCOUNTS FOR FINANCIAL YEAR 1952-53.

Works.	Revenue Assessment.	Expenditure.						Profit and Loss.								
		Operating Costs.	Interest.	Depreciation.		Redemption.	Amounts Written Off.	Total.	Excess— (Dr.) Expenditure (Cr.) Assessment. for Year.		Revenue Due for Previous Years Written Off.	Adjustments to Revenue for Years prior to 1952-53. (A) Loss. (B) Gain.		Interest and Other Losses prior to 30th June, 1958, Borne by State. (Act No. 5017.)	Loss since 30th June, 1958.	Gain as at 30th June, 1958.
				£	s.				d.	£		s.	d.			
Central Plant Workshops, Bendigo	£ s. d. 33,588 6 7	£ s. d. 30,785 8 8	£ s. d. 529 1 10	£ s. d. 1,270 0 0	£ s. d. 44 1 10	£ s. d. ..	£ s. d. ..	£ s. d. 32,628 12 4	£ s. d. {(Dr.) 228 19 10} {(Cr.) 1,188 14 1}	£ s. d. ..	£ s. d. (B) 3,400 6 1	£ s. d. ..	£ s. d. 36,141 3 3	£ s. d. ..	£ s. d. ..	
Coliban System	93,898 16 7	122,151 18 5	9,417 11 7	8,260 0 0	733 1 10	9 4 6	140,571 16 4	(Dr.) 46,672 19 9	228 5 8	{(A) 1 11 11} {(B) 39 16 7}	828,373 18 10	230,162 13 5	751 17 11			
Irrigation Districts—																
Pumping	208,820 0 6	283,571 0 8	..	22,220 0 0	..	340 14 1	306,131 14 9	(Dr.) 97,311 14 3	598 5 0	(B) 768 7 11	142,937 14 11	482,187 17 3	..			
Gravitation	480,281 8 1	647,996 9 4	..	25,351 0 0	..	8,229 19 6	681,577 8 10	{(Dr.) 202,391 13 8} {(Cr.) 1,095 12 11}	573 1 0	{(A) 3 12 1} {(B) 672 3 5}	529,255 8 2	509,377 8 8	35,525 5 7			
Irrigation Divisions	13,226 5 7	11,720 2 6	157 0 7	835 6 3	13 8 7	1 9 2	12,727 7 1	{(Dr.) 1,536 19 9} {(Cr.) 2,035 18 3}	114 16 1	(B) 7 11 1	408 19 7	5,364 5 1	2,402 12 2			
Waterworks Districts	245,891 15 7	510,083 6 4	7,506 11 11	12,759 0 0	609 17 4	2,359 0 4	533,407 15 11	{(Dr.) 295,036 11 8} {(Cr.) 7,520 11 4}	6,423 6 6	{(A) 29 14 6} {(B) 1,231 7 9}	677,688 8 2	2,326,536 18 5	55,713 8 3			
Waterworks Districts	216,890 17 10	165,310 14 8	18,785 1 8	19,218 0 0	1,520 0 7	21 0 0	204,854 16 11	{(Dr.) 13,134 8 9} {(Cr.) 25,170 9 8}	778 15 6	(B) 9,543 13 11	26,603 15 7	59,270 8 11	182,230 9 1			
Flood Districts	16,927 4 5	29,540 3 5*	..	85 0 0	..	11 12 8	29,636 16 1	{(Dr.) 12,735 14 5} {(Cr.) 26 2 5}	16 13 5	..	11,253 0 10	29,195 7 6	5,113 15 2			
Carriam District	6,534 5 8	14,153 16 0	..	26 0 0	..	..	14,179 16 0	(Dr.) 7,645 10 4	6 4	..	..	7,067 0 11	..			
Totals	1,316,059 0 10	1,815,313 0 0	36,485 7 7	90,024 6 3	2,920 10 2	10,973 0 3	1,955,716 4 3	{(Dr.) 676,694 12 1} {(Cr.) 37,037 8 8}	8,733 9 6	{(A) 25 18 6} {(B) 15,753 6 9}+	2,216,521 6 1	3,085,303 3 5	281,737 8 2			

\* Includes £375 instalment on Capitalized Maintenance.

+ Includes £9,930 0s. 4d. Interest on Capital charged 1951-52 adjusted.

DISTRICT BALANCE-SHEETS AS AT 30TH JUNE, 1953.

District.	Liabilities.					Assets.					Profit and Loss Account.	
	Capital Borne by— (A) State. (B) District.	Redemption Account.	Depreciation Reserve Account.	Sundry Creditors.	Accumulated Deficiency Chargeable to— (A) State Account. (B) District Account.	Profit and Loss Account.  Gain.	Works at Cost.	Depreciation Account.	Sundry Debtors.	Accumulated Surplus Credited to District Account.		
											£ s. d.	£ s. d.
1. Bendigo	.. { (A) 213,084 15 3 } (B) 17,382 2 7 }	254 15 6	6,879 10 9	..	(B) 47,135 9 2	..	231,321 13 4	6,879 10 9	10,994 5 11	..	36,141 3 3	..
£285,336 13s. 3d.												
CENTRAL PLANT WORKSHOPS.												
1. Harcourt	.. (A) 17,262 4 2	232 18 6	218 9 9	2 11 0	..	751 17 11	17,495 2 8	218 9 9	5 0 6	749 8 5	..	..
Totals	.. (A) 17,262 4 2	232 18 6	218 9 9	2 11 0	..	751 17 11	17,495 2 8	218 9 9	5 0 6	749 8 5	..	..
COLIBAN SYSTEM.												
2. Axe Creek	.. (A) 4,978 1 1	..	..	0 16 0	{ (A) 390 13 3 } (B) 972 10 0 }	..	4,978 1 1	..	72 15 4	..	1,291 3 11	..
3. Coliban	.. { (A) 2,174,524 9 1 } (B) 293,199 19 6 }	12,141 12 3	39,938 4 5	138 7 4	{ (A) 1,042,099 8 7 } (B) 13,729 8 9 }	..	2,467,724 8 7	39,938 4 5	11,874 2 6	..	227,770 15 7	828,373 18 10
4. Marong	.. { (A) 2,106 11 4 } (B) 22 18 10 }	15 0 2	750 3 3	..	{ (A) 936 0 10 } (B) 210 8 10 }	..	2,143 12 3	750 3 3	46 13 10	..	1,100 13 11	..
Totals	.. { (A) 2,181,609 1 6 } (B) 293,222 18 4 }	12,156 12 5	40,688 7 8	139 3 4	{ (A) 1,043,336 2 8 } (B) 14,912 7 7 }	..	2,474,846 1 11	40,688 7 8	11,993 11 8	..	230,162 13 5	828,373 18 10
Grand Total	.. { (A) 2,198,871 5 8 } (B) 293,222 18 4 }	12,389 10 11	40,906 17 5	141 14 4	{ (A) 1,043,336 2 8 } (B) 14,912 7 7 }	751 17 11	2,492,341 4 7	40,906 17 5	11,998 12 2	749 8 5	230,162 13 5	828,373 18 10
£3,604,532 14s. 10d.												

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

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

DISTRICT BALANCE-SHEETS AS AT 30TH JUNE, 1953.

District.	Liabilities.						Assets.															
	Capital Borne by State.	Redemption Account.	Depreciation Reserve Account.	Sundry Creditors.	Accumulated Chargeable to— (A) State Account. (B) District Account.	Profit and Loss Account.  Gain.	Works at Cost.	Depreciation Account.	Sundry Debtors.	Accumulated Surplus Credited to District Account.	Profit and Loss Account.											
											Loss since 30th June, 1938.	Interest and Other Losses prior to 30th June, 1938, Borne by State (Act No. 50/17.)										
													£	s.	d.							
£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.								
IRRIGATION DISTRICTS.																						
1. Bacchus Marsh	187,852	18	8	968	9	4	688	15	9	{(A) 21,170 8 3 (B) 19,174 18 10}	..	..	188,821	8	0	688	15	9	21,170	8	3	
2. Boort	290,772	2	11	215	13	8	2,593	5	7	{(A) 1,620 15 3 (B) 57,369 1 10}	..	..	290,987	16	7	2,593	5	7	1,620	15	3	
3. Calivil	199,796	7	9	153	7	2	665	10	9	{(A) 19,935 9 2}	11,756	9	8	199,949	14	11	665	10	9	19,935	9	2
4. Campaspe	66,751	5	7	..	..	..	273	7	6	{(A) 3,695 6 10 (B) 3,561 6 1}	..	..	66,751	5	7	273	7	6	3,695	6	10	
5. Central Gippsland (under construction)	1,448,786	14	1	..	..	..	..	..	..	1,104	4	8	1,448,786	14	1	..	..	..	..	..	..	
6. Coloma	873,966	5	5	4,025	5	5	4,071	13	10	{(A) 15,145 0 10 (B) 7,406 12 7}	..	..	877,991	10	10	4,071	13	10	15,145	0	10	
Deakin	98,837	3	8	506	14	4	1,300	1	0	{(A) 2,255 4 9 (B) 7,019 5 9}	..	..	99,343	18	0	1,300	1	0	2,255	4	9	
Dingee	94,370	11	0	198	0	9	209	10	4	{(A) 4,766 11 5 (B) 172 7 0}	395	9	4	94,568	11	9	209	10	4	4,766	11	5
Katandra	190,319	0	1	220	9	5	395	16	1	{(A) 27,858 0 1 (B) 12 5 5}	846	17	2	190,539	9	6	395	16	1	27,858	0	1
O. Kerang	390,577	16	10	1,110	12	9	2,062	13	7	{(A) 3,766 6 2 (B) 19,979 17 10}	..	..	391,688	9	7	2,062	13	7	3,766	6	2	
11. Koondrook	488,965	10	1	1,307	4	9	2,780	6	6	{(A) 52,391 9 8 (B) 25,873 19 5}	..	..	490,272	14	10	2,780	6	6	52,391	9	8	
12. Maffra-Sale	1,362,506	19	6	2,447	15	0	5,156	2	11	{(A) 3,713 1 5 (B) 86,779 8 10}	..	..	1,364,954	14	6	5,156	2	11	3,713	1	5	
13. Murray Valley	3,162,234	16	5	136	0	0	2,938	13	5	..	21,430	16	6	3,162,370	16	5	2,938	13	5	..	..	
14. Mystic Park	61,095	9	8	101	8	8	95	3	6	{(A) 2,112 16 8 (B) 17,611 7 9}	..	..	61,196	18	4	95	3	6	2,112	16	8	
15. North Shepparton	378,233	14	5	1,052	13	5	1,095	16	0	{(A) 42,760 2 0 (B) 7,575 18 1}	..	..	379,286	7	10	1,095	16	0	42,760	2	0	
16. Robinvale	581,663	4	10	..	..	..	31,021	0	8	{(B) 72,095 0 0}	..	..	581,663	4	10	31,021	0	8	..	..	..	
17. Rochester	1,206,233	14	3	3,408	12	1	4,710	7	6	{(A) 35,162 16 6 (B) 16,527 15 6}	..	..	1,209,612	6	4	4,710	7	6	35,162	16	6	
18. Rodney	1,601,110	7	3	2,342	14	3	15,087	12	6	{(A) 86,159 15 7 (B) 65,495 12 6}	..	..	1,603,453	1	6	15,087	12	6	86,159	15	7	
19. Shepparton	510,394	15	1	899	3	8	3,109	3	1	{(A) 60,912 11 9 (B) 29,674 1 11}	..	..	511,293	18	9	3,109	3	1	60,912	11	9	
20. South Shepparton	121,800	5	0	309	12	3	501	5	3	{(A) 2,735 16 9 (B) 7,607 2 3}	..	..	122,109	17	3	501	5	3	2,735	16	9	
21. Swan Hill	491,492	19	5	1,033	7	8	12,314	10	4	{(A) 6,236 10 6 (B) 65,702 3 11}	..	..	492,526	7	1	12,314	10	4	6,236	10	6	
22. Third Lake	51,813	4	11	82	3	11	172	2	6	{(A) 2,439 2 2 (B) 5,609 9 6}	..	..	51,895	8	10	172	2	6	2,439	2	2	
23. Tongala-Stanhope	966,777	15	11	2,562	12	6	3,838	16	6	{(A) 73,622 18 2 (B) 57,475 19 6}	..	..	969,340	8	5	3,838	16	6	73,622	18	2	
24. Tragowel Plains	807,912	5	7	1,461	1	9	4,546	10	11	{(A) 42,840 6 8 (B) 50,691 18 7}	..	..	809,373	7	4	4,546	10	11	42,840	6	8	
25. Werribee	313,156	14	1	1,491	5	10	2,312	13	5	{(A) 15,475 10 3 (B) 18,971 17 9}	..	..	314,647	19	11	2,312	13	5	15,475	10	3	
Totals	15,947,422	2	5	26,034	8	7	102,030	19	5	{(A) 526,776 0 10 (B) 642,387 10 10}	35,525	5	7	15,973,456	11	0	102,030	19	5	569,689	8	2





DISTRICT BALANCE-SHEETS AS AT 30TH JUNE, 1953.

District.	Liabilities.					Assets.						
	Capital Borne by— (A) State, (B) District.	Redemption Account.	Depreciation Reserve Account.	Sundry Creditors.	Accumulated Deficiency Chargeable to— (A) State Account. (B) District Account.	Profit and Loss Account.  Gain.	Works at Cost.	Depreciation Account.	Sundry Debtors.	Accumulated Surplus Credited to District Account.	Profit and Loss Account.	
											Loss since 30th June, 1938.	Interest and Other Losses prior to 30th June, 1938, Borne by State. (Act No. 5017.)
£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	
URBAN DIVISIONS.												
1. Cohuna ..	{ (A) 7,197 7 6 } { (B) 3,160 3 8 }	218 18 8	1,665 11 3	0 0 6	(B) 173 10 4	29 2 0	10,551 6 10	1,665 11 3	227 15 10	..	..	..
2. Lockington ..	{ (A) 3,060 16 11 } { (B) 118 17 2 }	37 7 5	897 4 10	4 10 0	..	734 5 5	3,217 1 6	897 4 10	105 4 5	633 11 0	..	..
3. Macorna ..	{ (A) 1,487 18 0 } { (B) 1,487 18 0 }	..	97 17 5	..	(B) 327 7 1	..	1,487 18 0	97 17 5	..	..	327 7 1	..
4. Red Cliffs ..	{ (A) 36,549 3 2 } { (B) 1,624 2 5 }	271 0 6	478 2 0	42 13 0	(B) 3,256 19 11	..	38,411 13 11	478 2 0	599 12 4	..	2,732 12 9	..
5. Robinvale ..	{ (A) 12,686 8 7 } { (B) 12,686 8 7 }	..	490 3 2	0 1 0	(B) 189 0 1	325 7 3	12,686 8 7	490 3 2	514 8 4	..	..	..
6. Tallygaroopna ..	{ (A) 4,087 0 2 } { (B) 4,087 0 2 }	..	196 9 4	..	..	198 17 3	4,087 0 2	196 9 4	11 6 11	187 10 4	..	..
Totals ..	{ (A) 65,068 14 4 } { (B) 4,903 3 3 }	527 6 7	3,825 8 0	47 4 6	(B) 3,946 17 5	1,287 11 11	70,441 9 0	3,825 8 0	1,458 7 10	821 1 4	3,059 19 10	..
The Districts hereunder are those whose works will not produce sufficient revenue to cover the expenses of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By Authority of Orders in Council, dated 30th July, 1938, and 18th December, 1944, under the provisions of Section 6, Water Act 1937, No. 4513).												
7. Corop ..	{ (A) 231 15 6 } { (B) 231 15 6 }	..	116 10 6	..	(A) 111 15 7	..	231 15 6	116 10 6	48 15 3	..	0 12 3	62 8 1
8. Dingee ..	{ (A) 1,674 3 11 } { (B) 1,674 3 11 }	..	175 17 5	..	{ (A) 305 0 5 } { (B) 152 13 10 }	..	1,674 3 11	175 17 5	..	..	364 3 9	93 10 6
9. Heyfield ..	{ (A) 28,983 15 3 } { (B) 28,983 15 3 }	..	893 9 11	0 18 6	(A) 160 19 2	660 4 6	28,983 15 3	893 9 11	484 2 0	177 1 0	..	160 19 2
10. Lettchville ..	{ (A) 4,188 15 4 } { (B) 4,188 15 4 }	23 19 8	206 5 2	6 9 3	(A) 511 13 5	..	4,212 15 0	206 5 2	28 7 0	..	489 15 8	..
11. Murrabit ..	{ (A) 1,030 18 3 } { (B) 1,030 18 3 }	..	574 14 10	..	{ (A) 1,572 0 1 } { (B) 30 16 2 }	..	1,030 18 3	574 14 10	61 0 10	..	1,449 13 7	92 1 10
12. Stanhope ..	{ (A) 5,591 14 4 } { (B) 5,591 14 4 }	21 4 4	717 4 8	..	..	454 15 9	5,612 18 8	717 4 8	52 8 0	402 7 9	..	..
Totals ..	{ (A) 41,701 2 7 } { (B) 41,701 2 7 }	45 4 0	2,684 2 6	7 7 9	{ (A) 2,661 8 8 } { (B) 183 10 0 }	1,115 0 3	41,746 6 7	2,684 2 6	674 13 1	579 8 9	2,304 5 3	408 19 7
Grand Totals ..	{ (A) 106,769 16 11 } { (B) 4,903 3 3 }	572 10 7	6,509 10 6	54 12 3	{ (A) 2,661 8 8 } { (B) 4,130 7 5 }	2,402 12 2	112,187 15 7	6,509 10 6	2,133 0 11	1,400 10 1	5,364 5 1	408 19 7
					£128,004 18. 9d.			£128,004 18. 9d.				

DISTRICT BALANCE-SHEETS AS AT 30TH JUNE, 1953.

District.	Liabilities.						Assets.															
	Capital Borne by— (A) State, (B) District.			Redemption Account.	Depreciation Reserve Account.	Sundry Creditors.	Accumulated Deficiency Chargeable to— (A) State Account, (B) District Account.			Profit and Loss Account.	Works at Cost.			Depreciation Account.	Sundry Debtors.	Accumulated Surplus Credited to District Account.	Loss since 30th June, 1938.	Interest and Other Losses prior to 30th June, 1938, Borne by State. (Act No. 5017).				
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	
WATERWORKS DISTRICTS.																						
1. Bellarine Peninsula	..	{(A) 384,306 10 4}		3,163 7 7	Dr 21,112 7 1		4 0 8	{(A) 9,927 9 8}								1,830 11 8					34,350 12 9	9,927 9 8
2. East Loddon	..	{(B) 83,187 4 2}		3,281 9 1	..		1 3 6	{(B) 34,301 1 3}								288 19 8						
3. Loddon	..	{(A) 3,145 12 1}		4,320 17 6	..		1 12 10	{(B) 2,836 14 6}								3 1 10						
4. Mornington Peninsula	..	{(A) 172,503 2 9}		2,331 0 11	8,167 8 7		3 6 3	{(A) 1,077 12 3}								4,122 16 7						
5. Newstead	..	{(B) 63,671 1 11}		..	..		..	..								..						
6. Normanville	..	{(A) 52,294 2 7}		222 1 11	845 17 7		2 1 0	{(B) 8,835 3 11}								19 14 8						
7. Olway	..	{(B) 89,289 14 0}		3,580 9 11	31,613 7 7		18 0 9	{(B) 826 9 0}								1,988 17 4						
8. Werribee	..	{(A) 12,521 1 9}		82 12 10	..		1 10 7	{(A) 2,221 10 10}								..						
9. Western Wimmera	..	{(A) 385,869 18 1}		177 10 2	8,038 4 4		14 9 0	{(A) 13,428 5 1}								4,422 15 10						
10. West Loddon	..	{(B) 89,289 14 0}		3,764 7 3	..		2 5 2	{(B) 70,168 0 0}								2 3 1						
11. Wimmera United	..	{(A) 318,180 8 9}		965 12 11	5,142 16 1		59 18 9	{(B) 58 12 3}								341 19 2						
12. Wythella	..	{(A) 141,273 7 4}		..	..		17 6 6	{(B) 23,679 10 3}								90 3 7						
Totals	..	{(A) 1,622,421 5 4}		21,880 10 1	32,695 7 1		125 15 0	{(A) 26,654 17 10}								13,165 12 5						
		{(B) 236,148 0 1}						{(B) 145,047 14 1}														

The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expense of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from the maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account". (By authority of Orders in Council, dated 30th June, 1938, 21st October, 1941, and 25th November, 1952, under the provisions of Section 6, *Water Act 1937*, No. 4513.)

13. Birchip	{(A) 142,587 5 6}			382 17 0						0 12 0	{(A) 43,091 6 4}					142,970 2 6					3 1 5										24,322 11 1		23,844 1 4
14. Hindmarsh	{(B) 20,869 8 3}			103 4 3	2,873 17 11						{(B) 5,077 15 6}					20,972 12 6	2,873 17 11				45 17 9										1,757 5 3		
15. Karkaroo	{(A) 322,556 2 10}									213 10 6	{(B) 170,136 16 8}					322,556 2 10					506 16 7										121,757 18 0		41,264 17 1
16. Kerang-North-West Lakes	{(A) 4,069 17 9}									1 7 0	{(B) 13,179 4 6}					4,069 17 9					121 2 5										1,699 15 2		831 10 5
17. Long Lake	{(A) 183,187 12 4}				624 10 8					2 12 1	{(B) 133,246 16 3}					183,187 12 4	624 10 8				1,904 19 7										138,330 13 9		22,303 5 10
18. Millewa	{(A) 722,372 8 6}				58,175 16 10					391 19 7	{(B) 852,698 3 1}					722,372 8 6	58,175 16 10				6,911 10 6										665,956 2 2		291,206 16 0

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



DISTRICT BALANCE-SHEETS AS AT 30TH JUNE, 1953.

District.	Liabilities.					Assets.										
	Capital Borne by— (A) State, (B) District.	Redemption Account.	Depreciation Reserve Account.	Sundry Creditors.	Accumulated Deficiency Chargeable to— (A) State Account, (B) District Account.	Profit and Loss Account.		Works at Cost.	Depreciation Account.	Sundry Debtors.	Accumulated Surplus Credited to District Account.		Profit and Loss Account.		Interest and Other Losses prior to 30th June, 1938, Borne by State, (Act No. 5017).	
						£	s. d.				£	s. d.	£	s. d.		£
URBAN DISTRICTS.																
1. Allansford ..	{(A) 2,885 6 9 (B) 807 7 4}	31 3 8	261 19 11	0 0 6	..	244 10 1	3,223 17 9	261 19 11	27 11 3	216 19 4	..	..	..	..	..	
2. Antwerp ..	{(A) 452 17 8 (B) 252 7 4}	17 12 8	43 17 4	..	..	69 19 4	722 17 8	43 17 4	23 16 10	46 2 6	..	..	..	..	..	
3. Barwon Heads and Ocean Grove ..	{(A) 58,319 11 7 (B) 7,902 14 8}	452 0 10	Do. 3,639 13 6	1 17 10	..	2,311 7 3	66,632 15 9	Do. 3,639 13 6	1,558 0 10	796 15 7	..	..	..	..	..	
4. Berriville ..	{(A) 7,793 1 8 (B) 3 5 5}	25 3 7	89 0 2	6 8 8	{(A) 216 18 8 (B) 349 18 8}	..	7,821 5 0	89 0 2	30 1 8	..	326 11 4	216 18 8	..	..	..	
5. Berwick ..	{(A) 32,024 11 10 (B) 3,031 7 9}	193 18 6	4,617 4 8	7 3 11	..	2,524 7 7	35,249 18 1	4,617 4 8	227 12 3	2,303 19 3	..	..	..	..	..	
6. Birregurra ..	{(A) 35,558 7 8 (B) ..}	..	487 15 7	1 17 9	{(B) 754 15 0 (B) 48 7 3}	..	35,558 7 8	487 15 7	202 19 6	..	553 13 3	..	..	..	..	
7. Brim ..	{(A) 9,058 7 6 (B) 332 8 6}	47 8 8	619 10 10	..	{(B) 48 7 3 (B) 371 11 7}	21 0 10	9,430 15 11	619 10 10	76 16 10	..	..	..	..	..	..	
8. Camperdown ..	{(A) 48,440 9 4 (B) 54,024 15 1}	2,271 3 2	10,368 12 11	9 5 9	{(B) 371 11 7 (A) 9,188 12 3}	..	104,493 11 9	10,368 12 11	495 15 0	..	127 9 2	..	..	9,188 12 3	..	
9. Chelsea-Frankston ..	{(A) 708,481 9 9 (B) 132,327 12 11}	5,514 9 6	36,973 4 2	58 6 10	{(A) 9,188 12 3 (B) 769 15 1}	31,076 10 5	846,323 12 2	36,973 4 2	9,231 8 4	21,903 8 11	..	..	..	558 19 6	..	
10. Cobden ..	{(A) 14,795 7 10 (B) 12,654 7 3}	557 0 5	2,506 16 6	2 5 6	{(B) 769 15 1 (A) 538 9 1}	..	27,941 0 10	2,506 16 6	278 15 9	..	..	..	..	538 9 1	..	
11. Cranbourne ..	{(A) 10,505 7 2 (B) 590 5 9}	68 10 3	477 12 10	1 2 8	{(A) 538 9 1 (B) 424 19 8}	1,362 16 5	11,162 10 4	477 12 10	71 4 0	1,294 7 11	..	..	..	439 8 0	..	
12. Culgoa ..	{(A) 2,163 9 5 (B) 2,239 16 5}	108 13 9	71 2 4	0 2 6	{(B) 424 19 8 (A) 3,601 18 7}	..	4,465 18 0	71 2 4	31 15 6	..	..	..	..	..	3,601 18 7	
13. Dandenong-Springvale ..	{(A) 551,547 13 4 (B) 160,542 13 10}	5,980 13 0	31,416 12 7	139 19 1	{(A) 3,601 18 7 (A) 62,246 5 3}	62,246 5 3	718,071 0 2	31,416 12 7	5,916 15 9	56,469 8 7	..	..	..	..	..	
14. Dimboola ..	{(A) 9,100 7 2 (B) 10,690 2 9}	504 18 8	1,398 4 10	15 12 9	..	1,857 3 5	20,295 8 7	1,398 4 10	1,084 13 11	188 2 3	..	..	..	..	..	
15. Dromana-Portsea ..	{(A) 338,173 4 8 (B) 3,916 18 8}	904 10 3	24,972 15 4	33 8 7	..	37,641 14 5	342,994 13 7	24,972 15 4	6,594 19 11	31,080 3 1	..	..	..	..	..	
16. Garvoc ..	{(A) 51 4 8 (B) ..}	..	..	..	..	..	51 4 8	..	..	..	..	..	..	..	..	
17. Jeparit ..	{(A) 7,988 8 8 (B) 5,653 5 8}	331 7 6	600 3 1	..	{(B) 371 11 11 (B) ..}	111 2 8	13,928 10 10	600 3 1	527 5 7	..	..	..	..	..	..	
18. Longwarry ..	{(A) 8,488 14 6 (B) 9,085 12 0}	408 11 8	2,277 16 7	0 12 0	..	3,592 9 7	17,982 18 2	2,277 16 7	72 12 2	3,520 9 5	..	..	..	..	..	
19. Marico ..	{(A) 2,819 16 1 (B) 1,333 9 2}	89 12 3	956 14 0	0 10 6	..	377 16 6	4,239 6 6	956 14 0	61 4 5	320 13 7	..	..	..	..	..	
20. Merbein ..	{(A) 20,414 9 8 (B) 4,029 19 8}	353 11 0	1,075 5 7	7 4 1	{(A) 510 10 1 (B) 2,199 17 7}	..	24,754 12 4	1,075 5 7	604 11 3	..	1,645 18 5	510 10 1	..	..	..	
21. Minyip ..	{(A) 7,572 18 3 (B) 2,996 5 6}	236 6 11	169 19 2	29 7 11	{(B) 27 12 0 (B) ..}	54 15 9	10,805 10 8	169 19 2	111 15 8	..	..	..	..	..	..	
22. Mornington ..	{(A) 109,763 19 9 (B) 52,670 1 6}	2,173 4 4	10,464 8 0	70 10 3	..	11,252 19 1	164,064 5 7	10,464 8 0	3,282 5 7	8,584 3 9	..	..	..	..	..	
23. Nar-Nar-Goon and Tynong ..	{(A) 140 9 1 (B) ..}	..	..	..	..	..	140 9 1	..	..	..	..	..	..	..	..	
24. Natimuk ..	{(A) 875 5 8 (B) 4,057 19 0}	167 5 3	1,181 4 4	1 0 0	{(B) 358 5 4 (B) ..}	..	5,018 12 5	1,181 4 4	196 6 6	..	244 16 4	..	..	..	..	
25. Officer ..	{(A) 15,012 9 3 (B) 9,502 0 11}	480 0 6	3,730 12 0	0 11 0	..	6,352 9 6	24,994 10 8	3,730 12 0	597 8 6	5,755 12 0	..	..	..	..	..	
26. Pakenham ..	{(A) 15,012 9 3 (B) 9,502 0 11}	..	..	0 2 2	{(B) 4 11 8 (B) ..}	..	..	..	4 8 2	..	0 5 8	..	..	..	..	
27. Pimpinio ..	{(A) 5,358 7 9 (B) 1,208 1 10}	111 3 6	855 15 4	0 5 6	..	964 14 7	7,238 13 1	855 15 4	83 16 5	881 3 8	..	..	..	..	..	
28. Pyramid Hill ..	{(A) 5,358 7 9 (B) 1,208 1 10}	..	..	..	..	..	..	..	..	..	..	..	..	..	..	

NOTE. Urban District Balance Sheets continued on next page.

DISTRICT BALANCE-SHEETS AS AT 30TH JUNE, 1953.

District.	Liabilities.					Assets.									
	Capital Borne by— (A) State, (B) District.	Redemption Account.	Depreciation Reserve Account.	Sundry Creditors.	Accumulated Deficiency Chargeable to— (A) State Account, (B) District Account.	Profit and Loss Account.  Gain.	Works at Cost.	Depreciation Account.	Sundry Debtors.	Accumulated Surplus Credited to District Account.	Profit and Loss Account.				
											Loss since 30th June, 1938.	Interest and Other Losses for 30th June 1938, Incurred by the State. (Act No. 5017.)			
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
URBAN DISTRICTS—continued.															
29. Queenscliff and Lonsdale	{(A) 107,555 19 0 (B) 16,030 0 10}	890 6 2	3,269 8 6	6 16 7	(B) 9,406 11 11	..	124,408 19 8	3,269 8 6	1,493 6 4	..	7,987 8 6	..	..	..	..
30. Rainbow	{(A) 4,096 11 2 (B) 7,462 11 8}	352 17 7	1,469 8 11	7 16 8	..	3,867 4 6	11,906 10 1	1,469 8 11	512 8 9	3,368 2 9	..	..	..	..	..
31. Rupanyup	{(A) 6,741 4 4 (B) 4,105 3 2}	237 18 4	891 0 8	43 15 11	..	81 7 11	11,084 5 10	891 0 8	112 11 3	12 12 7	..	..	..	..	..
32. Somerville	{(A) 3,661 3 7 (B) 4,381 15 3}	204 7 6	1,185 2 5	..	..	339 9 5	8,378 8 3	1,185 2 5	43 9 5	364 18 1	..	..	..	..	..
33. South Frankston	{(A) 34,692 8 5 (B) 25,391 19 1}	1,184 5 11	5,360 5 9	32 14 0	..	6,993 5 7	61,208 13 5	5,360 5 9	1,483 3 11	5,542 15 8	..	..	..	..	..
34. Terang	{(A) 33,668 19 9 (B) 27,629 18 8}	1,282 19 9	8,248 17 8	11 19 6	..	440 6 4	62,581 17 5	8,248 17 8	280 3 1	172 2 9	..	..	..	..	..
35. Watchem	{(A) 4,993 9 11 (B) 122 18 7}	38 17 5	362 12 2	1 16 6	{(A) 140 17 2 (B) 740 1 5}	..	5,154 1 11	362 12 2	3 17 6	..	739 4 5	140 17 2	..	..	..
Totals	{(A) 2,203,196 3 7 (B) 565,237 6 2}	25,229 1 9	152,763 10 8	492 14 11	{(A) 14,197 5 10 (B) 15,827 19 1}	173,788 16 5	2,792,389 3 10	152,763 10 8	35,923 1 10	142,822 1 8	12,623 14 7	14,197 5 10	..	..	..
The Districts set out hereunder are those whose works will not produce sufficient revenue to cover the expenses of the maintenance and management thereof, and where water supplies are being continued by direction of the Governor in Council. The annual amount of loss resulting from maintenance and management of these districts has been transferred to the "Revenue Expenditure Chargeable to the State Account." (By authority of Orders in Council dated 30th June, 1938; 9th December, 1940; 23rd October, 1945, and 24th April, 1946, respectively, under the provisions of Section 6, <i>Water Act 1937</i> , No. 4513).															
36. Anglesea	{(A) 15,461 19 3 (B) 29 10 1}	2 1 7	2,192 1 10	0 10 0	(A) 3,225 6 6	..	15,492 18 0	2,192 1 10	122 8 10	..	1,465 4 10	1,638 15 9	..	..	..
37. Beulah	{(A) 7,074 0 8 (B) 2 13 2}	10 5 8	776 8 6	6 3 4	(A) 744 3 1	..	7,086 19 6	776 8 6	262 16 11	..	390 11 4	96 18 2	..	..	..
38. Birchip	{(A) 16,141 16 0 (B) 4,159 7 1}	12 12 3	265 5 6	0 6 0	{(A) 3,598 1 11 (B) 564 5 4}	..	16,154 8 3	265 5 6	198 18 6	..	3,090 8 4	873 6 5	..	..	..
39. Bittern	{(A) 4,159 7 1 (B) 15 11 3}	4 2 1	561 3 2	0 10 0	(A) 550 5 0	..	4,178 15 5	561 3 2	111 10 2	..	439 9 10	..	..	..	..
40. Bunyip	{(A) 9,842 3 8 (B) 21 9 6}	7 2 5	2,559 3 0	3 4 8	(A) 474 1 9	2,252 7 7	9,870 15 7	2,559 3 0	163 16 11	2,091 15 4	..	474 1 9	..	..	..
41. Carwarp	{(A) 635 19 0 (B) 2,482 1 3}	..	173 1 0	..	{(A) 354 4 3 (B) 318 7 11}	288 19 8	635 19 0	173 1 0	961 11 10	..	..	..	..	..	..
42. Chillingollah	{(A) 2,816 12 8 (B) 13,807 0 1}	8 14 5	54 9 7	0 0 6	{(A) 575 10 1 (B) 682 4 6}	..	2,490 15 8	54 9 7	945 9 10	..	93 7 2	218 18 1	..	..	..
43. Chinkapook	{(A) 2,816 12 8 (B) 13,807 0 1}	..	181 19 10	..	{(A) 1,174 6 7 (B) 68 7 0}	..	2,816 12 8	181 19 10	107 4 5	..	977 13 11	157 15 3	..	..	..
44. Crib Point	{(A) 13,807 0 1 (B) 2,816 12 8}	141 12 8	1,755 19 6	0 10 0	(A) 1,283 6 6	..	16,212 16 3	1,755 19 6	572 17 1	..	729 0 2	..	..	..	..
45. Doon	{(A) 2,282 4 3 (B) 681 4 0}	0 7 5	213 10 1	..	(A) 130 4 9	86 6 3	698 7 5	213 10 1	5 15 10	80 10 5	..	130 4 9	..	..	..
46. Drysdale	{(A) 22,241 7 5 (B) 38 2 0}	8 12 8	1,349 9 8	0 0 8	(A) 354 9 1	348 11 11	22,287 14 5	1,349 9 8	376 13 3	..	..	326 16 1	..	..	..
47. Garfield	{(A) 5,768 0 0 (B) 19 8 1}	20 1 6	1,780 18 8	0 17 6	(A) 381 5 7	1,723 1 1	5,802 9 7	1,780 18 8	68 8 3	1,655 10 4	..	381 5 7	..	..	..
48. Hastings	{(A) 19,404 14 0 (B) 6 4 10}	12 1 0	2,772 3 2	1 6 5	(A) 1,038 6 2	..	19,422 19 10	2,772 3 2	99 4 10	..	491 14 0	448 13 9	..	..	..
49. Hopetoun	{(A) 10,833 19 9 (B) 23 15 4}	30 9 5	1,886 11 11	14 13 5	(A) 819 13 7	87 2 11	10,888 1 0	1,886 11 11	341 10 7	..	..	580 2 10	..	..	..
50. Jung Jung	{(A) 4,611 19 2 (B) 1 12 6}	..	788 9 11	..	{(A) 2,443 3 11 (B) 20 1 0}	..	4,613 11 8	788 9 11	33 6 1	..	1,889 15 11	540 2 11	..	..	..
51. Koondrook	{(A) 6,503 18 5 (B) 193 2 9}	..	556 14 9	8 16 10	{(A) 4,158 6 4 (B) 193 2 9}	..	6,503 18 5	556 14 9	384 11 8	..	3,563 17 0	408 17 3	..	..	..

[illegible]

DISTRICT BALANCE-SHEETS AS AT 30TH JUNE, 1953.

District.	Liabilities.						Assets.							
	Capital borne by State.	Redemption Account.	Depreciation Reserve Account.	Sundry Creditors.	Accumulated Deficiency Chargeable to (A) State Account. (B) District Account.		Profit and Loss Account.  Gain.	Works at Cost.	Depreciation Account.	Sundry Debtors.	Accumulated Surplus Credited to District Account.	Profit and Loss Account.		
					£	s. d.						£	s. d.	Loss since 30th June, 1938, Borne by State. (Act No. 5017.)
	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.
1. Cardinia ..	116,120	16 11	..	0 10 0	{ (A) 3,303 19 2 } { (B) 17,102 1 2 }	..	116,120	16 11	..	9,546	19 0	..	7,555 12 2	3,303 19 2
2. Kanyapella ..	3,888	11 10	..	1 3 9	..	1,948 10 10	3,952	16 0	..	43 3 11	1,906 10 8	..	..	..
3. Loch Garry ..	18,621	18 11	..	..	..	3,165 4 4	18,621	18 11	..	82 12 9	3,082 11 7	..	..	..
4. Lower Koo-wee-rup ..	388,649	11 11	..	23 19 8	{ (A) 7,949 1 8 } { (B) 22,582 2 6 }	..	388,649	11 11	..	966 6 10	..	21,639 15 4	7,949 1 8	..
Totals ..	527,280	19 7	..	25 13 5	{ (A) 11,253 0 10 } { (B) 30,684 3 8 }	5,113 15 2	527,345	3 9	..	10,639 2 6	4,989 2 3	29,195 7 6	11,253 0 10	..
£583,421 16s. 10d.														

FLOOD PROTECTION DISTRICTS.



DISTRICT BALANCE-SHEETS AS AT 30TH JUNE, 1953.

District.	Liabilities.					Assets.					Profit and Loss Account.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	Capital Borne by State.	Depreciation Reserve Account.	Sundry Creditors.	Accumulated Deficiency Chargeable to— (A) State Account. (B) District Account.	Profit and Loss Account. Gain.	Works at Cost.	Depreciation Account	Sundry Debtors.	Accumulated Surplus Credited to District Account.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
										£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.

DRAINAGE DISTRICT.



STATEMENT OF REVENUE SETTING OUT ARREARS AS AT 1ST JULY, 1952, AND AS AT 30TH JUNE, 1953.

	Total.	Water Act 1940 (No. 4740), Sec. 3.		General Rate.		Irrigation Charge.		Drainage Rate.		Flood Protection Charge.		Sales of Water.		Mis- cellaneous.
		Consolidated Arrears.	Interest.	Rate.	Interest.	Charge.	Interest.	Rate.	Interest.	Charge.	Interest.	Sales.	Interest.	
	£	£	£	£	£	£	£	£	£	£	£	£	£	£
Arrears as at 1st July, 1952 .. ..	238,347	38,441	3,144	45,247	6,946	18,860	1,173	3,552	350	1,281	119	114,308	561	4,365
Assessments 1952-53 .. ..	962,075	..	..	471,409	..	420,915	..	53,683	..	16,068	..	..	..	..
Additional Water Sales, and Interest Charges to 30th June, 1953 .. ..	410,145	..	345	..	2,735	..	1,211	..	233	..	93	282,153	762	122,613
Total Amount Collectable, 1952-53 ..	1,610,567	38,441	3,489	516,656	9,681	439,775	2,384	57,235	583	17,349	212	396,461	1,323	126,978
Deduct—														
(i) Revenue Collected 1952-53 ..	1,373,558	10,075	668	465,894	2,515	418,305	1,341	54,153	219	16,028	105	283,802	674	119,779
(ii) Credits Absorbed .. ..	4,152	30	..	835	3	229	..	44	..	43	..	405	..	2,563
Balance .. ..	232,857	28,336	2,821	49,927	7,163	21,241	1,043	3,038	364	1,278	107	112,254	649	4,636
Add—Amounts Overpaid .. ..	5,072	..	70	1,512	6	228	..	24	..	24	..	809	1	2,398
Total—Gross Arrears at 30th June, 1953	237,929	28,336	2,891	51,439	7,169	21,469	1,043	3,062	364	1,302	107	113,063	650	7,034
Deduct—Amounts recommended for Writing off 1952-53 .. ..	20,048	976	926	8,917	581	7,273	8	73	1	26	2	870	52	343
BALANCE—Net Arrears as at 30th June, 1953 .. ..	217,881	27,360	1,965	42,522	6,588	14,196	1,035	2,989	363	1,276	105	112,193	598	6,691

This Statement is subject to Audit and minor adjustments.

## WATER SUPPLY WORKS DEPRECIATION ACCOUNTS AS AT 30TH JUNE, 1953.

District.	Balance at 1st July, 1952.	Amounts Paid into Account 1952-53.	Interest 1952-53.	Total.	Expenditure 1952-53.	Balance in Account at 30th June, 1953.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
IRRIGATION AND WATER SUPPLY DISTRICTS.						
Bacchus Marsh .. .. .	507 2 2	169 0 0	12 13 7	688 15 9	..	688 15 9
Boort .. .. .	1,497 1 0	1,058 16 1*	37 8 6	2,593 5 7	..	2,593 5 7
Calivil .. .. .	444 8 7	210 0 0	11 2 2	665 10 9	..	665 10 9
Campaspe .. .. .	135 0 0	135 0 0	3 7 6	273 7 6	..	273 7 6
Cohuna .. .. .	2,182 18 11	1,839 0 0	49 14 11	4,071 13 10	..	4,071 13 10
Deakin .. .. .	642 0 0	642 0 0	16 1 0	1,300 1 0	..	1,300 1 0
Dingee .. .. .	231 14 6	62 0 0	5 15 10	299 10 4	..	299 10 4
Fish Point .. .. .	23 0 0	23 0 0	0 11 6	46 11 6	..	46 11 6
Katandra .. .. .	296 7 11	92 0 0	7 8 2	395 16 1	..	395 16 1
Kerang .. .. .	1,086 16 4	948 13 10*	27 3 5	2,062 13 7	..	2,062 13 7
Koondrook .. .. .	1,373 0 0	1,373 0 0	34 6 6	2,780 6 6	..	2,780 6 6
Maffra-Sale .. .. .	3,720 13 3	1,342 9 4*	93 0 4	5,156 2 11	..	5,156 2 11
Murray Valley .. .. .	1,621 10 0	1,276 12 8*	40 10 9	2,938 13 5	..	2,938 13 5
Mystic Park .. .. .	47 0 0	47 0 0	1 3 6	95 3 6	..	95 3 6
North Shepparton .. .. .	777 7 4	299 0 0	19 8 8	1,095 16 0	..	1,095 16 0
Nyah (I. and W.S.) .. .. .	11,965 7 7	875 0 0	299 2 8	13,139 10 3	42 3 0	13,097 7 3
Nyah (Drainage) .. .. .	1,058 11 9	95 0 0	26 9 3	1,180 1 0	..	1,180 1 0
Red Cliffs-Merbein (I. and W.S.) .. .. .	147,341 7 9	12,323 0 0	3,683 10 8	163,347 18 5	24,387 17 11	138,960 0 6
Red Cliffs-Merbein (Drainage) .. .. .	23,933 7 2	1,414 0 0	598 6 8	25,945 13 10	947 4 5	24,998 9 5
Robinvale .. .. .	24,795 17 10	5,716 0 0	619 17 11	31,131 15 9	110 15 1	31,021 0 8
Rochester .. .. .	3,433 15 5	1,190 15 2*	85 16 11	4,710 7 6	..	4,710 7 6
Rodney .. .. .	8,857 17 1	6,008 6 6*	221 8 11	15,087 12 6	..	15,087 12 6
Shepparton .. .. .	2,280 16 1	771 6 7*	57 0 5	3,109 3 1	..	3,109 3 1
South Shepparton .. .. .	330 19 9	162 0 0	8 5 6	501 5 3	..	501 5 3
Swan Hill (I. and W.S.) .. .. .	7,881 2 3	1,024 3 0*	184 7 5	9,089 12 8	..	9,089 12 8
Swan Hill (Drainage) .. .. .	2,938 8 6	213 0 0	73 9 2	3,224 17 8	..	3,224 17 8
Third Lake .. .. .	85 0 0	85 0 0	2 2 6	172 2 6	..	172 2 6
Tongala-Stanhope .. .. .	2,876 7 3	890 11 1*	71 18 2	3,838 16 6	..	3,838 16 6
Tragowel Plains .. .. .	2,823 14 7	1,652 4 6*	70 11 10	4,546 10 11	..	4,546 10 11
Tresco .. .. .	3,740 15 0	433 0 0	93 10 4	4,267 5 4	3,297 5 7	969 19 9
Werribee .. .. .	1,965 9 8	298 1 0*	49 2 9	2,312 13 5	..	2,312 13 5
Totals .. .. .	260,894 17 8	42,668 19 9	6,504 17 5	310,068 14 10	28,785 6 0	281,283 8 10

\* Direct Contributions to Depreciation Fund—Boort, £191 16s. 1d.; Kerang, £8 13s. 10d.; Maffra-Sale, £28 9s. 4d.; Murray Valley, £535 12s. 8d.; Rochester, £201 15s. 2d.; Rodney, £365 6s. 6d.; Shepparton, £201 6s. 7d.; Swan Hill (I. and W.S.), £19 3s.; Tongala-Stanhope, £96 11s. 1d.; Tragowel Plains, £38 4s. 6d.; Werribee, £22 1s.

## URBAN DIVISIONS OF IRRIGATION AND WATER SUPPLY DISTRICTS.

Cohuna .. .. .	1,528 7 1	99 0 0	38 4 2	1,665 11 3	..	1,665 11 3
Corop .. .. .	107 16 7	6 0 0	2 13 11	116 10 6	..	116 10 6
Dingee .. .. .	157 18 5	14 0 0	3 19 0	175 17 5	..	175 17 5
Heyfield .. .. .	759 10 2	115 0 0	18 19 9	893 9 11	..	893 9 11
Leitchville .. .. .	320 6 2	45 0 0	8 0 2	373 6 4	167 1 2	206 5 2
Lockington .. .. .	820 10 9	61 0 0	20 10 3	902 1 0	4 16 2	897 4 10
Macorna .. .. .	70 2 4	26 0 0	1 15 1	97 17 5	..	97 17 5
Murrabit .. .. .	528 10 7	33 0 0	13 4 3	574 14 10	..	574 14 10
Red Cliffs .. .. .	2,839 9 1	193 0 0	70 19 9	3,103 8 10	2,625 6 10	478 2 0
Robinvale .. .. .	377 3 3	161 0 0	9 8 7	547 11 10	57 8 8	490 3 2
Stanhope .. .. .	665 11 10	35 0 0	16 12 10	717 4 8	..	717 4 8
Tallygaroopna .. .. .	145 10 4	47 6 3	3 12 9	196 9 4	..	196 9 4
Totals .. .. .	8,320 16 7	835 6 3	208 0 6	9,364 3 4	2,854 12 10	6,509 10 6

## WATERWORKS DISTRICTS.

Bellarine Peninsula .. .. .	Cr. 21,727 3 6	1,158 0 0	Cr. 543 3 7	Cr. 21,112 7 1	..	Cr. 21,112 7 1
Harcourt .. .. .	188 15 4	25 0 0	4 14 5	218 9 9	..	218 9 9
Hindmarsh .. .. .	2,672 19 1	139 0 0	61 18 10	2,873 17 11	..	2,873 17 11
Long Lake .. .. .	2,959 14 4	175 0 0	73 19 10	3,208 14 2	2,584 3 6	624 10 8
Millewa .. .. .	52,961 2 11	4,472 0 0	1,324 0 7	58,757 3 6	581 6 8	58,175 16 6
Mornington Peninsula .. .. .	6,858 19 1	1,137 0 0	171 9 6	8,167 8 7	..	8,167 8 7
Normanville .. .. .	625 5 0	205 0 0	15 12 7	845 17 7	..	845 17 7
Otway .. .. .	28,331 2 0	1,924 0 0	1,358 5 7	31,613 7 7	..	31,613 7 7
Ouyen .. .. .	3,179 19 7	188 0 0	79 10 0	3,447 9 7	..	3,447 9 7
Tyntynder .. .. .	357 9 2	21 0 0	8 18 9	387 7 11	..	387 7 11
Tyntynder North .. .. .	1,445 19 4	120 0 0	36 3 0	1,602 2 4	..	1,602 2 4
Tyrrell .. .. .	126 16 1	43 0 0	3 3 5	172 19 6	11 15 7	161 3 11
Tyrrell West .. .. .	676 2 2	40 0 0	16 18 1	733 0 3	233 10 0	499 10 3
Upper Western Wimmera .. .. .	169 1 2	..	..	169 1 2	..	169 1 2
Walepup West .. .. .	Cr. 1,629 15 6	260 0 0	Cr. 40 14 11	Cr. 1,410 10 5	135 18 8	Cr. 1,546 9 1
Western Wimmera .. .. .	7,857 3 8	595 0 0	196 8 7	8,648 12 3	610 7 11	8,038 4 4
Wimmera United .. .. .	4,869 15 0	193 0 0	121 14 10	5,184 9 10	41 13 9	5,142 16 1
Totals .. .. .	89,923 4 11	10,695 0 0	2,888 19 6	103,507 4 5	4,198 16 1	99,308 8 4

## URBAN DISTRICTS OF WATERWORKS DISTRICTS.

Allansford .. .. .	236 1 11	20 0 0	5 18 0	261 19 11	..	261 19 11
Anglesea .. .. .	2,045 18 10	95 0 0	51 3 0	2,192 1 10	..	2,192 1 10
Antwerp .. .. .	40 19 4	2 0 0	0 18 0	43 17 4	..	43 17 4
Barwon Heads and Ocean Grove .. .. .	Cr. 4,084 17 3	540 0 0	Cr. 102 2 5	Cr. 3,646 19 8	Cr. 7 6 2	Cr. 3,639 13 6
Berriwillock .. .. .	96 1 4	16 0 0	2 8 0	114 9 4	25 9 2	89 0 2
Berwick .. .. .	4,252 18 3	258 0 0	106 6 5	4,617 4 8	..	4,617 4 8
Beulah .. .. .	735 1 0	23 0 0	18 7 6	776 8 6	..	776 8 6
Birchip .. .. .	176 17 1	84 0 0	4 8 5	265 5 6	..	265 5 6

## WATER SUPPLY WORKS DEPRECIATION ACCOUNTS AS AT 30TH JUNE, 1953—continued.

District.	Balance at 1st July, 1952.	Amounts Paid into Account 1952-53.	Interest 1952-53.	Total.	Expenditure 1952-53.	Balance in Account at 30th June, 1953.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
URBAN DISTRICTS OF WATERWORKS DISTRICTS—continued.						
Birregurra .. .. .	374 8 5	104 0 0	9 7 2	487 15 7	..	487 15 7
Bittern .. .. .	506 9 11	42 0 0	12 13 3	561 3 2	..	561 3 2
Brim .. .. .	574 12 5	31 0 0	13 18 5	619 10 10	..	619 10 10
Bunyip .. .. .	2,391 7 4	108 0 0	50 15 8	2,559 3 0	..	2,559 3 0
Camperdown .. .. .	9,493 6 3	638 0 0	237 6 8	10,368 12 11	..	10,368 12 11
Carwarp .. .. .	164 3 2	6 0 0	2 17 0	173 1 0	..	173 1 0
Chelsea-Frankston .. .. .	37,251 2 4	3,732 0 0	931 5 7	41,914 7 11	4,941 3 9	36,973 4 2
Chillingollah .. .. .	163 0 5	8 0 0	3 10 2	174 10 7	120 1 0	54 9 7
Chinkapook .. .. .	170 13 1	8 0 0	3 6 9	181 19 10	..	181 19 10
Cobden .. .. .	2,294 9 3	155 0 0	57 7 3	2,506 16 6	..	2,506 16 6
Coliban .. .. .	52,960 14 6	7,691 0 0	1,324 0 4	61,975 14 10	22,637 10 5	39,938 4 5
Cranbourne .. .. .	397 14 0	70 0 0	9 18 10	477 12 10	..	477 12 10
Crib Point .. .. .	1,560 19 0	156 0 0	39 0 6	1,755 19 6	..	1,755 19 6
Culgoa .. .. .	52 11 7	18 0 0	1 6 3	71 17 10	0 15 6	71 2 4
Dandenong-Springvale .. .. .	33,080 0 1	3,529 0 0	952 0 0	42,561 0 1	11,144 7 6	31,416 12 7
Dimboola .. .. .	1,512 15 5	155 0 0	37 16 5	1,705 11 10	307 7 0	1,398 4 10
Dooen .. .. .	197 11 3	11 0 0	4 18 10	213 10 1	..	213 10 1
Dromana-Portsea .. .. .	22,401 14 6	2,011 0 0	560 0 10	24,972 15 4	..	24,972 15 4
Drysdale .. .. .	1,147 14 11	170 0 0	28 13 10	1,346 8 9	Cr. 3 0 11	1,349 9 8
Garfield .. .. .	1,695 10 11	43 0 0	42 7 9	1,780 18 8	..	1,780 18 8
Hastings .. .. .	2,528 18 8	180 0 0	63 4 6	2,772 3 2	..	2,772 3 2
Hopetoun .. .. .	1,781 1 5	61 0 0	44 10 6	1,886 11 11	..	1,886 11 11
Jeparit .. .. .	547 9 4	39 0 0	13 13 9	600 3 1	..	600 3 1
Jung Jung .. .. .	701 8 4	45 0 0	17 10 9	763 19 1	Cr. 24 10 10	788 9 11
Koondrook .. .. .	922 13 6	64 0 0	23 1 4	1,009 14 10	453 0 1	556 14 9
Lake Boga .. .. .	426 8 2	68 0 0	10 13 2	505 1 4	..	505 1 4
Lalbert .. .. .	569 11 10	42 0 0	14 4 10	625 16 8	163 19 3	461 17 5
Lascelles .. .. .	47 14 3	21 0 0	1 3 10	69 18 1	..	69 18 1
Longwarry .. .. .	2,077 17 8	148 0 0	51 18 11	2,277 16 7	..	2,277 16 7
Manangatang .. .. .	Cr. 31 10 6	33 0 0	Cr. 0 15 9	0 13 9	..	0 13 9
Marong .. .. .	693 16 4	39 0 0	17 6 11	750 3 3	..	750 3 3
Marnoo .. .. .	905 0 7	33 0 0	18 13 5	956 14 0	..	956 14 0
Merbein .. .. .	915 7 11	147 0 0	22 17 8	1,075 5 7	..	1,075 5 7
Meringur .. .. .	41 1 11	13 0 0	1 0 6	55 2 5	..	55 2 5
Minyip .. .. .	92 12 10	75 0 0	2 6 4	169 19 2	..	169 19 2
Mitaimo .. .. .	311 11 6	39 0 0	7 15 10	358 7 4	5 11 8	352 15 8
Mornington .. .. .	12,029 17 4	1,194 0 0	300 14 11	13,524 12 3	3,060 4 3	10,464 8 0
Nandaly .. .. .	52 8 6	9 0 0	1 6 2	62 14 8	..	62 14 8
Natimuk .. .. .	1,103 12 6	50 0 0	27 11 10	1,181 4 4	..	1,181 4 4
Newstead .. .. .	912 0 7	51 0 0	22 16 0	985 16 7	..	985 16 7
Nullawil .. .. .	62 0 3	10 0 0	1 11 0	73 11 3	2 13 4	70 17 11
Nyah .. .. .	489 10 9	31 0 0	12 4 9	532 15 6	..	532 15 6
Nyah West .. .. .	2,375 19 1	116 0 0	59 8 0	2,551 7 1	..	2,551 7 1
Ouyen .. .. .	Cr. 845 14 8	111 0 0	Cr. 21 2 10	Cr. 755 17 6	70 4 11	Cr. 826 2 5
Pakenham .. .. .	3,471 16 1	172 0 0	86 15 11	3,730 12 0	..	3,730 12 0
Patchewollock .. .. .	114 11 3	17 0 0	2 17 4	134 8 7	..	134 8 7
Piangil .. .. .	140 2 10	52 0 0	3 10 1	195 12 11	138 11 2	57 1 9
Portarlinton .. .. .	2,993 9 2	302 0 0	74 16 9	3,370 5 11	Cr. 4 5 3	3,374 11 2
Pyramid Hill .. .. .	796 16 11	39 0 0	19 18 5	855 15 4	..	855 15 4
Quambatook .. .. .	497 3 2	43 0 0	12 8 7	552 11 9	..	552 11 9
Queenscliff and Point Lonsdale .. .. .	2,116 14 2	1,080 0 0	52 18 4	3,249 12 6	Cr. 19 16 0	3,269 8 6
Rainbow .. .. .	1,386 15 6	48 0 0	34 13 5	1,469 8 11	..	1,469 8 11
Rupanyup .. .. .	940 0 4	57 0 0	23 10 0	1,020 10 4	129 9 8	891 0 8
Sea Lake .. .. .	1,297 16 9	75 0 0	32 8 11	1,405 5 8	344 18 8	1,060 7 0
Somerville .. .. .	1,078 3 4	80 0 0	26 19 1	1,185 2 5	..	1,185 2 5
South Frankston .. .. .	5,378 3 5	511 0 0	134 9 1	6,023 12 6	663 6 9	5,360 5 9
Speed .. .. .	283 19 3	19 0 0	7 2 0	310 1 3	131 15 9	178 5 6
Tempy .. .. .	Cr. 12 14 4	17 0 0	Cr. 0 6 4	3 19 4	Cr. 17 13 4	21 12 8
Terang .. .. .	7,554 0 8	506 0 0	188 17 0	8,248 17 8	..	8,248 17 8
Torquay .. .. .	1,769 2 0	113 0 0	44 4 6	1,926 6 6	..	1,926 6 6
Ultima .. .. .	95 0 6	36 0 0	2 7 6	133 8 0	..	133 8 0
Waitechie .. .. .	315 5 1	18 0 0	7 17 8	341 2 9	..	341 2 9
Walpeup .. .. .	121 16 2	13 0 0	3 0 11	137 17 1	14 9 1	123 8 0
Watchem .. .. .	419 16 1	35 0 0	10 9 11	465 6 0	102 13 10	362 12 2
Werrimull .. .. .	444 6 6	42 0 0	11 2 2	497 8 8	88 7 5	409 1 3
Wonthaggi .. .. .	8,321 16 8	414 0 0	208 0 11	8,943 17 7	0 18 4	8,942 19 3
Woomelang .. .. .	1,182 3 4	65 0 0	29 11 1	1,276 14 5	323 14 3	953 0 2
Woorinen .. .. .	321 11 4	16 0 0	7 1 10	344 13 2	..	344 13 2
Wycheproof .. .. .	2,279 14 4	143 0 0	56 19 10	2,479 14 2	178 12 5	2,301 1 9
Yaapeet .. .. .	101 12 10	18 0 0	2 10 10	122 3 8	..	122 3 8
Totals .. .. .	249,010 0 8	26,264 0 0	6,217 1 4	281,491 2 0	44,372 12 8	237,118 9 4
BUILDINGS.						
Buildings .. .. .	35,821 14 4	10,000 0 0	895 10 10	46,717 5 2	9,126 0 2	37,591 5 0
Totals .. .. .	35,821 14 4	10,000 0 0	895 10 10	46,717 5 2	9,126 0 2	37,591 5 0
PLANT WORKSHOPS.						
Bendigo .. .. .	5,472 14 5	1,270 0 0	136 16 4	6,879 10 9	..	6,879 10 9
Totals .. .. .	5,472 14 5	1,270 0 0	136 16 4	6,879 10 9	..	6,879 10 9
Grand Total .. .. .	649,443 8 7	91,733 6 0	16,851 5 11	758,028 0 6	89,337 7 9	668,690 12 9

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

Water Supply Works Depreciation Account.				Water Supply Works Depreciation Fund (in Treasury).						
	£	s.	d.	£	s.	d.	£	s.	d.	
Balance from 1951-52 .. ..				649,443	8	7	Investments redeemed 1952-53	119,000	0	0
Paid into Account, 1952-53 ..	90,024	6	3				Paid by Commission direct to			
Paid by Commission direct to							Fund 1952-53 .. ..	1,708	19	9
Fund, 1952-53 .. ..	1,708	19	9				Amount transferred to Fund by			
				91,733	6	0	Treasury 1952-53 .. ..			
							Interest earned in Investment			
Interest credited 1952-53 .. ..				741,176	14	7	Account 1952-53 .. ..	5,109	14	2
				16,851	5	11				
								125,818	13	11
Less Expenditure 1952-53 .. ..				758,028	0	6	Less—	£	s.	d.
				89,337	7	9	Expenditure			
				668,690	12	9	1952-53 .. ..	89,337	7	9
							Debit balance			
							as at 30th			
							June, 1952 .. ..	5,934	16	8
							Amount Inves-			
							ted by Trea-			
							sury 1952-53 .. ..			
								95,272	4	5
							Credit Balance as at 30th June, 1953 ..	30,546	9	6
							Amount at credit of Sundry Investment Account	120,000	0	0
							Amount credited to Account in			
							Commission's books — not			
							credited to Fund by Treasury			
							at 30th June, 1953 .. ..	381,317	16	3
							Add Amount paid to Revenue			
							1952-53 .. ..	90,024	6	3
								471,342	2	6
							Less Amount transferred to			
							Fund by Treasury 1952-53 ..			
								471,342	2	6
							Add—	£	s.	d.
							Total Interest			
							credited to			
							Account in			
							Commission			
							books at 30th			
							June, 1953 .. ..	115,878	18	6
							Less—			
							Amount credi-			
							ted to Fund			
							by Treasury			
							at 30th June,			
							1953 .. ..	69,076	17	9
								46,802	0	9
							Amount not credited to Fund by Treasury			
							at 30th June, 1953 .. ..	518,144	3	3
				668,690	12	9		668,690	12	9

WATER SUPPLY PLANT AND MACHINERY ACCOUNT (ACT 4761).

SUMMARY OF OPERATING TRANSACTIONS FOR YEAR ENDED 30TH JUNE, 1953.

	£	s.	d.	£	s.	d.		£	s.	d.	£	s.	d.
Balance as at 1st July, 1952 ..				67,043	0	7	Interest due for year paid to						
Amounts charged on moneys							Revenue No. 2 to 30th June,						
authorized for carrying out							1953 .. ..				46,839	18	11
construction and maintenance							Redemption paid to Revenue						
of Commission works on which							No. 9 Miscellaneous to 30th				3,903	6	8
plant and machinery were							June, 1953 .. ..						
engaged with respect to Capital							Water Supply Plant and						
Liability of £1,496,112 16s. 1d.							Machinery Depreciation Fund						
as at 30th June, 1953 .. ..							Investment in Treasury ..	80,619	0	5			
Interest .. ..	32,666	0	6				Interest on Fund Investment ..	10,047	10	0	90,666	10	5
Redemption .. ..	2,722	3	5										
Depreciation .. ..	80,443	14	11				Cost of operation Maintenance						
Cost of Operation, Maintenance,							and Repairs, &c. .. ..				303,148	16	4
Repairs .. ..	397,131	12	4				Plant and Machinery Operating						
				512,963	11	2	Account Reserve as at 30th						
Interest—Depreciation Fund In-							June, 1953 .. ..				145,495	9	5
vestment .. ..				10,047	10	0							
				590,054	1	9					590,054	1	9

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

## SUMMARY OF CAPITAL TRANSACTIONS FOR YEAR ENDED 30TH JUNE, 1953.

	£	s.	d.	£	s.	d.
<b>Plant and Machinery—</b>						
Debit Balance in Account as at 30th June, 1952 .. .. .	1,576,577	4	11			
Add—Purchases of Plant during year 1952–53 .. .. .	Cr. 46,069	5	8			
					1,530,507	19 3
<b>Deduct—</b>						
Redemption paid to Treasury 30th June, 1953 .. .. .	3,903	6	8			
Repayments to State Loans Repayment Fund .. .. .	30,491	16	6			
					34,395	3 2
Total Capital Liability .. .. .					1,496,112	16 1
<b>Note.—Interest paid to Treasury in respect to Capital Liability of Plant and Machinery Account—</b>						
	£	s.	d.			
<b>Plant and Machinery—</b>						
Payments to 30th June, 1952 .. .. .	160,213	2	2			
Amount due and paid for year 1952–53 .. .. .	46,839	18	11			
	207,053	1	1			

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

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

	£	s.	d.	£	s.	d.	£	s.	d.
Credit Balance as at 30th June, 1952 .. .. .	444,799	16	9						
<b>Add—</b>									
Proceeds from Hire of Plant .. 80,619 0 5				Balance as per Treasury General Account at 30th June, 1952 ..			96,799	16	9
				Payments to Fund during 1952–53	80,619	0 5			
				Interest credited by Treasury on Investments for year 1952–53 ..	10,047	10 0			
							90,666	10	5
<b>Add Interest credited for year 1952–53 .. .. .</b>	10,047	10	0				187,466	7	2
	90,666	10	5	<b>Less Withdrawal for replacement of plant .. .. .</b>	23,636	4 5	23,636	4	5
<b>Less Expenditure for replacement of Plant .. .. .</b>	23,636	4	5	<b>Less Amount transferred by Treasury to Investment Account, 1952–53 .. .. .</b>					
	67,030	6	0						
				Balance as per Treasury General Account at 30th June, 1953 ..			163,830	2	9
				Amount Invested in Treasury Investment Account .. .. .			348,000	0	0
	511,830	2	9				511,830	2	9

## CAPITAL EXPENDITURE.

STATEMENT OF MONEYS EXPENDED UNDER WATER SUPPLY LOAN ACTS FOR THE YEAR ENDED  
30TH JUNE, 1953.

Works.	Water Supply Loan Funds.					
	Act 5589.		Act 5661.		Total.	
	£	s. d.	£	s. d.	£	s. d.
<i>Main Supply Works, Stores, and Workshops.</i>						
Bonnie Doon, Removal of Township .. .. .	2,204	14 8	18,558	2 7	20,762	17 3
Cairn Curran Reservoir .. .. .	22,502	0 4	89,213	9 4	111,715	9 8
Central Plant Workshops—						
Golden Square .. .. .	8,279	10 8	19,981	2 2	28,260	12 10
Kerang Sub-depot .. .. .			17	4 5	17	4 5
Commission Buildings .. .. .	1,775	18 10	367	6 9	2,143	5 7
Dynon-road Storeyard .. .. .	23	4 10	340	10 2	363	15 0
East Goulburn Main Channel .. .. .	2,524	0 7	6,168	17 3	8,692	17 10
Eildon Reservoir Enlargement .. .. .	1,545,311	13 5	3,395,413	12 0	4,940,725	5 5
Eppalock Reservoir .. .. .	145	0 0	47	0 0	192	0 0
Glenelg River Works to Wimmera-Mallee Section .. .. .	Cr. 3,944	7 11	Cr. 3,839	19 1	Cr. 7,784	7 0
Glenmaggie Reservoir .. .. .	439	18 0	4,413	5 2	4,853	3 2
Goulburn Weir .. .. .			165	9 5	165	9 5
Goulburn-Waranga Channel Duplication .. .. .	51,017	4 4	132,038	12 0	183,055	16 4
Goulburn, System Enlargement Investigations .. .. .	1,782	6 10	9,294	16 5	11,077	3 3
Hawthorn Laboratory and Testing Station .. .. .	1,345	0 0	250	15 0	1,595	15 0
Hepburn's Lagoon .. .. .	2	6 8	0	3 4	2	10 0
Kow Swamp Works .. .. .	273	8 9	29	5 0	302	13 9
Lake Lonsdale Reservoir .. .. .	32	10 4	495	1 4	527	11 8
Loddon River Works .. .. .			44	3 10	44	3 10
Loddon Weir .. .. .			419	6 8	419	6 8
Plant and Machinery .. .. .	Cr. 60,228	10 6	14,159	4 10	Cr. 46,069	5 8
Pyke's Creek Reservoir .. .. .	7	0 0	579	7 2	586	7 2
River Improvements .. .. .	4	19 0	7	3 1	12	2 1
River Murray Agreement Works .. .. .	32,000	0 0	87,000	0 0	119,000	0 0
Rocklands Outlet Channel .. .. .	64,837	13 9	120,261	7 4	185,099	1 1
Rocklands Reservoir .. .. .	Cr. 2,499	10 1	26,863	12 7	24,364	2 6
Survey and Investigations .. .. .	2,976	4 3	51,626	12 4	54,602	16 7
Tarago Offtake and Main Race .. .. .	8,842	4 2	1,687	7 8	10,529	11 10
Toolando Outlet Channel .. .. .	16,430	4 6	38,682	19 9	55,113	4 3
Toolando Reservoir .. .. .	240	13 10	1,048	15 8	1,289	9 6
Torrumbarry System .. .. .			339	11 5	339	11 5
Waranga West Extension, Loddon-Avoca Section .. .. .			290	10 11	290	10 11
Waranga Western Channel to 56M. Regulator .. .. .			560	10 1	560	10 1
Waranga Western Main Channel Enlargement .. .. .	582	4 9	1,432	1 5	2,014	6 2
Water Supply Stores Suspense .. .. .	25,000	0 0	28,000	0 0	53,000	0 0
Werribee Hydraulic Research Station .. .. .	995	16 1	1,380	18 2	2,376	14 3
Wimmera Storages .. .. .	240	8 9	37	7 10	277	16 7
<i>Irrigation and Water Supply Districts.</i>						
Bacchus Marsh .. .. .	6	15 7	38	16 1	45	11 8
Boort .. .. .	826	7 5	2,572	0 5	3,398	7 10
Calivil .. .. .	172	0 5	14	16 7	186	17 0
Campaspe .. .. .	Cr. 31	15 1	87	8 7	55	13 6
Central Gippsland .. .. .	51,368	7 11	120,001	8 2	171,369	16 1
Cohuna .. .. .	731	1 2	2,556	17 11	3,287	19 1
Deakin .. .. .	12	2 4	24	1 9	36	4 1
Dingee .. .. .	52	17 1	4	8 1	57	5 2
Fish Point .. .. .	51	5 6	11	19 11	63	5 5
Katandra .. .. .	360	3 8	87	18 10	448	2 6
Kerang .. .. .	1,037	19 4	515	1 8	1,553	1 0
Koondrook .. .. .	684	1 9	781	4 3	1,465	6 0
Maffra-Sale .. .. .	596	18 9	4,065	7 3	4,662	6 0
Murray Valley .. .. .	30,040	1 10	74,670	0 1	104,710	1 11
Mystic Park .. .. .	198	19 2	478	0 0	676	19 2
North Shepparton .. .. .	3	2 4	6	13 9	9	16 1
Nyah .. .. .	221	12 3	76	18 2	298	10 5
Red Cliffs-Merbein .. .. .	557	10 0	3,321	11 6	3,879	1 6
Robinvale .. .. .	4,909	19 0	15,357	10 1	20,267	9 1
Rochester .. .. .	711	10 7	500	3 4	1,211	13 11
Rodney .. .. .	5,286	8 4	5,921	4 4	11,207	12 8
Shepparton .. .. .	4	11 1	9	7 10	13	18 11
South Shepparton .. .. .	0	14 9	0	3 6	0	18 3
Swan Hill .. .. .	557	12 3	3,525	4 5	4,082	16 8
Third Lake .. .. .	28	17 4	6	9 11	35	7 3
Tongala .. .. .	2,158	0 0	1,900	11 2	4,058	11 2
Tragowel Plains .. .. .	2,373	7 1	8,632	19 2	11,006	6 3
Tresco .. .. .	561	15 1	361	15 5	923	10 6
Werribee .. .. .	14	1 10	269	13 7	283	15 5
<i>Urban Divisions of Irrigation and Water Supply Districts.</i>						
Cohuna .. .. .	4	0 11	82	11 10	86	12 9
Heyfield .. .. .	2,820	1 0	826	18 1	3,646	19 1
Lockington .. .. .	427	2 5	263	17 3	690	19 8
Red Cliffs .. .. .	2,696	19 2	3,495	10 1	6,192	9 3
Robinvale .. .. .	608	3 6	287	15 10	895	19 4
Stanhope .. .. .	Cr. 262	12 4	Cr. 21	18 4	Cr. 284	10 8
Carried forward .. .. .	1,832,934	2 3	4,298,110	4 6	6,131,044	6 9



## CAPITAL EXPENDITURE—continued.

STATEMENT OF MONEYS EXPENDED UNDER WATER SUPPLY LOAN ACTS FOR THE YEAR ENDED  
30TH JUNE, 1953—continued.

Works.	Water Supply Loan Funds.					
	Act 5589.		Act 5661.		Total.	
	£	s. d.	£	s. d.	£	s. d.
Brought forward .. .. .	1,832,934	2 3	4,298,110	4 6	6,131,044	6 9
<i>Waterworks Districts.</i>						
Axe Creek .. .. .	0	18 3	0	10 9	1	9 0
Bellarine Peninsula (including Headworks) .. .. .	5,506	4 7	13,572	0 5	19,078	5 0
Birchip .. .. .	4	17 2	81	16 0	86	13 2
Harcourt .. .. .	3	3 3	1	17 2	5	0 5
Hindmarsh .. .. .	14	16 6	32	18 3	47	14 9
Karkaroo .. .. .	2	12 8	428	3 4	430	16 0
Kerang-North-West Lakes .. .. .	4	9 9	1	0 2	5	9 11
Loddon .. .. .	4	11 3	0	7 8	4	18 11
Long Lake .. .. .	53	14 8	2,884	2 1	2,937	16 9
Millewa .. .. .	1,305	5 3	94	11 4	1,399	16 7
Mornington Peninsula (including Headworks) .. .. .	2,035	8 2	52,470	14 11	54,506	3 1
Normanville .. .. .	10	0 7	Cr. 5	1 8	4	18 11
Otway .. .. .	2,612	19 1	6,707	3 5	9,320	2 6
Ouyen .. .. .	0	10 0	94	2 3	94	12 3
Sea Lake .. .. .	0	0 3	153	3 0	153	3 3
Tyntynder .. .. .	95	15 5	95	8 2	191	3 7
Tyntynder North .. .. .	0	10 0	425	4 2	425	14 2
Tyrell .. .. .	4	0 0	615	17 0	619	17 0
Tyrell West .. .. .	2	10 0	371	1 11	373	11 11
Upper Western Wimmera .. .. .	55	10 8	113	9 8	169	0 4
Upper Wimmera United .. .. .	130	15 9	880	1 5	1,010	17 2
Walpeup West .. .. .	..	..	124	7 1	124	7 1
Werribee .. .. .	1	3 4	24	17 1	26	0 5
West Loddon .. .. .	1	9 2	0	1 7	1	10 9
Western Wimmera .. .. .	301	17 4	743	19 0	1,045	16 4
Wimmera United .. .. .	410	14 11	2,823	6 10	3,234	1 9
Wycheproof .. .. .	Cr. 0	4 5	141	2 3	140	17 10
Wychitella .. .. .	70	10 0	960	8 11	1,030	18 11
<i>Urban Districts of Waterworks Districts.</i>						
Allansford .. .. .	20	5 4	76	11 3	96	16 7
Anglesea .. .. .	16	7 7	3	10 5	19	18 0
Barwon Heads and Ocean Grove .. .. .	..	..	301	5 10	301	5 10
Berwick .. .. .	Cr. 91	8 2	172	12 5	81	4 3
Beulah .. .. .	..	..	16	5 0	16	5 0
Birregurra .. .. .	102	0 6	51	4 1	153	4 7
Bittern .. .. .	Cr. 8	9 2	15	11 6	7	2 4
Brim .. .. .	..	..	20	18 4	20	18 4
Bunyip .. .. .	Cr. 40	18 3	75	6 8	34	8 5
Camperdown .. .. .	506	16 11	2,280	11 11	2,787	8 10
Chelsea-Frankston .. .. .	1,304	11 2	11,229	16 10	12,534	8 0
Cobden .. .. .	103	1 3	512	16 2	615	17 5
Coliban .. .. .	14,764	1 9	44,347	8 2	59,111	9 11
Cranbourne .. .. .	Cr. 40	18 9	311	19 3	271	0 6
Crib Point .. .. .	Cr. 41	3 9	75	16 11	34	13 2
Dandenong-Springvale .. .. .	8,533	9 9	17,689	16 0	26,223	5 9
Dimboola .. .. .	153	5 3	12	15 0	166	0 3
Dromana-Portsea .. .. .	Cr. 1,192	8 8	2,079	6 7	886	17 11
Drysdale .. .. .	..	..	2	12 9	2	12 9
Garfield .. .. .	Cr. 34	2 3	62	16 3	28	14 0
Hastings .. .. .	Cr. 33	15 7	96	15 6	62	19 11
Hopetoun .. .. .	..	..	54	3 4	54	3 4
Jung Jung .. .. .	0	10 0	..	..	0	10 0
Koondrook .. .. .	308	0 0	25	13 4	333	13 4
Lalbert .. .. .	393	0 0	67	15 4	460	15 4
Lascelles .. .. .	..	..	10	16 8	10	16 8
Longwarry .. .. .	Cr. 87	3 9	160	10 11	73	7 2
Manangatang .. .. .	2,712	5 1	714	3 6	3,426	8 7
Marong .. .. .	0	7 10	0	4 7	0	12 5
Merbein .. .. .	0	10 0	..	..	0	10 0
Minyip .. .. .	0	10 0	216	9 2	216	19 2
Mornington .. .. .	122	4 9	2,103	10 8	2,225	15 5
Nyah .. .. .	2	17 0	0	5 0	3	2 0
Nyah West .. .. .	57	4 5	12	7 8	69	12 1
Ouyen .. .. .	..	..	66	9 3	66	9 3
Pakenham .. .. .	Cr. 153	8 8	293	10 0	140	1 4
Patchewollock .. .. .	..	..	5	8 4	5	8 4
Portarlington .. .. .	46	13 5	101	15 6	148	8 11
Pyramid Hill .. .. .	119	18 8	10	0 0	129	18 8
Queenscliff-Point Lonsdale .. .. .	136	13 11	160	3 2	296	17 1
Rainbow .. .. .	..	..	16	5 0	16	5 0
Sea Lake .. .. .	..	..	1,496	5 9	1,496	5 9
Somerville .. .. .	Cr. 27	16 2	51	4 2	23	8 0
Carried forward .. .. .	1,873,221	7 3	4,466,949	16 10	6,340,171	4 1

CAPITAL EXPENDITURE—continued.

STATEMENT OF MONEYS EXPENDED UNDER WATER SUPPLY LOAN ACTS FOR THE YEAR ENDED  
30TH JUNE, 1953—continued.

Works.	Water Supply Loan Funds.					
	Act 5589.			Act 5661.		
	Total.			Total.		
	£	s.	d.	£	s.	d.
Brought forward .. .. .	1,873,221	7	3	4,466,949	16	10
Urban Districts of Waterworks Districts—continued.						
South Frankston .. .. .	Cr.	241	18	4,515	19	5
Speed .. .. .				10	16	8
Tempy .. .. .				10	16	8
Terang .. .. .	224	19	1	943	9	10
Torquay .. .. .	15	2	9	465	13	10
Werrimull .. .. .	175	11	0	14	13	4
Wontahggi .. .. .	53	4	1	269	18	9
Woorinen .. .. .	0	10	0	37	16	5
Wycheproof .. .. .	82	10	10	434	19	1
Drainage District.						
Carrum .. .. .	40	2	8	6,940	2	1
Flood Protection Districts.						
Cardinia .. .. .	74	9	0	18	17	0
Lower Koo-wee-rup .. .. .	1,265	5	2	8,781	19	3
Works under General Supervision of Commission.						
Waterworks Trusts and Local Governing Bodies .. .. .	207,408	18	5	302,591	1	7
River Improvement Trusts .. .. .	6,923	12	4	29,129	18	1
Latrobe Valley Drainage .. .. .	3,142	17	11	6,408	13	0
Totals .. .. .	2,092,386	12	0	4,827,524	11	10

COUNTRY SEWERAGE AUTHORITIES.

Country Sewerage Loan and Application Act 5256—Expenditure for year ended 30th June, 1953 .. .. .	874	9	10
Treasurer's Advance .. .. .	79,125	10	2
	80,000	0	0

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## LOAN CAPITAL ACCOUNTS

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C.—HEADWORKS.

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

	£	s.	d.	£	s.	d.	£	s.	d.
<b>Goulburn and Loddon Storages—</b>									
Investigations .. .. .	6,534	7	4						
Eildon Reservoir .. .. .	1,863	063	1						
Eildon Reservoir Enlargement including Bonnie Doon (Township Removal) (Under construction—Not Apportioned to Districts) .. .. .	14,697	423	18						
Waranga Reservoir Enlargement .. .. .	610	352	17						
Laanecoorie Weir Improvements .. .. .	2,509	9	3						
Cairn Curran Reservoir (Under construction—Not Apportioned to Districts) .. .. .	2,125	581	15						
	19,305	465	9						
<b>Goulburn Main Channels—</b>									
East Goulburn Main .. .. .	385	528	10						
Goulburn-Waranga .. .. .	6,922	8	4						
Goulburn-Waranga Duplication (Under construction—Not Apportioned to Districts) .. .. .	453	101	10						
Waranga-Western Main .. .. .	1,048	664	16						
Waranga-Western Main Channel Enlargement (Not Apportioned to Districts) .. .. .	2,014	6	2						
Main Distributaries .. .. .	11,665	9	5						
Goulburn System Enlargement Investigations (Not Apportioned to Districts) .. .. .	11,077	3	3						
	1,918	974	5						
	21,224	439	14						
	99,530	16	8						
	21,124	908	17						
<b>Total Goulburn and Loddon Works</b>									
<i>Less Debited to Wimmera-Mallee ..</i>									
<b>Bacchus Marsh and Werribee Schemes—</b>									
Ballan Tunnel .. .. .									
Pykes Creek Reservoir .. .. .									
Melton Reservoir .. .. .									
Lerdenderg River Flats .. .. .									
	21,677	14	8						
	144,130	14	11						
	99,985	6	6						
	330	0	8						
	266,123	16	9						
<b>Bellarine Peninsula Waterworks District (exclusive of cost of Urban Reticulation)</b>									
<i>Less Redemption paid to Revenue ..</i>									
	647,049	6	5						
	1,887	5	1						
	645,162	1	4						
<b>Mornington Peninsula Waterworks District (exclusive of (a) cost of Distributary Works and Urban Reticulation, (b) Tarago Works)</b>									
<i>Less Redemption paid to Revenue ..</i>									
	1,172,284	2	2						
	2,331	0	11						
	1,169,953	1	3						
	599,970	19	10						
	709,132	7	0						
<b>Tarago Works</b>									
<b>Maffra-Sale Scheme—Glenmaggie Reservoir (includes Expenditure on Proposed Enlargement, £22,493 12s. 1d.—Not Apportioned to Districts)</b>									
River Murray Agreement Works (Victorian Contributions under River Murray Waters Acts) .. .. .									
River Murray Agreement Works—Hume Reservoir Enlargement, &c. (Not Apportioned to Districts) .. .. .									
River Murray State Works—Surveys, &c. .. .. .									
Otway Waterworks District (exclusive of cost of Urban Reticulation) .. .. .									
<i>Less Redemption Paid to Revenue ..</i>									
	318,239	1	10						
	3,580	9	11						
	314,658	11	11						
<b>Wimmera-Mallee—</b>									
Main Channels and Storages inclusive of £99,530 16s. 8d. from Goulburn Works .. .. .									
Glenelg River Development Works (Under Construction—Not Apportioned to Districts) .. .. .									
	975,985	19	10						
	2,827,994	16	9						
	31,856	143	4						
	11,492	456	1						
	20,363	687	3						
	27,100	203	10						
<b>Carried forward ..</b>									

LOAN CAPITAL ACCOUNTS—continued.

Totals at  
30th June, 1953.  
£ s. d.  
27,100,203 10 10

Brought forward ..

Name of District.	Loan Capital Expenditure.						Allotted to District.	Capital Expenditure borne by the State Account.					
	Headworks.			Distributory Works.				Headworks.			Distributory Works.		
	£	s.	d.	£	s.	d.		£	s.	d.	£	s.	d.
1. Bacchus Marsh	83,426	15	1	104,426	3	7	..	83,426	15	1	104,426	3	7
2. Boort	169,726	10	10	121,045	12	1	..	169,726	10	10	121,045	12	1
3. Calivil	81,199	14	8	118,596	13	1	..	81,199	14	8	118,596	13	1
4. Campaspe	4,999	5	2	61,752	0	5	..	4,999	5	2	61,752	0	5
5. Central Gippsland (under construction)	..	..	..	1,448,786	14	1	..	..	..	..	1,448,786	14	1
6. Cohuna	500,500	8	1	373,465	17	4	..	500,500	8	1	373,465	17	4
7. Deakin	36,690	1	3	62,147	2	5	..	36,690	1	3	62,147	2	5
8. Dingo	57,932	18	11	94,370	11	0	..	57,932	18	11	94,370	11	0
9. Fish Point	21,707	0	0	40,174	5	6	..	21,707	0	0	40,174	5	6
10. Katandha	77,319	10	10	112,999	9	3	..	77,319	10	10	112,999	9	3
11. Kerang	251,516	0	0	390,319	0	1	..	251,516	0	0	390,319	0	1
12. Koondrook	247,864	0	0	241,101	10	1	..	247,864	0	0	241,101	10	1
13. Maffra-Sale	897,294	4	6	675,868	4	7	..	897,294	4	6	675,868	4	7
14. Murray Valley	39,419	19	8	2,264,940	11	11	..	39,419	19	8	2,264,940	11	11
15. Mystic Park	163,196	19	10	215,036	14	7	..	163,196	19	10	215,036	14	7
16. North Shepparton	74,857	0	0	202,437	7	4	..	74,857	0	0	202,437	7	4
17. Nyah	478,912	0	0	1,126,477	12	8	..	478,912	0	0	1,126,477	12	8
18. Red Cliffs-Merbein	..	..	..	581,663	4	10	..	..	..	..	581,663	4	10
19. Robinvale (under construction)	..	..	..	366,665	10	4	..	..	..	..	366,665	10	4
20. Rochester	839,568	3	11	1,206,233	14	3	..	839,568	3	11	1,206,233	14	3
21. Rodney	902,563	13	10	698,546	13	5	..	902,563	13	10	698,546	13	5
22. Shepparton	296,153	16	11	214,240	18	2	..	296,153	16	11	214,240	18	2
23. South Shepparton	60,726	7	10	61,073	17	2	..	60,726	7	10	61,073	17	2
24. Swan Hill	293,491	17	0	198,001	2	5	..	293,491	17	0	198,001	2	5
25. Third Lake	25,637	0	0	26,176	4	11	..	25,637	0	0	26,176	4	11
26. Tongala-Stanhope	640,940	1	8	325,837	14	3	..	640,940	1	8	325,837	14	3
27. Tragowel Plains	504,638	0	11	303,274	4	8	..	504,638	0	11	303,274	4	8
28. Treco	25,960	0	0	101,420	3	9	..	25,960	0	0	101,420	3	9
29. Werribee	182,697	1	8	130,459	12	5	..	182,697	1	8	130,459	12	5
Totals	7,645,577	7	6	10,352,083	4	2	..	7,645,577	7	6	10,352,083	4	2

17,997,660 11 8

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

1. Cohuna ..	..	10,357 11 2	10,357 11 2	3,160 3 8	7,197 7 6	7,197 7 6
2. Corop ..	..	231 15 6	231 15 6	..	231 15 6	231 15 6
3. Dingee ..	..	1,674 3 11	1,674 3 11	..	1,674 3 11	1,674 3 11
4. Heyfield ..	..	28,983 15 3	28,983 15 3	..	28,983 15 3	28,983 15 3
5. Leitchville ..	..	4,188 15 4	4,188 15 4	..	4,188 15 4	4,188 15 4
6. Lockington ..	..	3,179 14 1	3,179 14 1	118 17 2	3,060 16 11	3,060 16 11
7. Macorna ..	..	1,487 18 0	1,487 18 0	..	1,487 18 0	1,487 18 0
8. Murrabit ..	..	1,030 18 3	1,030 18 3	..	1,030 18 3	1,030 18 3
9. Red Cliffs ..	..	38,173 5 7	38,173 5 7	1,624 2 5	36,549 3 2	36,549 3 2
10. Robinvale ..	..	12,686 8 7	12,686 8 7	..	12,686 8 7	12,686 8 7
11. Stanhope ..	..	5,591 14 4	5,591 14 4	..	5,591 14 4	5,591 14 4
12. Tallygaropna ..	..	4,087 0 2	4,087 0 2	..	4,087 0 2	4,087 0 2
Totals ..	..	111,673 0 2	111,673 0 2	4,903 3 3	106,769 16 11	106,769 16 11

111,673 0 2

F.—WATERWORKS DISTRICTS.

1. Axe Creek ..	..	4,978 1 1	4,978 1 1	83,187 4 2	4,978 1 1	4,978 1 1
2. Bellarine Peninsula ..	..	467,493 14 6	467,493 14 6	..	..	384,306 10 4
3. Birchip ..	..	38,170 8 7	38,170 8 7	..	104,416 16 11	142,587 5 6
4. East Loddon ..	..	..	..	..	2,287 14 1	2,287 14 1
5. Harcourt ..	..	..	..	..	17,262 4 2	17,262 4 2
6. Hindmarsh ..	..	4,248 18 11	4,248 18 11	..	16,020 9 4	20,869 8 3
7. Karkaroc ..	..	99,108 15 6	99,108 15 6	..	223,447 7 4	322,556 2 10
8. Kerang North-West Lakes	..	..	..	..	4,069 17 9	4,069 17 9
9. Loddon ..	..	..	..	..	3,145 12 1	3,145 12 1
10. Long Lake ..	..	..	..	..	117,688 17 4	183,187 12 4
11. Millewa ..	..	..	..	..	581,224 8 6	722,372 8 6
12. Mornington Peninsula	..	..	..	..	10,280 10 3	172,503 2 9
13. Newstead ..	..	..	..	63,671 1 11	4,636 6 10	4,636 6 10
14. Normanville ..	..	..	..	..	52,294 2 7	52,294 2 7
15. Otway ..	..	..	..	89,289 14 0	..	135,764 17 11
16. Ouyen ..	..	..	..	..	180,989 15 7	277,634 3 9
17. Sea Lake ..	..	..	..	..	155,400 17 5	204,461 15 6
18. Tyntynder ..	..	..	..	..	206,209 13 4	298,729 14 11
19. Tyntynder North	..	..	..	..	123,388 10 2	154,762 7 11
20. Tyrell ..	..	..	..	..	166,984 11 4	250,490 7 10
21. Tyrell West ..	..	..	..	..	109,102 2 9	166,304 0 9
22. Upper Western Wimmera	..	..	..	..	62,249 4 2	91,132 3 2
23. Upper Wimmera United	..	..	..	..	127,024 17 8	127,024 17 8
24. Walepup West ..	..	..	..	..	36,082 5 0	36,082 5 0
25. Warribee ..	..	..	..	..	12,521 1 9	12,521 1 9
26. West Loddon ..	..	..	..	..	9,638 2 10	9,638 2 10
27. Western Wimmera	..	..	..	..	266,819 7 1	385,869 18 1
28. Wimmera United	..	..	..	..	218,106 15 10	318,180 8 9
29. Wycheproof ..	..	..	..	..	180,686 17 4	245,998 0 3
30. Wychitella ..	..	..	..	..	141,273 7 4	141,273 7 4
Totals ..	..	2,032,432 10 11	2,032,432 10 11	236,148 0 1	3,093,496 1 11	4,892,924 2 6

Carried forward ..

50,338,609 5 3

5,129,072 2 7

LOAN CAPITAL ACCOUNTS—continued.

Total at  
30th June, 1953.  
£ 50,338,609 5 3  
s. d.

Name of District.	Loan Capital Expenditure.			Allotted to District.			Capital Expenditure borne by the State Account.			Brought forward		
	Headworks.			Distributory Works.			Headworks.			Distributory Works.		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
1. Allansford .. ..	1,600	0	0	1,592	14	1	807	7	4	1,544	1	3
2. Anglesea .. ..	2,959	10	3	12,531	19	1	29	10	1	2,930	0	2
3. Antwerp .. ..	..	..	..	705	5	0	252	7	4	452	17	8
4. Barwon Heads and Ocean Grove ..	43,748	12	1	22,473	14	2	7,902	14	8	15,535	9	10
5. Berriwillcock .. ..	..	..	..	7,796	7	1	3	5	5	7,793	1	8
6. Berwick .. ..	24,465	11	3	10,590	8	4	3,031	7	9	7,205	7	7
7. Beulah .. ..	..	..	..	7,676	13	10	2	13	2	7,674	0	8
8. Birchip .. ..	..	..	..	16,141	16	0	..	..	..	16,141	16	0
9. Biregura .. ..	1,963	0	0	33,595	7	8	..	..	..	33,595	7	8
10. Bittern .. ..	2,793	8	6	1,381	9	10	15	11	3	1,365	18	7
11. Brim .. ..	..	..	..	9,390	16	0	332	8	6	9,058	7	6
12. Bunyip .. ..	7,213	13	9	2,649	19	5	21	9	6	2,628	9	11
13. Camperdown .. ..	46,469	0	0	55,995	15	5	54,024	15	1	8,512	19	1
14. Carwarp .. ..	..	..	..	635	19	0	..	..	..	635	19	0
15. Chelsea-Frankston .. ..	582,200	5	3	258,608	17	5	132,327	12	11	192,050	19	7
16. Chillingollah .. ..	..	..	..	2,482	1	3	..	..	..	2,482	1	3
17. Chinkapook .. ..	..	..	..	2,816	12	8	..	..	..	2,816	12	8
18. Cobden .. ..	9,213	0	0	18,236	15	1	12,654	7	3	5,582	7	10
19. Coliban .. ..	..	..	..	2,467,724	8	7	293,199	19	6	2,174,524	9	1
20. Cranbourne .. ..	6,373	17	4	4,721	15	7	590	5	9	4,131	9	10
21. Crib Point .. ..	11,271	0	3	4,818	4	1	2,282	4	3	2,535	19	10
22. Culgoa .. ..	..	..	..	4,403	5	7	2,239	16	5	2,163	9	2
23. Dandenong-Springvale .. ..	514,466	19	1	197,623	8	1	160,542	13	10	141,544	9	5
24. Dimboola .. ..	..	..	..	19,790	9	11	10,690	2	9	9,100	7	2
25. Doon .. ..	..	..	..	698	0	0	16	16	0	681	4	0
26. Dromana-Portsea .. ..	205,464	4	0	136,625	19	4	3,916	18	8	128,690	7	11
27. Drysdale .. ..	13,529	11	2	8,749	18	3	38	2	0	8,750	6	11
28. Garfield .. ..	4,401	3	4	1,381	4	9	19	8	1	1,532	4	1
29. Garvoc .. ..	..	..	..	51	4	8	..	..	..	51	4	8
30. Hastings .. ..	11,048	2	9	8,362	16	1	..	..	..	8,356	11	3
31. Hopetoun .. ..	..	..	..	10,857	15	1	23	15	4	10,833	19	9
32. Jeparit .. ..	..	..	..	13,641	14	4	5,653	5	8	7,988	8	8
33. Jung Jung .. ..	..	..	..	4,613	11	8	..	..	..	4,611	19	2
34. Koondrook .. ..	..	..	..	6,503	18	5	..	..	..	6,503	18	5
35. Lake Boga .. ..	..	..	..	6,575	9	4	95	11	3	6,479	18	1
36. Lalbert .. ..	..	..	..	5,102	9	11	98	11	10	5,003	18	1
37. Lascelles .. ..	..	..	..	4,504	13	0	16	18	0	4,487	15	0
38. Longwarry .. ..	13,580	16	1	3,993	10	5	9,085	12	0	3,019	17	10
39. Manangatang .. ..	..	..	..	9,078	11	10	1,635	6	3	7,443	5	7
40. Maroo .. ..	..	..	..	4,153	5	3	1,333	9	2	2,819	16	1
41. Marong .. ..	..	..	..	2,129	10	2	22	18	10	2,106	11	4

G.—URBAN DISTRICTS OF WATERWORKS DISTRICTS.



42. Merbein .. .. .	24,444 9 4	24,444 9 4	4,029 19 8	..	20,414 9 8
43. Meringur .. .. .	4,390 14 6	4,390 14 6	4 6 8	..	4,386 7 10
44. Minyip .. .. .	10,569 3 9	10,569 3 9	2,996 5 6	..	7,572 18 3
45. Mitiamo .. .. .	2,410 16 2	2,410 16 2	..	..	2,410 16 2
46. Mornington .. .. .	54,250 2 4	162,434 1 3	52,670 1 6	83,473 0 6	109,763 19 9
47. Munday .. .. .	2,349 13 8	2,349 13 8	3 5 0	..	2,346 8 8
48. Nar-nar-noon and Tynong .. .. .	140 9 1	140 9 1	..	..	140 9 1
49. Natimuk .. .. .	4,933 4 8	4,933 4 8	4,057	..	875 5 8
50. Newstead .. .. .	7,873 19 8	7,873 19 8	1,763 13 10	..	6,110 5 10
51. Nullawil .. .. .	3,757 9 2	3,757 9 2	280 16 6	..	3,476 12 8
52. Nyah .. .. .	965 18 2	965 18 2	..	..	965 18 2
53. Nyah West .. .. .	6,332 9 10	6,332 9 10	..	..	6,332 9 10
54. Officer .. .. .	..	..	..	..	..
55. Ouyen .. .. .	21,673 8 7	21,673 8 7	59 16 11	..	21,613 11 8
56. Pakenham .. .. .	10,573 9 5	24,514 10 2	9,502 0 11	9,957 1 5	15,012 9 3
57. Patchewollock .. .. .	4,358 4 2	4,358 4 2	1 12 6	..	4,356 11 8
58. Piarigil .. .. .	7,472 12 1	7,472 12 1	..	..	7,472 12 1
59. Portarlinton .. .. .	16,381 17 6	34,418 5 9	77 14 6	17,958 13 9	16,381 17 6
60. Pyramid Hill .. .. .	7,127 9 7	7,127 9 7	1,268 1 10	..	5,859 7 9
61. Quambatook .. .. .	4,864 11 7	4,864 11 7	3 4 11	..	4,861 6 8
62. Queenscliff and Point Lonsdale .. .. .	31,975 6 7	123,585 19 10	16,030 0 10	84,817 17 2	107,555 19 0
63. Rainbow .. .. .	11,559 2 10	11,559 2 10	7,462 11 8	..	4,096 11 2
64. Rupanyup .. .. .	10,846 7 6	10,846 7 6	1,105 3 2	..	6,741 4 4
65. Sea Lake .. .. .	9,361 9 11	9,361 9 11	1,533 3 4	..	7,828 6 7
66. Somerville .. .. .	3,165 19 9	8,242 18 10	4,581 15 3	3,187 9 2	3,661 3 7
67. South Frankston .. .. .	23,391 1 5	60,084 7 6	25,391 19 1	26,451 16 1	31,692 8 5
68. Speed .. .. .	2,913 4 8	2,913 4 8	0 17 9	..	2,912 6 11
69. Tempy .. .. .	2,654 14 8	2,654 14 8	17 6 7	..	2,637 8 1
70. Terang .. .. .	28,976 18 5	61,298 18 5	27,629 18 8	28,860 4 6	33,668 19 9
71. Torquay .. .. .	15,856 4 11	21,676 16 9	143 0 6	5,746 8 3	21,533 16 3
72. Ultima .. .. .	11,037 8 4	11,037 8 4	16 19 3	..	11,020 9 1
73. Waitehie .. .. .	2,520 14 4	2,520 14 4	..	..	2,520 14 4
74. Walpeup .. .. .	2,551 19 6	2,551 19 6	24 3 5	..	2,527 16 1
75. Watchem .. .. .	5,116 8 6	5,116 8 6	122 18 7	..	4,993 9 11
76. Werrimull .. .. .	9,224 3 11	9,224 3 11	1 12 6	..	9,222 11 5
77. Wonthaggi .. .. .	76,719 11 9	76,719 11 9	9,021 0 8	..	67,698 11 1
78. Woomelang .. .. .	9,249 1 1	9,249 1 1	15 6 8	..	9,233 14 5
79. Woorinen .. .. .	6,892 13 2	6,892 13 2	577 15 5	..	6,314 17 9
80. Wycheproof .. .. .	21,786 7 1	21,786 7 1	..	..	21,786 7 1
81. Y aspeet .. .. .	2,334 11 0	2,334 11 0	3 14 4	..	2,330 16 8
Totals .. .. .	1,814,446 3 3	3,874,411 18 3	876,313 10 1	1,581,440 6 0	3,231,104 5 5
1. Cardinia .. .. .	116,120 16 11	116,120 16 11	..	..	116,120 16 11
2. Kanyapella .. .. .	3,888 11 10	3,888 11 10	..	..	3,888 11 10
3. Lower Koo-wee-rup .. .. .	388,649 11 11	388,649 11 11	..	..	388,649 11 11
4. Loch Garry .. .. .	18,621 18 11	18,621 18 11	..	..	18,621 18 11
Totals .. .. .	527,280 19 7	527,280 19 7	..	..	527,280 19 7

## LOAN CAPITAL ACCOUNTS—continued.

[illegible]

SUMMARY STATEMENT OF LOAN CAPITAL ACCOUNTS AS AT 30th JUNE, 1953.

Reference to Preceding Statement.	Works.	Capital Works and Charges and State Works of Water Supply.	Headworks.	Distributary Works.	Total Loan Capital Expenditure.	Deduct Redemption Paid.	Net Loan Capital.	At Debit of Authorities and Borne by Districts.	Capital Expenditure Borne by the State.
		£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
A	Capital Works and Charges	5,927,231 0 8	..	..	5,927,231 0 8	447,118 9 0	5,480,112 11 8	1,513,856 13 3	3,966,255 18 5
B	State Works of Water Supply	1,256,825 19 10	..	..	1,256,825 19 10	3,422 3 9	1,256,403 16 1	..	1,256,403 16 1
C	Headworks Costs not yet apportioned	..	..	..	..	42,199 1 2	20,363,687 3 1	..	20,363,687 3 1
D	Irrigation and Water Supply Districts, inclusive of Headworks Costs	..	..	..	..	192,315 13 10	17,997,660 11 8	..	17,997,660 11 8
E	Urban Divisions of Irrigation Districts	..	..	..	..	2,459 2 2	111,673 0 2	4,903 3 3	106,769 16 11
F	Waterworks Districts, inclusive of Headworks Costs	..	..	..	..	94,885 7 3	5,129,072 2 7	236,148 0 1	4,892,924 2 6
G	Urban Districts of Waterworks Districts, inclusive of Headworks Costs	..	..	..	..	83,540 16 2	5,688,858 1 6	876,313 10 1	4,812,544 11 5
H	Flood Protection Districts	..	..	..	..	9,556 2 7	527,280 19 7	..	527,280 19 7
I	Drainage District	..	..	..	..	708 14 5	33,822 1 10	..	33,822 1 10
	Total Works under control of Commission	7,187,057 0 6	32,025,384 17 9	18,252,334 0 3	57,464,775 18 6	876,205 10 4	56,588,570 8 2	2,631,221 6 8	53,957,349 1 6
J	Waterworks Trusts and Local Governing Bodies	..	..	..	7,856,005 15 2	1,044,257 8 10	6,811,748 6 4	3,640,813 8 7	3,170,934 17 9
K	River Improvement Trusts	..	..	..	69,487 15 2	247 15 9	69,239 19 5	19,161 5 10	50,078 13 7
L	Latrobe Valley Drainage	..	..	..	18,920 14 9	..	18,920 14 9	18,920 14 9	..
		..	..	..	65,409,190 3 7	1,920,710 14 11	63,488,479 8 8	6,310,116 15 10	57,178,362 12 10

NOTE.—District Headworks Costs formerly included in Item "C" are now shown in Items "D," "F," and "G."

RECONCILIATION STATEMENT.

COUNTRY WATER SUPPLY AND STATE DEVELOPMENT ACCOUNTS IN THE BOOKS OF THE TREASURY WITH CAPITAL ACCOUNTS IN THE BOOKS OF THE COMMISSION AS AT 30th JUNE, 1953.

	Total.	Water Supply.	State Development Account.
	£ s. d.	£ s. d.	£ s. d.
Net Loan Liability as per Treasurer's Finance Statement (page 75)	58,634,053 14 5	6,339,354 17 0	52,294,698 17 5
Add—			
Cost of Geelong Works. "Finance" (page 76)	136,766 14 6	..	136,766 14 6
National Debt Sinking Fund contributions from Consolidated Revenue pursuant to the provisions of the <i>Commonwealth and States Financial Agreement Act 1927</i> , No. 3554, as amended by Act No. 5051, 1944. "Finance" (Page 75). (These amounts not credited to Districts and Works excepting reconup contributions shown below)	5,319,590 11 0	600,079 1 0	4,719,511 10 0
National Debt Sinking Fund contributions in respect of Geelong Works. "Finance" (Page 76)	27,385 10 11	..	27,385 10 11
	64,117,796 10 10	6,939,433 18 0	57,178,362 12 10
Less—			
Redemption reconup contributions paid into Consolidated Revenue by Commission Districts and Works, Waterworks Trusts, &c.	629,317 2 2	629,317 2 2	..
Totals of amounts at debit of Authorities and Districts and the Capital Expenditure Borne by the State Account in the books of the Commission	63,488,479 8 8	6,310,116 15 10	57,178,362 12 10

## CAPITAL EXPENDITURE.

STATEMENT OF CAPITAL EXPENDITURE ON WORKS OF COUNTRY WATER SUPPLY, AS FROM THE DATE OF INCORPORATION OF THE STATE RIVERS AND WATER SUPPLY COMMISSION (1ST MAY, 1906) TO 30TH JUNE, 1953.

Year ended 30th June.	Total Expenditure and or Water Supply Loans Application Acts.				Total Capital Expenditure by Commission from Unemployment Relief Funds.				Total Capital Expenditure under Water Supply Loans Application Acts and from Unemployment Relief Funds.			
	During Year.		Progressive Total at Close of Year.		During Year.		Progressive Total at Close of Year.		During Year.		Progressive Total at Close of Year.	
	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.
1906 .. ..	..	..	5,885,066	12 4a	..	..	..	..	..	..	5,885,066	12 4a
1907 .. ..	161,346	7 4	6,046,412	19 8	..	..	..	..	161,346	7 4	6,046,412	19 8
1908 .. ..	276,582	17 0	5,881,843	15 0b	..	..	..	..	276,582	17 0	5,881,843	15 0b
1909 .. ..	313,615	11 3	6,195,459	6 3c	..	..	..	..	313,615	11 3	6,195,459	6 3c
1910 .. ..	286,823	8 3	6,482,282	14 6	..	..	..	..	286,823	8 3	6,482,282	14 6
1911 .. ..	311,709	7 4	6,793,992	1 10	..	..	..	..	311,709	7 4	6,793,992	1 10
1912 .. ..	259,281	0 11	7,053,273	2 9	..	..	..	..	259,281	0 11	7,053,273	2 9
1913 .. ..	267,560	1 11	7,320,833	4 8	..	..	..	..	267,560	1 11	7,320,833	4 8
1914 .. ..	229,126	17 0	7,549,960	1 8	..	..	..	..	229,126	17 0	7,549,960	1 8
1915 .. ..	304,766	9 9	7,854,726	11 5	..	..	..	..	304,766	9 9	7,854,726	11 5
1916 .. ..	347,134	18 5	8,201,861	9 10	..	..	..	..	347,134	18 5	8,201,861	9 10
1917 .. ..	302,893	11 7	8,504,755	1 5	..	..	..	..	302,893	11 7	8,504,755	1 5
1918 .. ..	302,954	14 7	8,807,709	16 0	..	..	..	..	302,954	14 7	8,807,709	16 0
1919 .. ..	412,267	8 3	9,219,977	4 3	..	..	..	..	412,267	8 3	9,219,977	4 3
1920 .. ..	570,028	2 4	9,790,005	6 7	..	..	..	..	570,028	2 4	9,790,005	6 7
1921 .. ..	692,658	14 1	10,482,664	0 8	..	..	..	..	692,658	14 1	10,482,664	0 8
1922 .. ..	968,047	8 8	11,450,711	9 4	..	..	..	..	968,047	8 8	11,450,711	9 4
1923 .. ..	1,210,484	8 9	12,661,195	18 1	..	..	..	..	1,210,484	8 9	12,661,195	18 1
1924 .. ..	1,415,109	1 5	14,076,304	19 6	..	..	..	..	1,415,109	1 5	14,076,304	19 6
1925 .. ..	1,471,566	4 7	15,547,871	4 1	..	..	..	..	1,471,566	4 7	15,547,871	4 1
1926 .. ..	1,521,533	5 9	17,069,404	9 10	..	..	..	..	1,521,533	5 9	17,069,404	9 10
1927 .. ..	1,541,900	16 9	18,611,305	6 7	..	..	..	..	1,541,900	16 9	18,611,305	6 7
1928 .. ..	1,792,407	15 9	20,403,713	2 4	..	..	..	..	1,792,407	15 9	20,403,713	2 4
1929 .. ..	1,516,022	14 3	21,919,735	16 7	..	..	..	..	1,516,022	14 3	21,919,735	16 7
1930 .. ..	1,208,567	12 6	23,128,303	9 1	..	..	..	..	1,208,567	12 6	23,128,303	9 1
1931 .. ..	696,146	5 2	23,824,449	14 3	..	..	142,703	0 0d	838,849	5 2	23,967,152	14 3
1932 .. ..	351,118	15 7	24,175,568	9 10	2,745	0 0	145,448	0 0	353,863	15 7	24,321,016	9 10
1933 .. ..	488,072	7 9	24,663,640	17 7	138,281	0 0	283,729	0 0	626,353	7 9	24,947,369	17 7
1934 .. ..	315,870	14 7	24,979,511	12 2	209,284	0 0	493,013	0 0	525,154	14 7	25,472,524	12 2
1935 .. ..	260,736	3 5	25,240,247	15 7	325,340	0 0	818,353	0 0	586,076	3 5	26,058,600	15 7
1936 .. ..	285,473	8 2	25,525,721	3 9	371,866	0 0	1,190,219	0 0	657,339	8 2	26,715,940	3 9
1937 .. ..	360,791	14 10	25,886,512	18 7	350,993	0 0	1,541,212	0 0	711,784	14 10	27,427,724	18 7
1938 .. ..	353,606	5 5	26,240,119	4 0	358,550	0 0	1,899,762	0 0	712,156	5 5	28,139,881	4 0
1939 .. ..	582,327	3 5	26,822,446	7 5	411,803	0 0	2,311,565	0 0	994,130	3 5	29,134,011	7 5
1940 .. ..	426,824	16 9	27,249,271	4 2	289,764	0 0	2,601,329	0 0	716,588	16 9	29,850,600	4 2
1941 .. ..	471,369	6 11	27,720,640	11 1	218,141	0 0	2,819,470	0 0	689,510	6 11	30,540,110	11 1
1942 .. ..	274,845	7 0	27,995,485	18 1	40,805	0 0	2,860,275	0 0	315,650	7 0	30,855,760	18 1
1943 .. ..	75,479	2 0	28,070,965	0 1	472	0 0	2,860,747	0 0	75,951	2 0	30,931,712	0 1
1944 .. ..	143,177	10 6	28,214,142	10 7	..	..	2,860,747	0 0	143,177	10 6	31,074,889	10 7
1945 .. ..	315,729	1 0	28,529,871	11 7	..	..	2,860,747	0 0	315,729	1 0	31,390,618	11 7
1946 .. ..	432,905	12 8	28,962,777	4 3	..	..	2,860,747	0 0	432,905	12 8	31,823,524	4 3
1947 .. ..	1,466,121	15 3	30,428,898	19 6	..	..	2,860,747	0 0	1,466,121	15 3	33,289,645	19 6
1948 .. ..	1,893,165	1 2	32,322,064	0 8	..	..	2,860,747	0 0	1,893,165	1 2	35,182,811	0 8
1949 .. ..	2,251,873	9 11	34,573,937	10 7	..	..	2,860,747	0 0	2,251,873	9 11	37,434,684	10 7
1950 .. ..	4,149,500	16 4	38,723,438	6 11	..	..	2,860,747	0 0	4,149,500	16 4	41,584,185	6 11
1951 .. ..	7,124,902	5 7	45,848,340	12 6	..	..	2,860,747	0 0	7,124,902	5 7	48,709,087	12 6
1952 .. ..	10,619,672	2 5	56,468,012	14 11	..	..	2,860,747	0 0	10,619,672	2 5	59,328,759	14 11
1953 .. ..	6,919,911	3 10	63,387,923	18 9	..	..	2,860,747	0 0	6,919,911	3 10	66,248,670	18 9

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

(b) During year ended 30th June, 1908, the Geelong Water Supply Works were sold to the Geelong Municipal Waterworks Trust. Geelong works excluded from Progressive Total, from and including year ended 30th June, 1905.

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

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

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

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

## RECONCILIATION STATEMENTS.

## (A) LOAN.

(i) “*Finance* 1952–53,” pages 74 and 75 “Country Water Supply Capital Account,” at 30th June, 1953 :—

	£	s.	d.
Expenditure from Loans .. .. .	63,387,923	18	9
(ii) <i>Annual Report</i> —			
Total Loan Expenditure, as per “Summary Statement of Loan Capital Accounts, as at 30th June, 1953” (page 115) .. .. .	65,409,190	3	7
Deduct—			
Discount and Expenses <i>less</i> Premiums, Country Water Supply (Finance 1952–53, page 75) .. .. .	1,556,879	4	11
Geelong Works, Gross Expenditure, Finance 1952–53 (page 76) .. .. .	464,386	19	11
	2,021,266	4	10
Total Loan Expenditure at 30th June, 1953, as above .. .. .	63,387,923	18	9

## (B) UNEMPLOYMENT RELIEF FUNDS.

	£	s.	d.
Expenditure from Unemployment Relief Taxation Funds .. .. .	314,362	0	0
Unemployment Relief Loan Funds (“ <i>Finance</i> , 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.

	£	s.	d.
Expenditure as at 30th June, 1952 .. .. .	128,747	11	9
Expenditure 1952–53—			
Act 5256 .. .. .	874	9	10
Treasurer’s Advance .. .. .	79,125	10	2
	80,000	0	0
Total as at 30th June, 1953 .. .. .	208,747	11	9
Expenditure at Debit of Authorities .. .. .	189,036	5	1
Amounts transferred by Order in Council to Expenditure Borne by the State Account .. .. .	19,711	6	8
	208,747	11	9

ESTIMATES 1953-54.  
**PROPOSED DISBURSEMENTS.**

	Estimated Requirements.	Amount Provided in Budget.
	£	£
Coliban Works .. .. .	43,875	43,875
Irrigation, Water Supply and Drainage Districts .. .. .	613,274	589,764
Waterworks Districts .. .. .	299,690	288,200
Flood Protection and Carrum Drainage Districts .. .. .	50,000	50,000
Salaries of Permanent and Temporary Employees* .. .. .	1,235,352	1,235,352
General Expenditure* .. .. .	330,000	330,000
Removal of Sand Drift .. .. .	115,000	100,000
River Murray Works—Contribution by State .. .. .	49,450	49,450
Pay-roll Tax .. .. .	60,000	60,250
Subsidies to Waterworks Trusts and Local Governing Bodies to enable a Reduction of 33 $\frac{1}{3}$ per cent. to be made in Water Rates .. .. .	635	635
Totals—Water Supply .. .. .	2,797,276	2,747,526
Assistance to certain Sewerage Authorities where suspension of works is being continued .. .. .	8,000	8,000
Subsidies to Sewerage Authorities in cases where the interest paid on capital liability is in excess of the rate of 3 per cent. .. .. .	26,000	26,000
Grant to Kerang Sewerage Authority in connexion with Reconditioning Works .. .. .	2,255	2,255
	2,833,531	2,783,781

\* To be apportioned over the above Districts.

**ESTIMATED RECEIPTS.**

	Amount Provided in Budget.
	£
Coliban Works .. .. .	95,000
Irrigation, Water Supply and Drainage Districts .. .. .	895,000
Waterworks Districts .. .. .	521,000
Flood Protection and Carrum Drainage Districts .. .. .	27,000
Other .. .. .	95,000
Recoup on account of amounts paid from Revenue in connexion with River Murray Commission, Loan Works, &c. .. .. .	580,000
	2,213,000
Add estimated Receipts to meet Interest—	
Waterworks Trusts and other Corporations .. .. .	124,350
Plant and Machinery, and Land .. .. .	48,000
Totals—Water Supply .. .. .	2,385,350

Estimated amount available from Revenues of Commission—

“Paying” Districts to meet Interest .. £22,000.

CONTRACTS.

STATEMENT OF CONTRACTS ENTERED INTO DURING THE YEAR ENDED 30TH JUNE, 1953.

No.	Name of Contractor.	Work and Supply.	Amount.
			£
3296	Utah Construction Limited .. ..	Construction of Town Services and subsidiary works: Eildon	600,000
3297	„ „ „ .. ..	Operation of Dining Rooms and Kitchens: Eildon ..	650,000
3298	„ „ „ .. ..	Operation and Maintenance of Township: Eildon ..	400,000
3299	„ „ „ .. ..	Construction of Township Buildings .. ..	130,000
3318	Karl Peuhler .. ..	Outlet and Control Equipment: General .. ..	74,000
3319	Maschinenfabrik Augsburg-Nuernberg ..	Outlet and Control Equipment: Cairn Curran ..	109,000
3320	Bopp and Reuther .. ..	Outlet and Control Equipment: General .. ..	24,000
3321	Mephan Ferguson Pty. Ltd. .. ..	Supply of steel pipes: Main Urban .. ..	25,000
3325	C. Keath .. ..	Construction of earthen storage: Tyntynder ..	2,000
3326	Harland Engineering (Aust.) Pty. Ltd. ..	Supply and erection of pump: Millewa .. ..	8,200
3327	Mitchell and Co. Pty. Ltd. .. ..	Supply and erection of diesel engines: Millewa ..	23,000
3328	Harland Engineering (Aust.) Pty. Ltd. ..	Supply and erection of pump: Robinvale .. ..	2,200
3329	Mitchell and Co. Pty. Ltd. .. ..	Supply and erection of diesel engine: Robinvale ..	6,000
3330	Mephan Ferguson Pty. Ltd. .. ..	Supply of steel pipes: Mornington Peninsula ..	11,500
3331	Davies Sheppard Pty. Ltd. .. ..	Supply of water meters: Main Urban .. ..	2,800
		Total .. ..	2,067,700

## APPENDIX A.

## STATE RIVERS AND WATER SUPPLY COMMISSION.

## IRRIGATION SYSTEMS.

## RETURN OF WATER DELIVERED—YEAR 1952-53.

District.	Water Assign- ment Measured at District Bound- ary.	Gross Supply at District Offtakes (excluding volumes passed to other Districts).	Total Water Rights Allotted to District.	Users in District.			Total Delivered in District.	Users Outside District from District Channels.	Total Delivered.	Users Outside District, from Main Channels
				Under Water Rights.	Sales of Water.	Domestic and Stock Purposes.				
GOULBURN SYSTEM—										
(Main Eastern Channel.)	acre feet.	acre feet.	acre feet.	acre feet.	acre feet.	acre feet.	acre feet.	acre feet.	acre feet.	acre feet.
South Shepparton .. .. .	12,000	6,137	7,333	3,576	1,085	192	4,853	20	4,873	..
Shepparton .. .. .	51,000	35,389	13,198	17,510	1,592	271	19,373	113	19,486	..
North Shepparton .. .. .	44,000	(d) 39,151	21,064	11,043	3,542	461	15,046	..	15,046	57
Katandra .. .. .	13,000	11,760	4,404	6,374	1,764	159	8,297	..	8,297	23
Totals .. .. .	120,000	92,437	45,999	38,503	7,983	1,083	47,569	133	47,702	80
(Waranga Reservoir.)										
Rodney .. .. .	232,000	204,431	60,900	55,303	29,600	1,132	86,035	(a) 624	86,659	..
Tongala-Stanhope .. .. .	116,000	109,659	48,043	40,193	12,214	2,195	54,602	..	54,602	..
Deakin .. .. .	23,000	11,879	5,698	4,638	2,154	415	7,207	..	7,207	..
Rochester .. .. .	147,000	117,497	57,466	53,959	22,318	3,697	79,974	516	80,490	..
Dingee .. .. .	9,000	7,136	4,447	4,369	1,553	255	6,177	..	6,177	..
Calivil (including Loddon water) .. .. .	21,000	17,223	6,505	6,102	4,766	402	11,270	..	11,270	(b) 33
Tragowel Plains (including Loddon water) .. .. .	97,000	100,148	31,214	28,013	9,945	973	38,931	(h) 363	39,294	..
Boort (including Loddon water) .. .. .	35,000	31,385	11,340	10,821	5,041	523	16,385	1,824	18,209	..
Totals .. .. .	680,000	599,358	225,613	203,398	87,591	9,592	300,581	3,327	303,908	330
Goulburn Grand Totals .. .. .	800,000	691,795	271,612	241,901	(f) 95,574	10,675	348,150	3,460	351,610	410
MURRAY SYSTEM—										
(Yarrawonga Weir.)										
Murray Valley .. .. .	196,000	(e) 177,108	83,998	57,280	(g) 32,250	701	90,234	179	90,413	..
(Torrumbarry Weir.)										
Cohuna .. .. .	122,000	119,035	49,312	45,816	10,994	1,690	58,500	(b) 228	58,728	..
Koondrook .. .. .	70,000	65,767	24,622	23,426	5,780	235	29,441	34	29,472	..
Kerang .. .. .	71,000	59,057	21,407	20,911	9,665	892	31,468	200	31,668	..
Third Lake .. .. .	6,000	6,712	2,513	2,195	364	31	2,590	9	2,599	..
Mystic Park .. .. .	7,000	3,995	2,677	1,711	324	3	2,038	340	2,378	..
Tresco .. .. .	6,000	5,629	..	..	3,096	..	3,096	..	3,096	..
Fish Point .. .. .	5,000	2,894	1,845	1,710	388	..	2,098	..	2,098	..
Swan Hill .. .. .	63,000	49,066	25,873	23,320	8,889	654	32,863	71	32,934	..
Pental Island Private Diversions .. .. .	..	..	..	..	..	..	..	..	..	4,917
Kerang Private Diversions .. .. .	..	..	..	..	..	..	..	..	..	1,367
Kerang North-West Lakes Private Diversions .. .. .	..	..	..	..	..	..	..	..	..	1,169
Upper Gunbower Creek Private Diversions .. .. .	..	..	..	..	..	..	..	..	..	4,509
Lower Gunbower Creek Private Diversions .. .. .	..	..	..	..	..	..	..	..	..	7,477
Taylor's Creek Private Diversions .. .. .	..	..	..	..	..	..	..	..	..	1,747
Kow Swamp Private Diversions .. .. .	..	..	..	..	..	..	..	..	..	2,567
Pyramid Creek Private Diversions .. .. .	..	..	..	..	..	..	..	..	..	4,070
Torrumbarry Weir Totals .. .. .	350,000	312,155	128,249	119,089	(h) 39,500	3,505	162,094	879	162,973	33,823
(Pumped from River Murray.)										
Nyah .. .. .	12,000	10,209	7,181	7,181	930	204	8,305	177	8,482	..
Robinvale .. .. .	11,000	9,379	..	..	7,320	..	7,320	..	7,320	..
Red Cliffs .. .. .	50,000	44,651	34,100	30,750	479	..	31,229	332	31,561	..
Merbein .. .. .	33,000	35,698	23,651	23,395	1,468	..	24,863	746	25,609	..
Totals .. .. .	106,000	99,937	64,932	61,326	10,187	204	71,717	1,255	72,972	..
Murray Grand Totals .. .. .	652,000	589,200	277,179	237,695	81,937	4,413	324,045	2,313	326,358	..
CAMPASPE SYSTEM—										
Coliban .. .. .	..	7,941	..	..	(c) 8,348	5,200	13,548	..	13,548	..
Campaspe .. .. .	(i)	1,462	..	..	419	79	498	3	501	..
Totals .. .. .	..	9,403	..	..	8,767	5,279	14,046	3	14,049	..
WERRIBEE SYSTEM—										
Bacchus Marsh .. .. .	(j)	6,687	3,311	3,072	1,001	190	4,263	(b) 615	4,878	..
Werribee .. .. .	12,000	15,647	8,147	6,944	161	..	7,105	274	7,379	..
Totals .. .. .	12,000	22,334	11,458	10,016	1,162	190	11,368	889	12,257	..
MACALISTER SYSTEM—										
Maffra-Sale .. .. .	(i)	52,308	23,322	18,822	4,379	1,015	24,216	353	24,569	..
Central Gippsland .. .. .	(i)	10,846	..	..	3,854	..	3,854	..	3,854	..
Totals .. .. .	..	63,154	23,322	18,822	8,233	1,015	28,070	353	28,423	..
WIMMERA SYSTEM—										
Qwantong, Riverside, Burnlea, Haven, &c. .. .. .	..	8,249	..	..	4,356	..	4,356	..	4,356	..
PRIVATE DIVERSIONS (not included above)										
Totals .. .. .	1,464,000	1,384,135	583,571	508,434	200,029	21,572	730,035	7,018	737,053	135,926
FIRST MILDURA IRRIGATION TRUST .. .. .	(i)	46,000	47,043	29,986	12,902	129	43,017	83	43,100	..
GRAND TOTALS .. .. .	(j) 1,464,000	1,430,135	630,614	538,420	212,931	21,701	773,052	7,101	780,153	135,926
										916,079

(a) Includes Waterworks Trust. (b) Includes Urban Districts. (c) Includes 492 acre feet for mining. (d) Includes 2,630 acre feet passed into Broken Creek from Goulburn System. (e) Includes 10,471 acre feet passed into Broken Creek at Katamatite. (f) Includes 23,937 acre feet Supplementary Sales and 18,872 acre feet "Out of Season" sales. (g) Includes 6,756 acre feet Supplementary Sales. (h) Includes 5,540 acre feet Supplementary Sales and 6,151 acre feet "Out of Season" Sales. (i) Not expressed in acre feet. (j) Not including Campaspe, Bacchus Marsh, Maffra-Sale, Central Gippsland, and Mildura.

Total Supplementary Supply to Wimmera-Mallee for period 1st July, 1952, to 30th June, 1953:—

	Acre Feet.
From Waranga Western Channel .. .. .	8,572
From Loddon River .. .. .	11,026
Total .. .. .	19,598



Return of water delivered to Waterworks Districts during waterings in year 1952 ;  
measurements being made at Headworks or at Pumping Stations.

\* Detailed statement of Wimmera-Mallee System hereunder.

### WATER SUPPLIED FROM HEADWORKS.

In addition to the above, the following Quantities have been released from Headworks at Pine Lake, Green Lake, and Dock Lake Storages for Irrigation Areas in Western Wimmera and Wimmera United Districts.

[illegible]

## APPENDIX C.

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

District.	Year.	Commenced.	Completed.	Days.
Wimmera-Mallee .. .. . {	1951	11.4.51	5.11.51	209
	1952	27.3.52	15.10.52	203
Tyntynder North (late Coreena) .. .. . {	1951	9.7.51	23.8.51	46
	1952	14.7.52	25.8.52	43
Millewa .. .. . {	1951	7.5.51	8.8.51	94
	1952	2.6.52	25.8.52	85
Carwarp .. .. . {	1951	16.7.51	12.8.51	28
	1952	14.7.52	15.8.52	31
Yelta .. .. . {	1951	10.9.51	3.10.51	24
	1952	{ 3.9.52 3.11.52 }	{ 19.9.52 21.11.52 }	36

The figures for the preceding six years are given in the Commission's Forty-seventh Annual Report.

## APPENDIX D.

## COLIBAN SYSTEM—WATER DELIVERIES.

The following statement shows the quantities of water taken into and released from the main storages of the Coliban System, the quantities delivered to water-users, and the percentages of efficiency of deliveries since the year 1938-39 :—

Year.	Inflow to Storages.			Output from Storages.	Delivered to Users.	Percentage Efficiency.	Remarks.
	From Coliban River.	Through Ashbourne Diversion Channel from Campaspe River to Coliban River.	Total.				
	acre-feet.	acre-feet.	acre-feet.	acre-feet.	acre-feet.		
1938-39 ..	21,618	1,342	22,960	3,786	3,117	82	Water run in— Main Channels only
1939-40 ..	51,452	2,226	53,678	24,673	13,282	54	Whole system
1940-41 ..	6,482	211	6,693	16,000	10,000	63	Whole system (restrictions on minor races)
1941-42 ..	36,953	1,767	38,720	17,908	13,120	73	Whole system (restrictions on minor races)
1942-43 ..	63,749	1,557	65,306	22,363	13,135	58	Whole system
1943-44 ..	22,802	848	23,650	29,900	17,000	57	Whole system
1944-45 ..	8,016	96	8,112	16,698	9,933	59	Whole system*
1945-46 ..	33,019	1,781	34,800	17,897	10,546	59	Whole system
1946-47 ..	42,386	2,344	44,730	26,136	15,086	58	Whole system
1947-48 ..	72,638	1,953	74,591	22,124	15,027	68	Whole system
1948-49 ..	44,741	2,568	47,309	24,288	16,659	69	Whole system
1949-50 ..	62,908	3,680	66,588	19,987	14,303	71	Whole system
1950-51 ..	86,903	3,776	90,679	25,476	18,406	72	Whole system
1951-52 ..	98,541	3,314	101,855	31,471	22,484	71	Whole system
1952-53 ..	98,193	3,074	101,267	27,111	18,219	67	Whole System

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

## APPENDIX E.

## LANDS UNDER IRRIGATED CULTURE.

The two Statements hereunder show the extent of Areas Irrigated—

(A) During the last year in detail, and

(B) During the last five years totalled for purposes of comparison.

(A) STATEMENT OF THE EXTENT OF IRRIGATION AND OF AREAS OF DIFFERENT KINDS OF CROPS WATERED—  
YEAR 1952-53.

Name of District.	Total Area of Holdings in Irrigation Districts in Acres.	Area classified as Irrigable within Constituted Districts in Acres.	Water Rights Appropriated (including Extra Water Rights) (Acres-Feet).	Area Irrigated, including Lands adjoining a District, in Acres.										
				Total.	Cereals.	Lucerne Grown for Pasture and Hay.	Sorghum and Other Annual Fodder Crops.	Pastures.			Vineyards.	Orchards.	Market Gardens.	Fallow and Miscellaneous.
								Native.	Annual.	Perennial.				
GOULBURN SYSTEM.														
Katandra .. .. .	13,980	11,198	7,333	6,659	..	270	25	20	1,979	4,365	9	..	..	..
North Shepparton .. .. .	124,439	61,441	13,198	18,966	..	1,099	233	1,399	13,208	2,728	..	43	235	12
Shepparton .. .. .	24,163	21,062	21,064	18,107	..	405	53	693	2,664	3,846	102	8,236	2,065	43
South Shepparton .. .. .	33,726	17,917	4,404	8,085	590	726	44	280	4,826	1,261	..	40	293	25
Rodney .. .. .	273,766	190,266	60,900	99,531	148	12,557	409	2,102	52,442	21,216	72	8,557	2,008	20
Tongala-Stanhope .. .. .	76,113	47,617	48,043	44,713	52	1,154	69	542	14,798	26,603	7	1,350	106	32
Rochester .. .. .	182,006	56,995	57,466	64,476	113	2,643	134	3,455	27,988	28,704	8	912	203	316
Dingee .. .. .	8,826	4,447	4,447	6,219	55	..	..	164	1,307	4,676	1	..	1	15
Calivil .. .. .	61,136	32,527	6,505	10,858	143	299	73	1,880	7,533	853	10	..	27	40
Tragowel Plains .. .. .	218,499	148,870	31,214	47,575	6,543	211	1,510	14,776	17,158	5,916	28	..	..	1,433
Deakin .. .. .	160,826	21,202	5,698	7,870	12	419	12	460	4,024	2,936	..	..	7	..
Boort* .. .. .	80,235	56,560	11,340	20,197	2,910	484	670	5,555	7,568	745	..	..	15	2,250
Totals .. .. .	1,257,715	670,102	271,612	353,256	10,566	20,267	3,232	31,326	155,495	103,849	237	19,138	4,960	4,186
RIVER MURRAY SYSTEM.														
(a) Torrumbarry Weir.														
Cohuna .. .. .	85,945	44,687	49,312	58,510	851	695	93	18,285	13,394	24,228	..	43	..	921
Koondrook .. .. .	88,189	24,572	24,622	40,494	1,402	732	734	8,893	23,640	3,017	3	956	21	1,096
Swan Hill .. .. .	37,173	22,255	25,873	23,039	657	1,550	115	2,440	5,382	6,908	4,315	200	823	649
Third Lake .. .. .	11,483	3,771	2,513	3,847	421	41	54	557	2,648	120	..	3	..	3
Mystic Park .. .. .	19,259	7,805	2,677	4,762	893	35	32	667	2,106	382	10	17	66	554
Tresco .. .. .	4,700	2,000	..	1,484	..	21	..	..	..	..	1,175	228	60	..
Fish Point .. .. .	6,327	3,756	1,845	3,083	..	25	35	1,700	1,200	123	..	..	..	..
Kerang .. .. .	88,574	55,436	21,407	39,377	3,181	801	1,303	13,406	13,606	5,422	..	..	4	1,654
Kerang North-West Lakes .. .. .	36,381	..	..	4,772	888	124	170	1,923	1,162	54	28	352	1	70
Private Diversions .. .. .	..	..	..	22,098	1,516	859	361	2,489	11,170	4,606	45	254	659	139
Totals .. .. .	378,031	164,282	128,249	201,466	9,809	4,883	2,897	50,360	74,308	44,860	5,576	2,053	1,634	5,086
(b) Yarrawonga Weir.														
Murray Valley .. .. .	266,762	173,353	83,998	57,600	252	13,441	368	3,102	23,603	12,941	50	3,029	781	33
(c) Direct from River by Pumping.														
Nyah .. .. .	3,842	2,620	7,181	3,028	92	62	80	37	97	100	2,401	106	53	..
Red Cliffs .. .. .	13,619	11,273	34,100	11,641	..	61	37	..	10	..	10,916	480	137	..
Merbein .. .. .	9,214	7,652	23,651	8,361	..	50	155	23	90	..	7,280	709	54	..
Robinvale .. .. .	4,994	3,765	..	2,655	..	..	..	..	..	..	2,429	..	..	226
Totals .. .. .	31,669	25,310	64,932	25,685	92	173	272	60	197	100	23,026	1,295	244	226
(d) First Mildura Trust District.														
.. .. .	45,000	15,000	..	13,392	..	200	232	..	..	..	12,000	960	..	..
Total (River Murray System) .. .. .	721,462	377,945	277,179	298,143	10,153	18,697	3,769	53,522	98,108	57,901	40,652	7,337	2,659	5,345
LODDON AND OTHER NORTHERN SYSTEMS.														
Boort* .. .. .	..	..	..	1,063	153	25	35	293	398	39	..	..	1	119
East Loddon .. .. .	..	..	..	773	16	..	20	167	545	..	..	..	25	..
Loddon .. .. .	..	..	..	71	..	..	..	11	60	..	..	..	..	..
West Loddon .. .. .	..	..	..	3,359	230	122	7	221	225	..	..	..	..	2,554
Coliban .. .. .	..	10,970	..	7,443	34	267	14	820	330	2,191	..	3,126	661	..
Campaspe .. .. .	19,736	..	..	871	187	104	50	..	455	43	..	2	..	30
Western Wimmera .. .. .	..	3,083	..	3,067	..	240	42	..	..	1,455	..	955	375	..
Wimmera United .. .. .	..	167	..	113	..	65	..	..	..	44	..	4	..	..
Totals .. .. .	19,736	14,220	..	16,760	620	823	168	1,512	2,013	3,772	..	4,087	1,062	2,703
SOUTHERN SYSTEMS.														
Bacchus Marsh .. .. .	6,754	3,310	3,311	3,130	27	409	..	752	..	1,358	..	170	333	81
Werribee .. .. .	9,702	8,146	8,147	7,683	..	615	85	..	..	3,012	..	383	3,453	135
Maffra-Sale .. .. .	72,879	25,234	23,322	23,176	9	622	138	306	24	22,074	..	..	3	..
Central Gippsland .. .. .	58,496	6,439	..	2,826	..	408	15	..	283	2,009	..	..	5	106
Mornington Peninsula .. .. .	..	..	..	1,544	..	..	..	..	..	..	..	..	1,185	359
Bellarine Peninsula .. .. .	..	..	..	105	..	30	..	..	..	..	..	..	75	..
Totals .. .. .	147,831	43,129	34,780	38,464	36	2,084	238	1,058	307	28,453	..	553	5,054	681
PRIVATE DIVERSIONS.														
Other Private Diversions throughout the State .. .. .	..	..	..	48,407	2,767	3,949	570	5,995	13,771	8,771	2,605	3,001	3,155	3,823
Grand Totals 1952-53 .. .. .	2,146,744	1,105,396	583,571	755,030	24,142	45,820	7,977	93,413	269,694	202,746	43,494	34,116	16,890	16,738
Grand Totals 1951-52 .. .. .	2,087,969	1,089,902	577,692	723,797	20,634	48,546	9,758	90,638	235,742	206,626	43,584	36,125	16,276	15,808

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

(B) COMPARATIVE STATEMENT OF THE EXTENT OF IRRIGATION—1948-49 TO 1952-53.

Source of Supply.	Area under Irrigation (Acres).				
	1948-49.	1949-50.	1950-51.	1951-52.	1952-53.
Goulburn System .. .. .	364,113	316,440	343,903	339,356	353,256
River Murray System .. .. .	260,579	249,832	276,454	277,817	298,143
Loddon and Other Northern Systems .. .. .	18,160	16,784	15,769	16,516	16,760
Southern Systems .. .. .	35,622	33,216	32,401	37,690	38,464
Private Diversions .. .. .	44,494	46,018	47,524	52,418	48,407
Totals .. .. .	722,968	662,290	716,051	723,797	755,030

## APPENDIX F

## TOTAL STORAGES IN STATE.

In 1902 the total capacity of storages in the State was 172,000 acre feet. The present capacity of those under the Commission's direct control is 2,373,680 acre feet. The Hume Reservoir, designed to contain 2,000,000 acre feet (half of which can, subject to the provisions of the River Murray Agreement, be credited to the State of Victoria), has a capacity of 1,382,000 acre feet. When the final stage of this work has been completed and the Cairn Curran, and Glenmaggie Reservoirs are completed and the present Eildon Reservoir is enlarged, the combined capacities of Victoria's storages will be 5,360,680 acre feet.

## EXISTING STORAGES.

Storage.						Full Supply Reduced Level.	Capacity.	
						Feet.	Acre feet.	Acre feet.
<i>Goulburn System—</i>								
Eildon	..	..	..	..	..	823·00	306,000	
Goulburn Weir (8,000 acre feet below gravitation level)	..	..	..	..	..	408·00	20,700	
Waranga (53,000 acre feet below gravitation level)	..	..	..	..	..	398·00	333,400	660,100
<i>Murray—Loddon System—</i>								
Capacity in Acre feet.								
Hume Reservoir	..	..	..	..	..	610·00 (a)	802,420	
Yarrawonga Weir	..	..	..	..	..	412·80 (b)		
Torrumbarry	..	..	..	..	..	285·00 (c)		
Euston	..	..	..	..	..	159·00 (c)		
Mildura	..	..	..	..	..	116·00 (c)		
Wentworth	..	..	..	..	..	104·15 (c)		
1,604,840								
Kow Swamp	..	..	..	..	..	272·00	40,860	
Launcecoorie	..	..	..	..	..	527·00	6,300	
<i>Kerang-North West Lakes—</i>								
Third, Middle, Reedy Kangaroo, Racecourse, Charm } (42,100 acre feet below gravitation level)						244·75	69,400	
Cullens						241·00		
Lake Boga (23,750 acre feet below gravitation level)						240·25		
Lake Cullulleraine	..	..	..	..	..	226·50	29,650	
	..	..	..	..	..	101·00	2,000	950,630
<i>Wimmera—Mallee System—</i>								
Rocklands	..	..	..	..	..	644·00	272,000	
Toolondo	..	..	..	..	..	538·00	58,000	
Pyans Lake (800 acre feet below gravitation level)	..	..	..	..	..	673·00	17,100	
Lake Lonsdale (1,600 acre feet below gravitation level)	..	..	..	..	..	618·25	53,300	
Wartook (700 acre feet below gravitation level)	..	..	..	..	..	1,451·00	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)	..	..	..	..	..	402·00	5,000	
Lake Whifton	..	..	..	..	..	375·00	1,300	
Township Reservoirs and Mallee Tanks	..	..	..	..	..	..	4,990	536,860
<i>Maffra-Sale System—</i>								
Glenmaggie	..	..	..	..	..	244·00	106,000	
Service Basins (Stratford, Heyfield)	..	..	..	..	..	..	40	106,040
<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>Bellarine Peninsula System—</i>								
Wurdee Holue	..	..	..	..	..	441·50	10,000	
Service Basins	..	..	..	..	..	..	850	10,850
<i>Mornington Peninsula System—</i>								
Lysterfield	..	..	..	..	..	221·50	3,400	
Beaconsfield	..	..	..	..	..	340·00	740	
Frankston	..	..	..	..	..	255·00	660	
Mornington	..	..	..	..	..	244·00	260	
Bittern	..	..	..	..	..	250·00	480	
Service Basins	..	..	..	..	..	..	260	5,800
<i>Otway System—</i>								
Service Basins	..	..	..	..	..	..	..	1,080
<i>Miscellaneous—</i>								
Eppalock	..	..	..	..	..	530·00	1,200	
Wonthaggi	..	..	..	..	..	238·00	1,550	
Wonthaggi Service Basins	..	..	..	..	..	..	10	
Newstead	..	..	..	..	..	806·00	30	
Hepburn's Lagoon	..	..	..	..	..	696·60	1,730	
Little River Weir	..	..	..	..	..	..	100	
Moorabool River Weirs	..	..	..	..	..	..	70	4,690
<b>Total Capacity of Existing Storages</b>						..	..	<b>2,373,680</b>
<b>ADDITIONAL STORAGE BEING PROVIDED BY WORKS IN COURSE OF CONSTRUCTION.</b>								
<i>Goulburn System—</i>								
Eildon Enlargement to 2,750,000 acre feet	..	..	..	..	..	950·00	..	2,444,000
<i>Murray—Loddon System—</i>								
Cairn Curran	..	..	..	..	..	684·50	..	120,000
<b>FURTHER STORAGE WHICH WILL BE PROVIDED WHEN GATES ARE INSTALLED ON THE RESPECTIVE SPILLWAYS.</b>								
<i>Maffra-Sale System—</i>								
Glenmaggie to 154,000 acre feet	..	..	..	..	..	256·00	48,000	
<i>Murray System—</i>								
Hume Reservoir to 2,000,000 acre feet (half share to Victoria)	..	..	..	..	..	626·00	375,000	423,000
<b>TOTAL CAPACITY OF STORAGES WHEN WORKS ARE COMPLETED</b>						..	..	<b>5,360,680</b>

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

(b) New South Wales Water Conservation Datum.

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

## APPENDIX G.

## VICTORIAN WATER SUPPLY STATISTICS.

AREA.		1952-53.	
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 .. .. .	19,999* square miles =	12,799,370* acres	
Area of Irrigation Districts and other lands supplied for irrigation .. .. .		2,480,760* acres	
Area Irrigated (1952-53) .. .. .		755,030 acres	
Area within Flood Protection Districts .. .. .		148,910* acres	
Area within Drainage Districts .. .. .		18,450* acres	

\* Gross area.

## AVERAGE ANNUAL RAINFALL.

Over State (87,884 square miles) .. .. .	10 inches to 80 inches
Under 15 inches .. .. .	18,701 square miles = 21.3 per cent. of area of State
15 inches to 20 inches .. .. .	13,800 " " = 15.7 " " "
20 " 25 " .. .. .	13,551 " " = 15.4 " " "
25 " 30 " .. .. .	14,528 " " = 16.5 " " "
30 " 40 " .. .. .	15,802 " " = 18.0 " " "
40 " 50 " .. .. .	6,671 " " = 7.6 " " "
50 " 60 " .. .. .	2,660 " " = 3.0 " " "
Over 60 inches .. .. .	2,171 " " = 2.5 " " "
Total .. .. .	87,884 " "

## WATERWORKS—

## Controlled by Commission—

## Storages—

Number of large reservoirs .. .. .	37
Number of subsidiary reservoirs and service basins .. .. .	241
Total capacity of storages, 646,234 million gallons = 2,373,680* acre feet.	

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

## Channels—Length—

Irrigation .. .. .	4,789 miles
Domestic and Stock .. .. .	8,031 miles
Drainage and Flood Protection .. .. .	2,086 miles
Total .. .. .	14,906 miles

## Pipe Lines—Length—

Mains .. .. .	264 miles
Reticulation .. .. .	934 miles
Total .. .. .	1,198 miles

## Tanks—Excavated—

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

Number in Waterworks Districts .. .. .	55 bores
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## Water Deliveries—

Quantity water delivered from Commission's Works to water-users (excluding deliveries to Wimmera-Mallee and Other Domestic and Stock Systems) .. .. .	771,286 acre feet
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## RURAL DISTRICTS—

## Administered by Commission—

	Number of Districts.	Number of Assessments.	Population.
Irrigation Districts .. .. .	28	13,656	42,960
Waterworks Districts (including rural lands, Coliban System) .. .. .	31	21,210	60,393
Flood Protection Districts .. .. .	4	1,504* (45)	3,995* (67)
Drainage District .. .. .	1	5,473	5,100
Totals .. .. .	64 districts	41,843 assessments	112,448 persons

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

## URBAN DISTRICTS—

## Reticulated pipe supplies for domestic and industrial purposes—

	Number of Towns.	Population.
Administered by Commission .. .. .	130	162,040 persons
" " Waterworks Trusts .. .. .	123	295,140 "
" " Local Governing Bodies .. .. .	15	88,200 "
Totals .. .. .	268 towns	545,380 persons

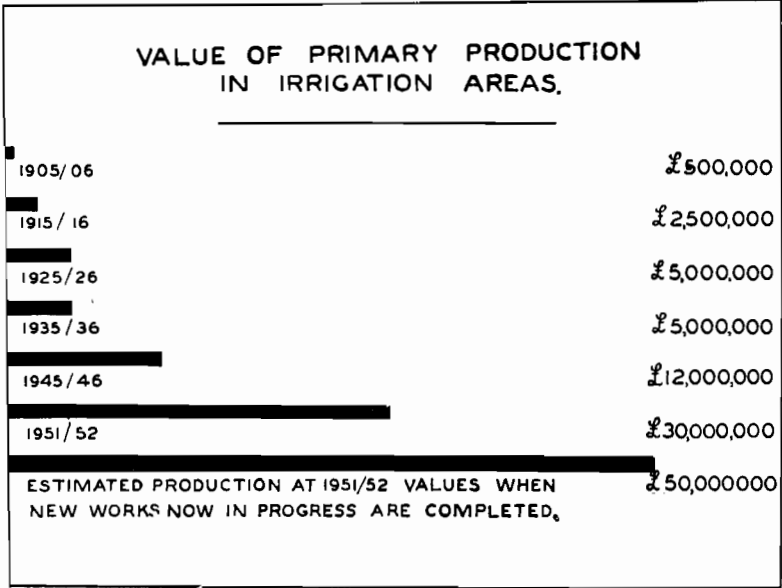
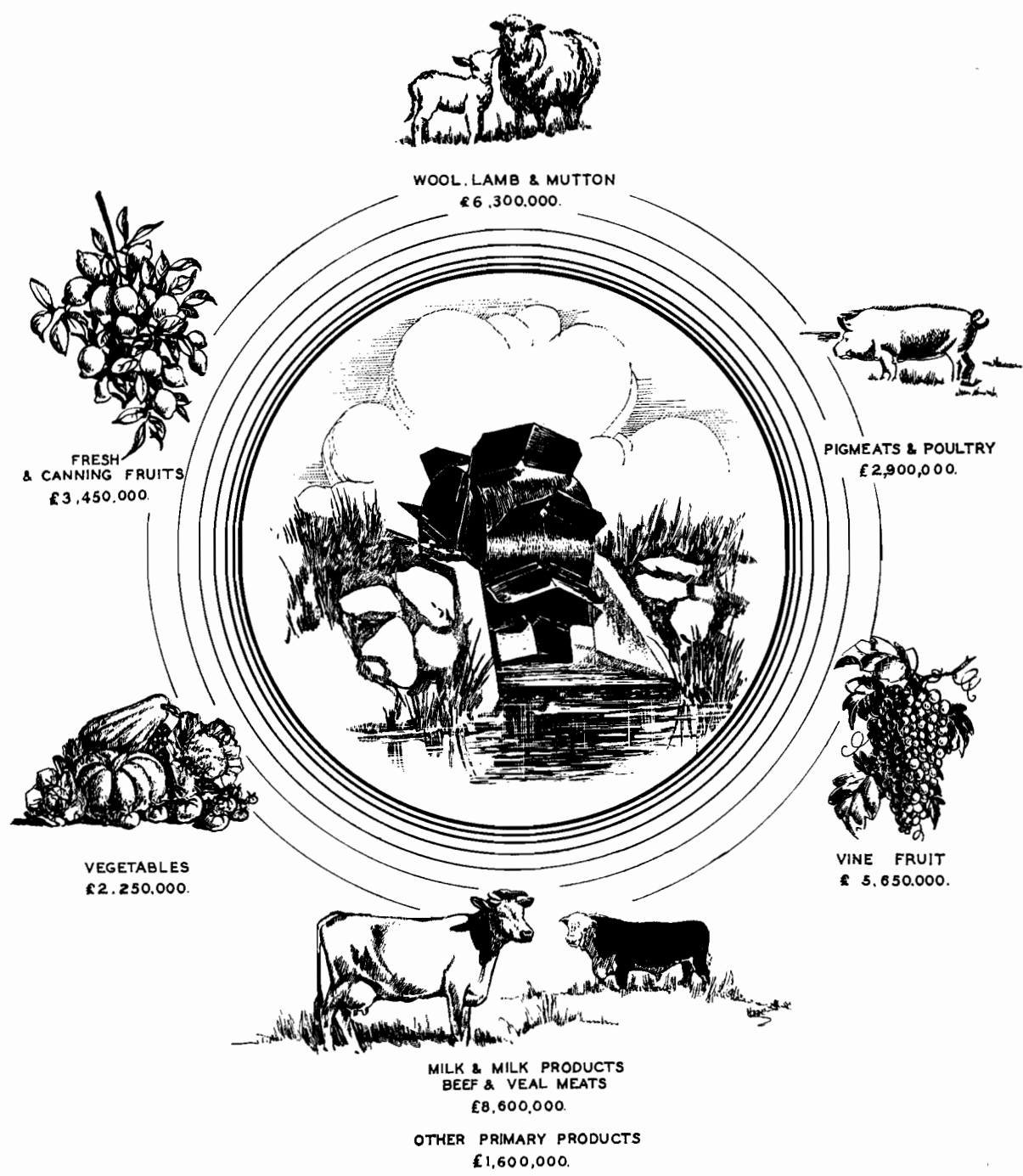
## SEWERAGE AUTHORITIES—

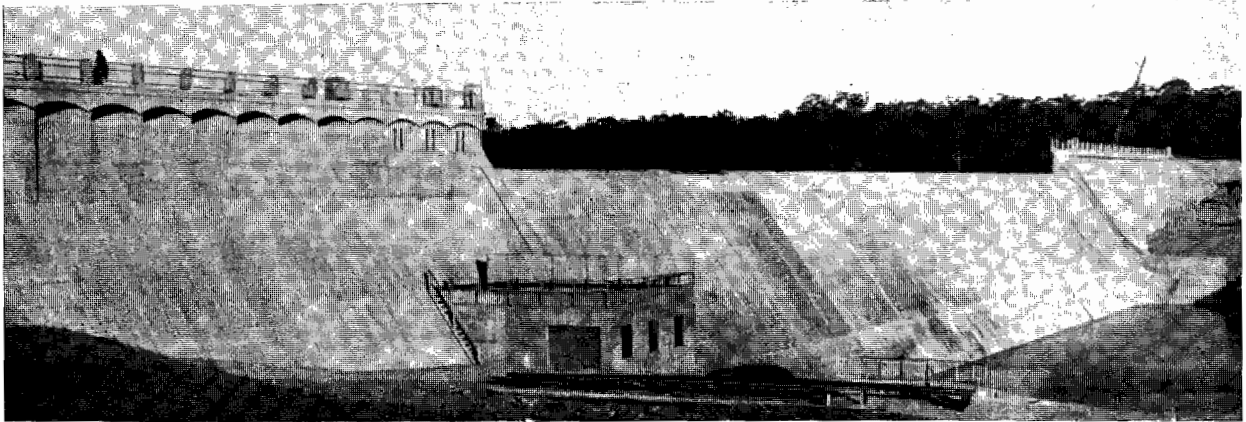
## Controlled by Local Authorities supervised by Commission .. .. .

authorities supervised by Commission .. .. .				26 (Systems operating) ..	110,250 persons
				5 (Systems partly operating) ..	12,850 "
				29 (Systems not operating) ..	63,420 "
<b>Totals .. .. .</b>				<b>59 towns .. .. .</b>	<b>251,520 persons</b>

## CAPITAL LIABILITY FOR WATER SUPPLY—

Total to 30th June, 1953—(a) Borne by the State .. .. .	£57,178,362
(b) Borne by the Districts .. .. .	£6,310,117
Total .. .. .	£63,488,479





#### ROCKLANDS DAM.

Rocklands Dam, impounding 272,000 acre feet of water on the Glenelg River near Balmoral in Western Victoria, was officially opened by the Minister of Water Supply, the Hon. C. P. Stoneham, M.L.A., on the 7th May, 1953.

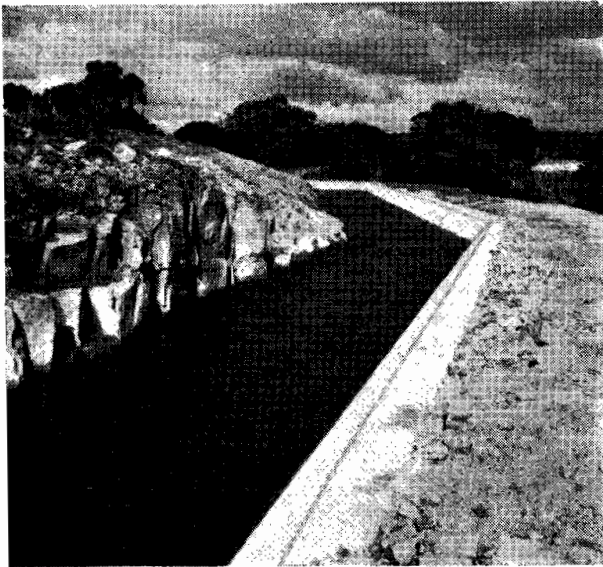
Construction of the dam, which is a mass concrete structure with a central spillway section and rockfill abutments, involved the placing of 70,500 cubic yards of concrete and 15,000 cubic yards of rock. The dam has an overall length of 1,570 feet, and is 107 feet in height above foundation level.

Water from Rocklands Reservoir is conveyed inland by a channel 75 miles in length leading to the Pine and Taylor's Lakes storages of the Wimmera-Mallee Domestic and Stock Water Supply System. En route, surplus water can be diverted to a subsidiary reservoir with a capacity of 58,000 acre feet which is being developed from a large natural depression at Toolondo.

In the Wimmera-Mallee System, water is delivered through 6,500 miles of channels to 47 towns and 12,000 farms over an area of 11,000 square miles. Production from this area is valued at more than £30 million annually, with wool and wheat the main items. Even in years of normal rainfall, however, farming is almost completely dependent on the channel system for domestic and stock water supplies.

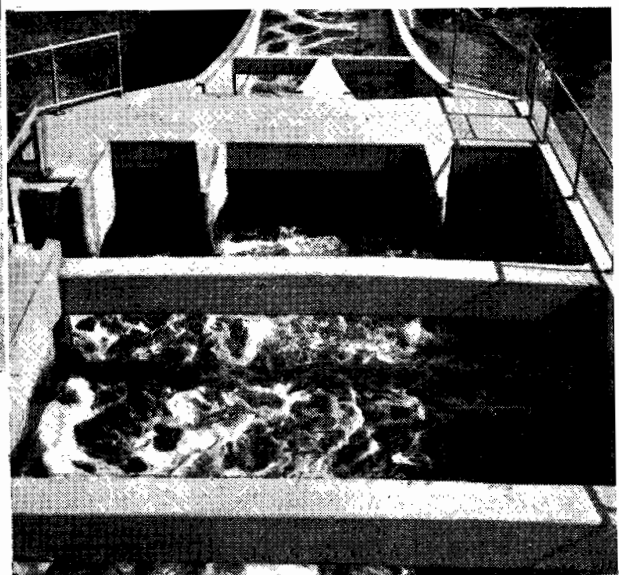
The annual water requirement of the districts served is approximately 75,000 acre feet. Prior to the completion of the Rocklands project, the total capacity of the Wimmera-Mallee headworks storages was 192,000 acre feet, which was sufficient for only two years' requirements. In the event of a prolonged drought the storages would have been depleted and heavy stock and production losses would have occurred throughout the area.

With the completion of Rocklands and Toolondo Reservoirs, the capacity of the headworks storages has been increased to 522,700 acre feet. The additional quantity of water now available will give greater security against drought losses, which in one year could easily exceed the cost of the storages.



Above : A section of the 250-cusec capacity channel traversing rough country. In parts, the channel passes through rock excavations up to 20 feet deep and crosses sand dunes up to 10 feet deep. A tunnel three-quarters of a mile long, seven siphons, and extensive concrete fluming were also necessary in its construction.

Below : Water released from Rocklands Reservoir entering the outlet channel linking the reservoir with Toolondo Reservoir and the existing Wimmera-Mallee system headworks storages.

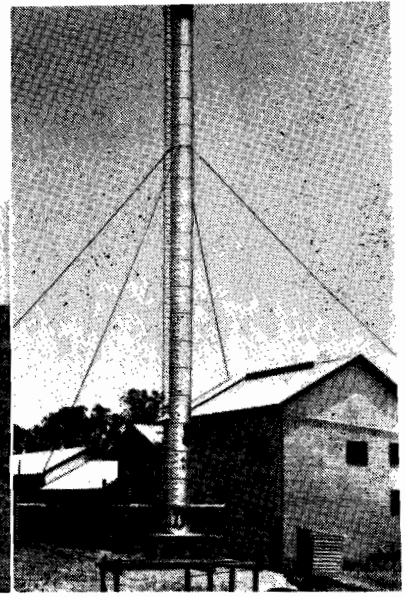




## ROBINVALE.

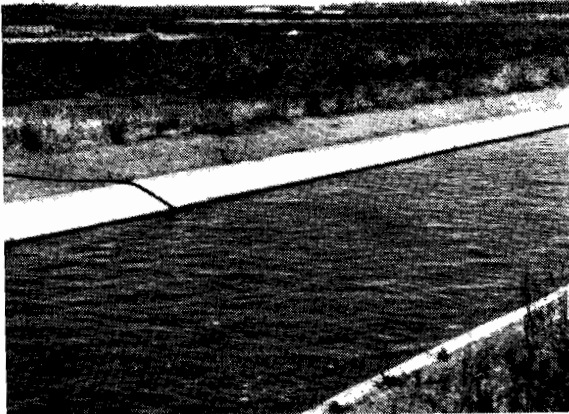
The establishment of the Robinvale Soldier Settlement for the production of dried fruits is one of the most successful and spectacular developmental works carried out in Victoria in recent years.

In 1946 Robinvale was nothing more than a convenient centre of a sparsely populated grazing district, much of which was typical scrub-covered virgin mallee country. Today, less than seven years later, following the advent of irrigation, the same area supports a population of 3,000 and is producing a steadily increasing volume of dried fruits, valued last year at £350,000.



Top Left : General view of irrigated vineyards and settler's homes.

Above : Robinvale Main Pumping Station.

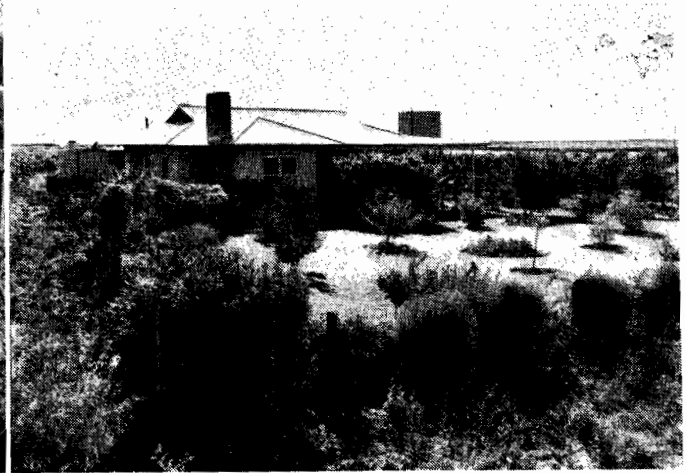


Reticulation of the settlement, which is situated on the River Murray 60 miles upstream from Mildura, was commenced in October, 1946. All works necessary to deliver water to the block boundaries were carried out by the State Rivers and Water Supply Commission. These included the establishment of a 650-h.p. Main Pumping Station and five relift pumping stations to supply high ground, the construction of a large section of concrete box flume,  $1\frac{1}{2}$  miles of concrete lined channel, and the laying of 150,000 feet of concrete piping ranging from 12 inches to 39 inches in diameter.

All of the 166 blocks comprising the settlement were made available to soldier settlers. The internal development of each block was carried out by the Soldier Settlement Commission and included the laying of pipes, planting, trellising, and the construction of houses and out-buildings.

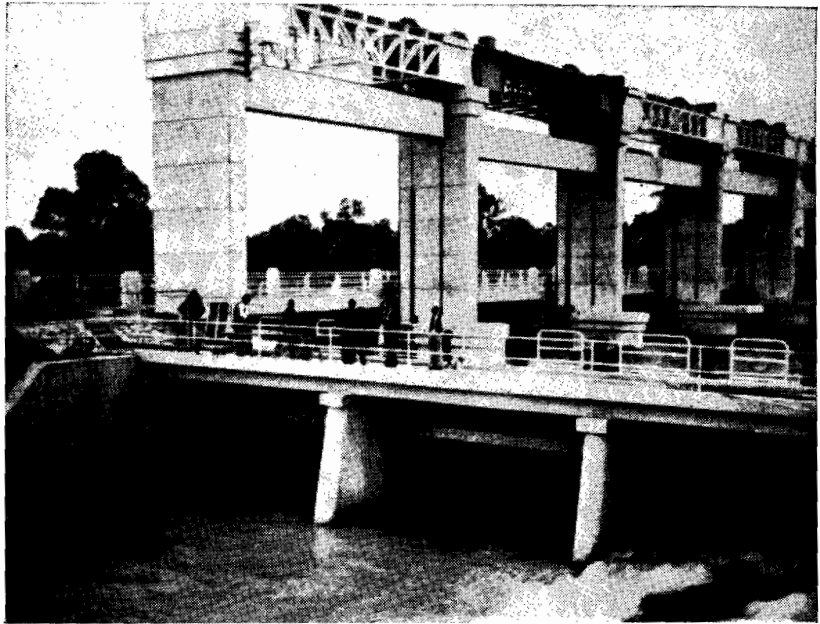


Above left : Concrete lined irrigation channel, with vineyards and drying racks in background. Centre : Irrigating citrus in the Robinvale District. Below left : Heavily laden vines yield up to 2 tons of fruit per acre. Below : A typical house and well-developed allotment.

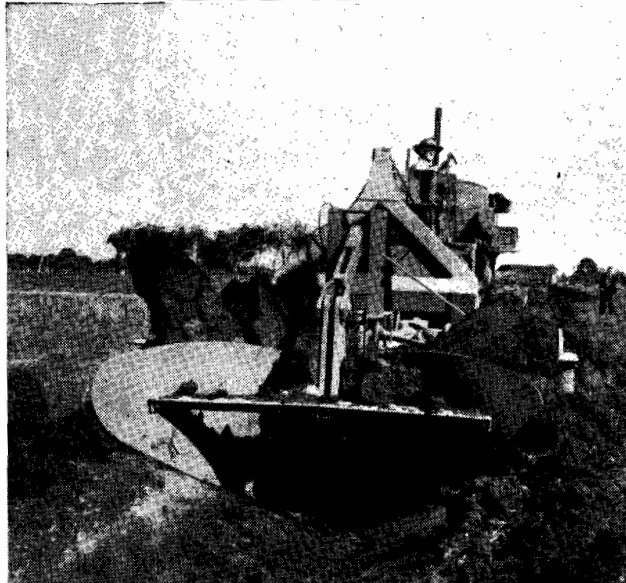


# MURRAY VALLEY IRRIGATION DISTRICT.

The Murray Valley District, covering 266,762 acres, is the largest of the irrigation areas now in the course of development in Victoria. Until 1939, the land was devoted to the production of wheat and wool, but with the completion of Yarrawonga Weir and the constitution of the new irrigation district in that year, land use changed rapidly to dairying and fat lamb raising on irrigated pastures, and to fruit and vegetable growing on horticultural lands.

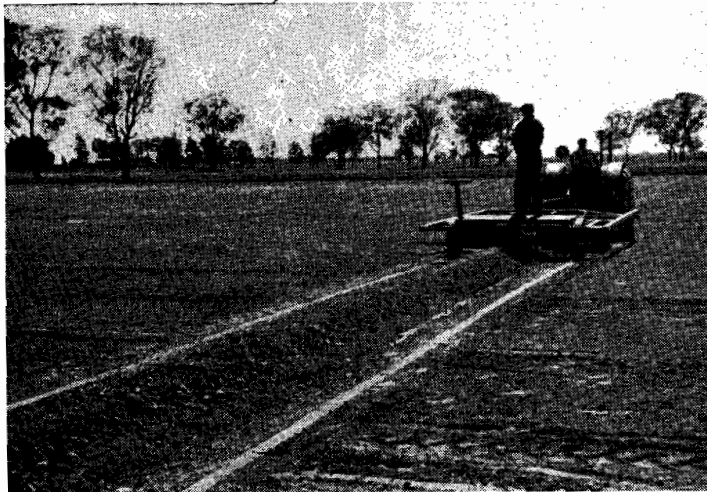


*Right :* Mechanical plant specially developed by the Commission and used extensively in the Soldier Settlement area for the construction of internal channels. The district has been fully reticulated over an area of 216,862 acres and 508 miles of channels are in use.

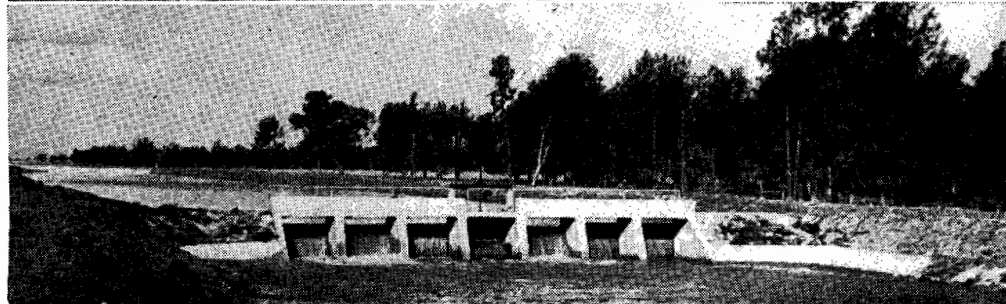


*Above :* Offtake of the Main Channel from Yarrawonga Weir on the River Murray. Water is also diverted on the New South Wales side of the river and is supplied for irrigation purposes to a gross area of 1,000,000 acres in that State.

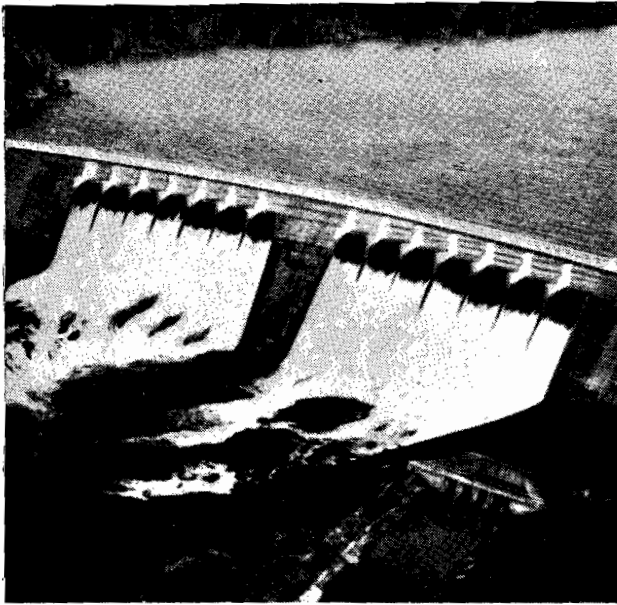
*Below :* Preparing land for irrigation in the Soldier Settlement area. The total area which has been prepared and sown down by the Commission is 22,500 acres.



The transformation which took place throughout the area generally with the introduction of irrigation has been most striking in an area of 60,000 acres reserved after the war for soldier settlement. This area is being developed on behalf of the Soldier Settlement Commission to provide 627 farms and orchards, 445 of which are now in production. The intense development which has taken place has resulted in the establishment of many new industries, services, and amenities. Since 1940 the population of the district has increased from 240 to 3,800 people, and it is anticipated that, as a result of the works being carried out, the value of primary production from the district will be increased from £500,000 to £1,500,000 and more per year.



*Left :* Regulator on the No. 5 Main Channel. Approximately eight structures of varying size are required for each mile of channel throughout the district.



#### CENTRAL GIPPSLAND IRRIGATION DISTRICT.

New works to supply water to the Central Gippsland District were officially opened by the Hon. R. K. Brose, M.L.A., then Minister of Water Supply, in October, 1952. Nearly 3,000 acres of land in the Nambrok-Denison area were irrigated for the first time during the year. Eventually 54,000 acres of land between the Macalister and Latrobe Rivers will be brought under irrigation and will become, with a high ratio of water right to gross area, one of the most intensive irrigation areas in the Commonwealth.

Glenmaggie Reservoir (above) will be the main source of supply for the new district. The reservoir, which also supplies the existing Maffra-Sale District, has a capacity of 106,000 acre feet. This will be increased to 150,000 acre feet by the installation of steel gates to raise the full supply level by 12 feet.



The Main Southern Channel (right), largest of the supply channels, conveys the water beyond the Thomson River. In the earth sections the channel has a general bedwidth of 32 feet and carries water to a depth of 7 feet. Sections in concrete box flume (above) have a general width of 15 feet and a depth of 5 feet. Other sections of the channel comprise a tunnel 15 chains long and, at the Thomson River, a siphon 7 feet in diameter and 66 chains long.



An area of 22,500 acres in the new district has been reserved for soldier settlement. The Commission is preparing some 60 acres for irrigation on each of the 150 blocks to be made available. The average area of each block is about 110 acres. Preparation of the land is being carried out at the request of the Soldier Settlement Commission and includes ploughing, grading, check-banking, sowing, and the construction of internal channels.





Photo by J. D. Payens.

#### BIG EILDON DAM.

The Big Eildon Project, now in its third year of construction, should be completed by 1956.

The works involved in the project are of greater magnitude than any other water supply works previously carried out in Victoria. The new embankment will contain 13,620,000 cubic yards of earth and rock; it will be 3,000 feet in length, 1,020 feet wide at the base, and will rise to a height of 260 feet above its foundation level. Construction of the spillway, outlet and other works will involve the placing of 200,000 cubic yards of concrete.

At full supply level the capacity of the new Eildon Reservoir will be 2,750,000 acre feet.

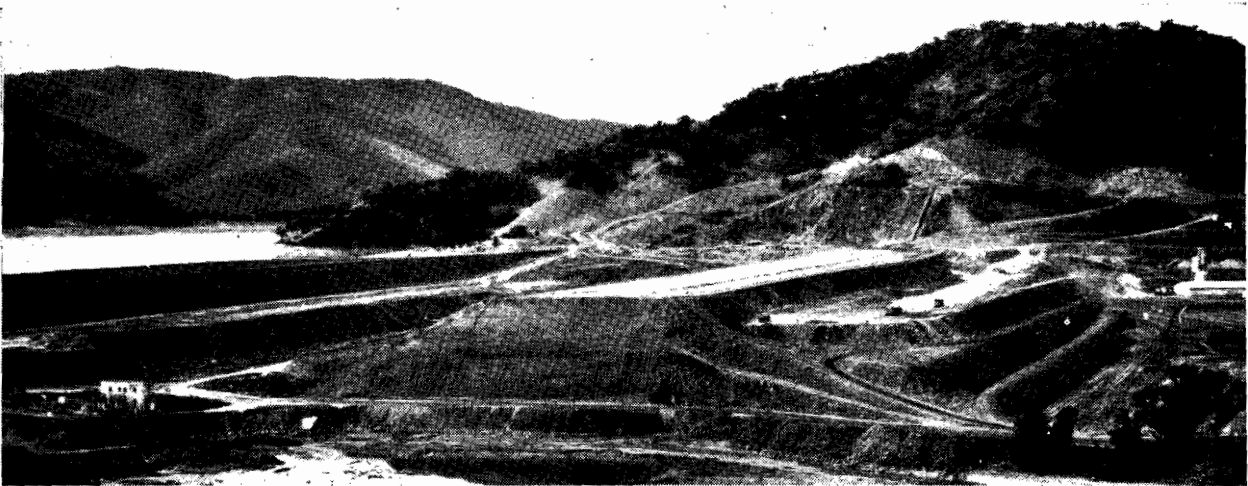
Considerable progress has been made on the construction of the new works, particularly during the last year when an extended period of good weather greatly facilitated earthmoving operations. The total quantity of earth and rock placed in the embankment is now 3,810,000 cubic yards, of which 3,329,000 cubic yards were placed during the year. As shown above, the fill has been placed in the section 2,000 feet long between the Goulburn River and the Mt. Pinniger abutment. The height of this section is approximately 140 feet.

Excavation of the 1,400 feet outlet tunnel to a diameter of 28 feet was completed during the year. It is now being lined with steel and concrete to a diameter of 23 feet. The internal steel lining was prefabricated in pipe sections at the Eildon workshops, the sections being field-welded together after insertion in the tunnel. Concrete is being placed around the internal lining by means of an 8-in. concrete pump, and the surrounding rock and concrete is then being grouted to a depth of 30 feet.

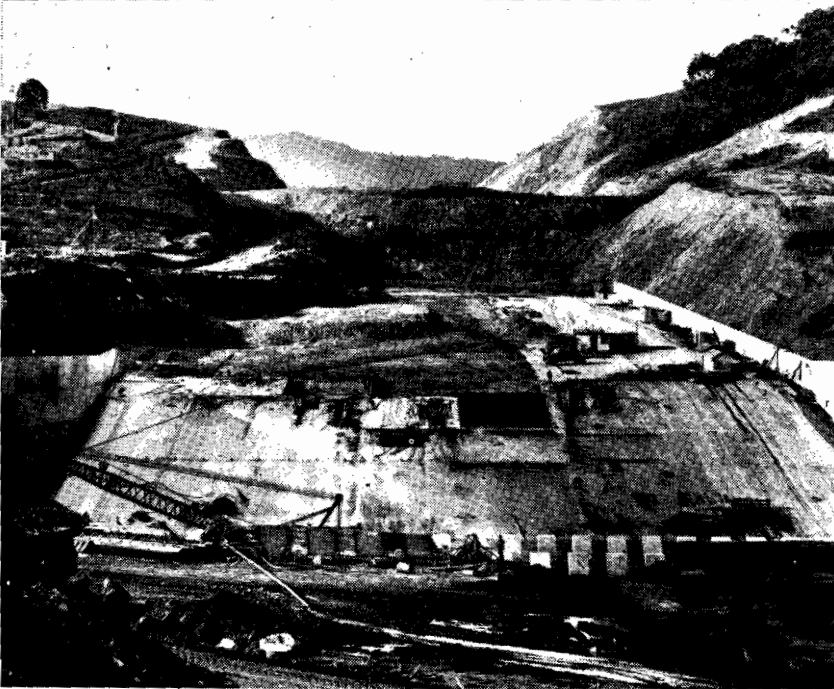
The concrete outlet tower at the upstream end of the outlet tunnel has been raised to a height of 105 feet. When completed it will have a height of 226 feet above its base level on the apron of the existing spillway.

Much of the fill placed in the embankment has been obtained from the spillway excavations which, with the removal of more than 3,000,000 cubic yards of earth and rock, are more than half-way to completion. When completed, the spillway channel will have a maximum depth of 250 feet and a bedwidth varying from 120 feet at the upstream end to 300 feet at the downstream end. The overall length of the channel will be 4,600 feet.

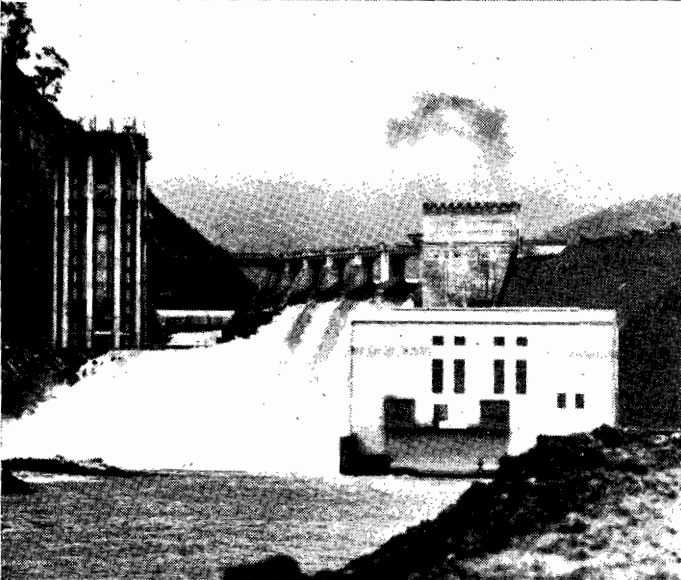
Construction of the closure section of the embankment across the Goulburn River will commence next summer. While this work is in progress, river flow will be diverted through the outlet works and flood flows will be bypassed through the spillway channel excavation. It is anticipated that by June next year, the embankment will have been raised to a height of 150 feet for the whole of its length across the river valley.



Above : Nearly 4,000,000 cubic yards of earth and rock have been placed in the embankment of Big Eildon Dam, which is now approximately the same height as the existing dam. Construction of the embankment across the Goulburn River (foreground) will be commenced next summer.



Left : View of the spillway excavation. The spillway structure, which will be 215 feet wide and 100 feet thick at the base, and 120 feet high, will be constructed in the vicinity of the unexcavated section of the channel. Water passing over the spillway will be carried down the concrete-lined chute 1,270 feet long to the dissipator shown under construction in the foreground



Above : Big Eildon outlet tower under construction on the apron of the existing spillway. Its height at the end of June was 105 feet.

Right : Painting the interior of the 23-ft. diameter steel-lined outlet tunnel with cold application coal tar paint.

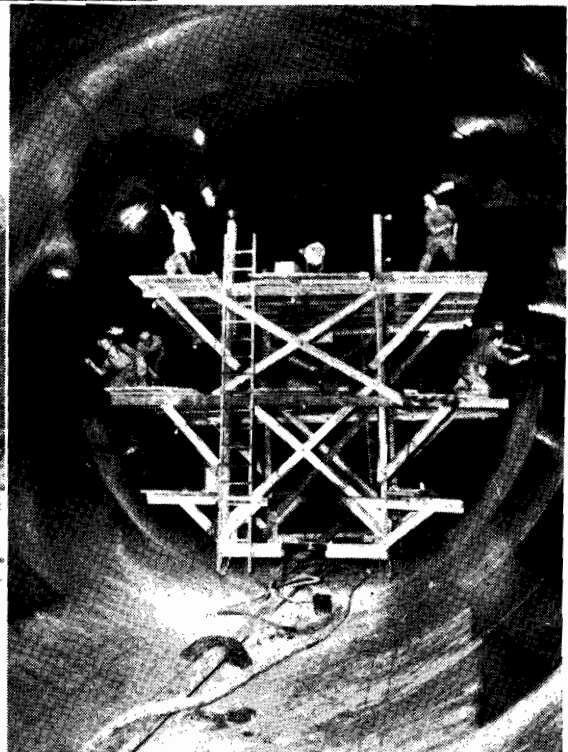
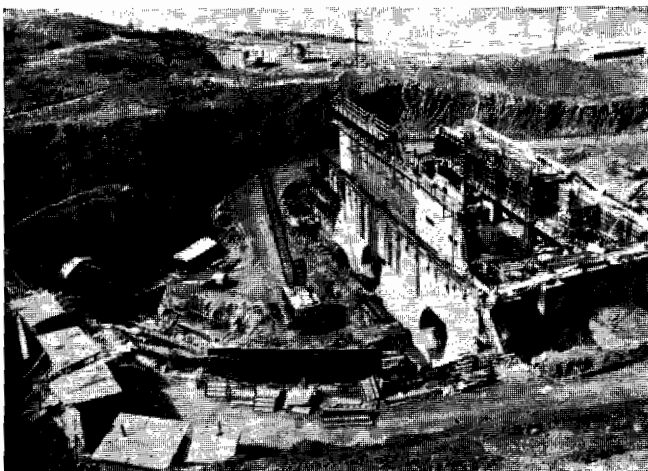




Photo by J. D. Payens.

#### EILDON TOWNSHIP.

The new Eildon township occupies an excellent site on the banks of the Goulburn River two miles downstream from the Big Eildon Dam. A total of 488 houses have now been erected and equipped with modern conveniences including electric stoves and hot water services. Extensive hostel buildings have been established to accommodate over 1,000 men. Other buildings include bank offices, a shopping centre, school, theatre, garage and service station, cafe, kindergarten, District Hospital, Post Office, and Police and Fire Stations. The entire township area is served by storm-water drainage, sewerage and water supply systems.



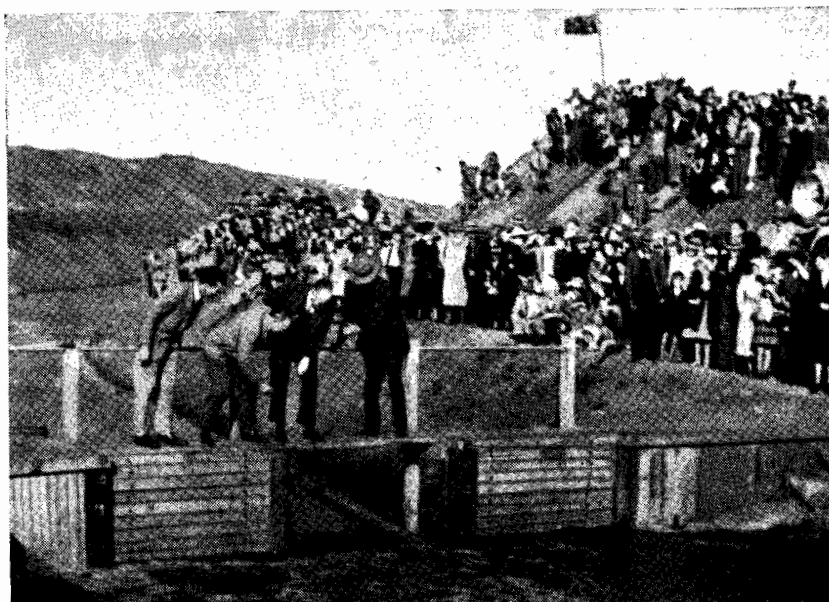
#### POWER.

The power station being constructed at the downstream portal of the Big Eildon outlet tunnel will house two 60,000 kW and two 7,500 kW turbo-generators. It will be operated as a peak load station in the State Electricity Commission's network. The discharge of water from Eildon Reservoir through the turbines will result in a wide variation of the stream flow below the dam. In order to maintain as far as possible a uniform rate of flow down the Goulburn River, the water released from the turbines will be regulated by means of a detention pondage weir just below the dam.



### RIVER IMPROVEMENT.

River improvement and drainage works are, for the most part, carried out by specially elected trusts which operate under the general supervision of the Commission. The nine trusts formed so far have drawn up comprehensive works programmes which will be put into effect as the necessary finance becomes available. The formation of several more trusts is pending, and the ultimate aim is to create trusts, or similarly competent bodies, with jurisdiction over all areas where river improvement or drainage works are required.



Above : The Hon. C. P. Stoneham, M.L.A., releasing floodwaters from Lough Calvert after officially opening the newly completed drainage works in April this year. At the request of the Colac Shire Council, the Commission assisted in the construction of the first stage of the works to provide an urgently needed outfall from Lough Calvert where rising floodwaters had inundated thousands of acres of valuable agricultural and grazing land.



Left : Part of channel leading from Lough Calvert to Birregurra Creek. Management and completion of the works is now in the hands of the Lough Calvert Drainage Trust.



Left : Triangular crib groynes with stonemesh aprons constructed by the Avon Shire Council and the Avon River Improvement Trust to check erosion threatening a road along the banks of the Blackall Creek at Stratford.

Right : Work being carried out by the Kiewa River Improvement Trust to stop erosion of the river bank and destruction of good grazing land. The bank has been sloped and willow poles, slanting downwards, have been planted at intervals. These are being covered with brushwork held down by cross-battens to protect the bank while the willows are growing.





Above : Spraying cumbungi at Kerang. It is likely that spraying techniques will replace the cutting methods at present in use to control weed growth in irrigation channels and drains.

Right : The centre plot in this drain was cleared of cumbungi by a single spraying with the ethyl ester of 2, 4-D under the correct conditions. The photo. was taken three months after the application was made.



Right : Two weed-cutting launches will be placed in service by the Commission during the coming year. The type W.D. launch shown here is the smaller of the two, having a length of 17 feet, a hull width of 3 ft. 6 in., and a net weight of 14 cwt. It is powered by a  $4\frac{1}{2}$ -h.p. engine and propelled by paddle wheels. Its cutting speed of up to 3 miles per hour enables frequent underwater cutting of channel weeds, giving greater control at a cost that compares more than favourably with the cost of other mechanical weed-cutting methods.



Above : Officers from the Department of Agriculture, the State Rivers and Water Supply Commission, and the Soldier Settlement Commission discuss practical problems with irrigators from the Nambrok-Denison Soldier Settlement Area.

Right : Establishing an observation well in the Tongala District. Fluctuations in water table levels under irrigation districts are recorded from a series of these wells.



#### RESEARCH.

In addition to the normal investigation of the engineering, agricultural, and economic aspects of every water supply project prior to the commencement of developmental works, the Commission is carrying out extensive research into a wide variety of matters affecting the operation of irrigation and waterworks districts. The problems of weed control, channel construction and lining, the reclamation of salt affected lands, and water table problems generally, are being given particular attention. The development of new and improved techniques as a result of this work has been instrumental in reducing the cost of essential works as well as increasing operational efficiency.



# WIMMERA - MALLEE WATER SUPPLY SYSTEM

REFERENCE

- MAIN CHANNELS . . . . .
- DISTRIBUTARY CHANNELS . . . . .
- NATURAL WATERCOURSES AND LAKES . . . . .
- STORAGES . . . . .
- TOWNS SUPPLIED BY COMMISSION . . . . .
- DISTRICT BOUNDARIES . . . . .

