

1932.

VICTORIA.

STATE RIVERS AND WATER SUPPLY COMMISSION.

TWENTY-SEVENTH  
ANNUAL REPORT,  
1931-32.

PRESENTED TO BOTH HOUSES OF PARLIAMENT PURSUANT TO THE PROVISIONS OF THE  
WATER ACT 1928.

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# STATE RIVERS AND WATER SUPPLY COMMISSION.

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## ANNUAL REPORT, 1931-32.

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In compliance with the provisions of the *Water Act* 1928, the State Rivers and Water Supply Commission submits the following Report and Statement for the Financial Year 1931-32, and Estimates for the ensuing year.

WM. CATTANACH, CHAIRMAN.

E. SHAW, COMMISSIONER.

R. H. HORSFIELD, COMMISSIONER.

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### DEATH OF CHAIRMAN.

It is with deep regret and full acknowledgment of a great loss that the Commission records the death on 20th July, 1932, of Mr. William Cattanach, C.M.G., Chairman of the Commission.

At the inception of the Commission in 1906, Mr. Cattanach was selected as a Commissioner, and in 1915, when Dr. Elwood Mead, then Chairman, returned to America, Mr. Cattanach was appointed Chairman of the Commission. In a recently published statement referring to this appointment the opinion was expressed that "Never, perhaps, was a wiser choice made by any Government." His colleagues and the staff who served with Mr. Cattanach during his nine years as Commissioner and seventeen years as Chairman know full well that this opinion was undoubtedly justified. His devotion to the interests of the State commanded their respect and admiration, his personal qualities their esteem and affection. The growth of the Commission's activities during its existence has been enormous and only a man endowed with the indomitable spirit that Mr. Cattanach possessed could have carried out the heavy tasks imposed upon him as Chairman of the Commission. Having a full sense of the importance of the Commission's operations to the Government and to the rural districts throughout the State, Mr. Cattanach devoted to his work all his great ability, energy, and wonderful capacity for grasping and handling the difficult questions connected with these operations.

By the death of Mr. Cattanach, the State as a whole and water users particularly have lost an able administrator; his fellow Commissioners and the staff have lost a staunch friend and adviser; and the irrigators and landholders in the Commission's districts have lost a man of rare sympathy who was ever ready to help them in the solving of their many problems.

## WORKS UNDER CONTROL OF COMMISSION.

The following statement gives a brief description, summary of cost, and other particulars relative to the undermentioned works controlled by the Commission.

## A.—FREE HEADWORKS.

| DESCRIPTION OF WORKS.                                                                                                                                                                                                                                                                                                                                                                                                                               | Capital Debit at<br>30th June, 1932.<br>Exclusive of cost<br>of Loan Flotation. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| 1. <b>Broken River Works</b> :—Casey's Weir and offtake, with about 59 chains of channel to the Broken Creek; Gowangardie Weir with offtake sluice .. .. .                                                                                                                                                                                                                                                                                          | £<br>14,853                                                                     |
| 2. <b>Goulburn River Works</b> :—Weir on the Goulburn River, about 9 miles above Murchison; channel therefrom, about 23½ miles, to Waranga Reservoir; and that Reservoir (but exclusive of the work of its enlargement) .. .. .                                                                                                                                                                                                                     | 739,552                                                                         |
| 3. <b>Kerang North-West Lakes Works</b> :—Weir on the Loddon River at its confluence with the Pyramid Creek; regulating weirs at the effluence from the Loddon of the Sheepwash and Washpen Creeks; channel from the Washpen Creek regulator to Reedy Lake, Middle Lake, Third Lake, Lake Charm, Racecourse Lake, Cullen's Lake, Kangaroo Lake, and Lake Tutchevop, and to the Little Murray River, with water storage works at these lakes .. .. . | 25,892                                                                          |
| 4. <b>Kow Swamp Works</b> :—Intake from the Murray River with regulator, at the effluence of the Gunbower Creek; channel thence to the Kow Swamp Reservoir; and that Reservoir; channel along the northern side of the reservoir; channel from the outlet of the reservoir, about 23½ miles, to the left bank of the Loddon River .. .. .                                                                                                           | 187,944                                                                         |
| 5. <b>Lake Lonsdale Reservoir</b> :—Reservoir at Lake Lonsdale, on the Little Wimmera River, near Ledcourt .. .. .                                                                                                                                                                                                                                                                                                                                  | 49,054                                                                          |
| 6. <b>Loddon River Works</b> :—Laanecoorie Weir, on the Loddon; Bridgewater Weir, on the Loddon; Kinypanial Weir, on the Loddon .. .. .                                                                                                                                                                                                                                                                                                             | 167,789                                                                         |
| 7. <b>Long Lake Pumping Works</b> :—Inlet to Lake Baker, from the Little Murray River; water storage works at Lake Baker and Long Lake, with channel connecting these lakes; pumping plant at Long Lake, with rising main thence about 7 miles to allotment 10M, parish of Kooem; system of main distributary channels, about 85 miles in length .. .. .                                                                                            | 27,346                                                                          |
| 8. <b>Lower Wimmera Compensation Works</b> :—Drung Drung Weir, on the Wimmera, near allotment 29, parish of Longerenong; Dimboola Weir, on the Wimmera, near Dimboola township; Antwerp Weir, on the Wimmera, at Antwerp Station homestead; Jeparit Weir, on the Wimmera, near Jeparit township .. .. .                                                                                                                                             | 8,558                                                                           |
| <b>Total .. .. .</b>                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>1,220,988</b>                                                                |

## B.—MAIN SUPPLY WORKS.

IRRIGATION AND WATER SUPPLY DISTRICTS, WATERWORKS DISTRICTS,  
AND FLOOD PROTECTION DISTRICTS.

Costs Apportioned and to be Apportioned to Districts benefited.

| Name of Work.                                     | Capital Debit at<br>30th June,<br>1932. | Tentative Debits to Districts, 1931-32.          |                  |
|---------------------------------------------------|-----------------------------------------|--------------------------------------------------|------------------|
| Goulburn Main Channels (Free Headworks excluded)— | £                                       | Rodney .. .. .                                   | £120,000         |
| 1. East Goulburn Main .. .. .                     | 355,865                                 | Tragowel Plains .. .. .                          | 100,000          |
| 2. Waranga Reservoir to Campaspe .. .. .          | 390,170                                 | Rochester .. .. .                                | 74,000           |
| 3. West of Campaspe .. .. .                       | 651,487                                 | Tongala .. .. .                                  | 58,000           |
| 4. Goulburn Main Channel Distributaries .. .. .   | 10,536                                  | Shepparton .. .. .                               | 57,000           |
|                                                   | 1,407,658                               | Deakin .. .. .                                   | 24,000           |
|                                                   |                                         | Boort .. .. .                                    | 20,000           |
|                                                   |                                         | Echuca North .. .. .                             | 17,000           |
|                                                   |                                         | Dingee .. .. .                                   | 15,000           |
|                                                   |                                         | Stanhope .. .. .                                 | 15,600           |
|                                                   |                                         | South Shepparton .. .. .                         | 9,000            |
|                                                   |                                         |                                                  | £509,000         |
|                                                   |                                         |                                                  | 1,407,658        |
| Goulburn Storages—                                |                                         |                                                  |                  |
| 5. Eildon Reservoir .. .. .                       | 1,832,158                               |                                                  |                  |
| 6. Waranga Reservoir Enlargement .. .. .          | 608,801                                 |                                                  |                  |
|                                                   | 2,440,962                               |                                                  | 2,440,962        |
| Bacchus Marsh and Werribee Schemes—               |                                         |                                                  |                  |
| 7. Ballan Tunnel .. .. .                          | 21,669                                  | Werribee .. .. .                                 | 133,000          |
| 8. Pykes Creek Reservoir .. .. .                  | 142,886                                 | Bacchus Marsh .. .. .                            | 82,041           |
| 9. Melton Reservoir .. .. .                       | 85,641                                  | Werribee .. .. .                                 | £85,644          |
|                                                   | 250,199                                 |                                                  | 250,199          |
| 10. Bellarine Peninsula .. .. .                   | 347,850                                 | Waterworks Districts to be debited later .. .. . | 347,850          |
| Maffra-Sale Scheme—                               |                                         |                                                  |                  |
| 11. Glenmaggie Reservoir .. .. .                  | 660,541                                 |                                                  |                  |
| 12. Main Channels and Distributary Works .. .. .  | 543,757                                 |                                                  |                  |
|                                                   | 1,204,298                               | Irrigation Districts to be debited later .. .. . | 1,204,298        |
| Red Cliffs Scheme—                                |                                         |                                                  |                  |
| 13. Main and Distributary Channels .. .. .        | 773,736                                 | Irrigation District Progressing Debit .. .. .    | 2470,000         |
| Millewa District—                                 |                                         |                                                  | 773,736          |
| 14. Main and Distributary Channels .. .. .        | 510,811                                 | Waterworks Districts to be debited later .. .. . | 510,811          |
| Flood Protection Districts—                       |                                         |                                                  |                  |
| 15. Koo-weerup and Cardinia .. .. .               | 374,017                                 | Lower Koo-weerup and Cardinia .. .. .            | £145,000         |
| 16. Goulburn Levees .. .. .                       | 60,495                                  | Echuca, Kanyapella, and Loch Garry .. .. .       | 17,431           |
|                                                   | 434,512                                 |                                                  | 434,512          |
| <b>Carried forward .. .. .</b>                    |                                         |                                                  | <b>8,591,014</b> |

## WORKS UNDER CONTROL OF COMMISSION—continued.

Capital Debit  
at 30th June,  
1932,  
Exclusive  
of Cost of Loan  
Flotation.

£

8,591,014

Brought forward .. ..

## C.—IRRIGATION AND WATER SUPPLY DISTRICTS.

Distributary Works within Districts under the control of the Commission.

| Name of District<br>(Including Urban Divisions) | Total Capital<br>Expenditure. | Capital Written<br>Off by Acts<br>1625 and 1651. | Redemption<br>Paid to<br>Treasury. | Capital<br>Debit at<br>30th June, 1932. |
|-------------------------------------------------|-------------------------------|--------------------------------------------------|------------------------------------|-----------------------------------------|
|                                                 | £                             | £                                                | £                                  | £                                       |
| 1. Bacchus Marsh .. ..                          | 108,283                       | 8,906                                            | 493                                | 98,884                                  |
| 2. Boort .. ..                                  | 113,269                       | 35,259                                           | 1,794                              | 76,216                                  |
| 3. Calivil .. ..                                | 108,668                       | ..                                               | ..                                 | 108,668                                 |
| 4. Campaspe .. ..                               | 65,175                        | 52,685                                           | 305                                | 12,185                                  |
| 5. Cohuna and Gannawarra ..                     | 399,113                       | 82,376                                           | 1,386                              | 315,351                                 |
| 6. Deakin .. ..                                 | 95,528                        | 34,748                                           | 2,144                              | 58,636                                  |
| 7. Dingee .. ..                                 | 17,170                        | ..                                               | ..                                 | 17,170                                  |
| 8. Dry Lake .. ..                               | 1,704                         | 686                                              | 299                                | 719                                     |
| 9. Echuca North .. ..                           | 23,788                        | ..                                               | ..                                 | 23,788                                  |
| 10. Fish Point .. ..                            | 15,490                        | ..                                               | ..                                 | 15,490                                  |
| 11. Katandra .. ..                              | 103,177                       | ..                                               | ..                                 | 103,177                                 |
| 12. Kerang .. ..                                | 148,436                       | 35,338                                           | 2,334                              | 110,764                                 |
| 13. Koondrook .. ..                             | 216,249                       | 30,872                                           | 1,562                              | 183,815                                 |
| 14. Leitchville .. ..                           | 43,550                        | ..                                               | ..                                 | 43,550                                  |
| 15. Merbein .. ..                               | 219,895                       | ..                                               | 133                                | 219,762                                 |
| 16. Mystic Park .. ..                           | 17,083                        | ..                                               | ..                                 | 17,083                                  |
| 17. North Shepparton .. ..                      | 180,553                       | ..                                               | ..                                 | 180,553                                 |
| 18. Nyah .. ..                                  | 107,520                       | ..                                               | ..                                 | 107,520                                 |
| 19. Rochester .. ..                             | 324,435                       | ..                                               | ..                                 | 324,435                                 |
| 20. Rodney .. ..                                | 702,269                       | 149,949                                          | 8,967                              | 543,353                                 |
| 21. Shepparton .. ..                            | 181,553                       | ..                                               | 666                                | 180,887                                 |
| 22. South Shepparton .. ..                      | 58,904                        | ..                                               | ..                                 | 58,904                                  |
| 23. Stanhope .. ..                              | 111,575                       | ..                                               | 53                                 | 111,522                                 |
| 24. Swan Hill .. ..                             | 180,699                       | 19,799                                           | 371                                | 160,529                                 |
| 25. Third Lake .. ..                            | 25,227                        | ..                                               | ..                                 | 25,227                                  |
| 26. Tongala .. ..                               | 147,256                       | ..                                               | ..                                 | 147,256                                 |
| 27. Tragowel Plains .. ..                       | 377,964                       | 124,534                                          | 527                                | 252,903                                 |
| 28. Tresco .. ..                                | 90,411                        | ..                                               | ..                                 | 90,411                                  |
| 29. Werribee .. ..                              | 117,430                       | ..                                               | 10,242                             | 107,188                                 |
|                                                 | 4,202,374                     | 575,152                                          | 31,276                             | 3,695,946                               |

3,695,946

## D.—WATERWORKS DISTRICTS.

Distributary Works within Districts under the control of the Commission.

| Name of District<br>(Including Urban Districts). | Total Capital<br>Expenditure. | Capital<br>Written<br>Off by<br>Acts 1625<br>and 1651. | Redemption<br>Paid to<br>Treasury. | Capital Debit<br>at 30th June,<br>1932. |
|--------------------------------------------------|-------------------------------|--------------------------------------------------------|------------------------------------|-----------------------------------------|
|                                                  | £                             | £                                                      | £                                  | £                                       |
| 1. Birchip .. ..                                 | 862,263                       | 700                                                    | 2,473                              | 859,090                                 |
| 2. Sea Lake .. ..                                |                               |                                                        |                                    |                                         |
| 3. Tyrrell .. ..                                 |                               |                                                        |                                    |                                         |
| 4. Wycheproof .. ..                              |                               |                                                        |                                    |                                         |
| 5. Carwarp .. ..                                 | 43,126                        | ..                                                     | ..                                 | 43,126                                  |
| 6. Coliban .. ..                                 | 1,621,904                     | ..                                                     | ..                                 | 1,621,904                               |
| 7. Coreena .. ..                                 | 45,462                        | ..                                                     | ..                                 | 45,462                                  |
| 8. Dandenong .. ..                               | 39,651                        | 5,128                                                  | 1,506                              | 33,017                                  |
| 9. Dering .. ..                                  | 11,622                        | ..                                                     | ..                                 | 11,622                                  |
| 10. Eureka .. ..                                 | 4,018                         | ..                                                     | ..                                 | 4,018                                   |
| 11. Hindmarsh .. ..                              | 27,206                        | ..                                                     | ..                                 | 27,206                                  |
| 12. Karkarooc .. ..                              | 283,174                       | ..                                                     | 2,893                              | 280,281                                 |
| 13. Kerang North-West Lakes ..                   | 2,005                         | ..                                                     | ..                                 | 2,005                                   |
| 14. Kia .. ..                                    | 6,858                         | ..                                                     | ..                                 | 6,858                                   |
| 15. Long Lake .. ..                              | 128,488                       | ..                                                     | 1,081                              | 127,407                                 |
| 16. Mornington Peninsula .. ..                   | 821,110                       | ..                                                     | ..                                 | 821,110                                 |
| 17. Ouyen .. ..                                  | 18,765                        | ..                                                     | ..                                 | 18,765                                  |
| 18. Pyramid Hill .. ..                           | 6,239                         | ..                                                     | 1,300                              | 4,939                                   |
| 19. Tyntynder .. ..                              | 266,939                       | ..                                                     | 60                                 | 266,879                                 |
| 20. Upper Western Wimmera .. ..                  | 95,741                        | 26,567                                                 | 3,450                              | 65,724                                  |
| 21. Upper Wimmera United .. ..                   | 134,466                       | 10,918                                                 | 4,499                              | 119,049                                 |
| 22. Walpeup Districts .. ..                      | 58,695                        | ..                                                     | ..                                 | 58,695                                  |
| 23. Werribee .. ..                               | 11,636                        | ..                                                     | ..                                 | 11,636                                  |
| 24. Western Wimmera .. ..                        | 352,700                       | 106,268                                                | 13,198                             | 233,234                                 |
| 25. Wimmera United .. ..                         | 284,447                       | 25,474                                                 | 10,231                             | 248,742                                 |
| 26. Wonthaggi .. ..                              | 77,093                        | ..                                                     | 9,071                              | 68,022                                  |
| 27. Yelta .. ..                                  | 6,128                         | ..                                                     | ..                                 | 6,128                                   |
| 28. Wimmera Main Channels .. ..                  | 109,310                       | ..                                                     | ..                                 | 109,310                                 |
| 29. Wimmera Storages—                            |                               |                                                        |                                    |                                         |
| Fyans Lake .. ..                                 | 43,685                        | ..                                                     | ..                                 | 43,685                                  |
| Taylors Lake .. ..                               | 204,988                       | ..                                                     | ..                                 | 204,988                                 |
| Pine Lake .. ..                                  | 178,588                       | ..                                                     | ..                                 | 178,588                                 |
| Lake Whitton .. ..                               | 10,336                        | ..                                                     | ..                                 | 10,336                                  |
|                                                  | 5,756,643                     | 175,055                                                | 49,762                             | 5,531,826                               |

5,531,826

Carried forward .. .. 17,818,786

| WORKS UNDER CONTROL OF COMMISSION— <i>continued</i> . |                                |                                                     |                                    |                                         | Capital Debit<br>at 30th June,<br>1932.<br>Exclusive of<br>Cost of Loan<br>Flotation. |
|-------------------------------------------------------|--------------------------------|-----------------------------------------------------|------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------|
| Brought forward .. .. .                               |                                |                                                     |                                    |                                         | £<br>17,818,786                                                                       |
| E.—WATERWORKS TRUSTS DISTRICTS.                       |                                |                                                     |                                    |                                         |                                                                                       |
| DISTRICTS HELD IN TRUST BY THE COMMISSION.            |                                |                                                     |                                    |                                         |                                                                                       |
| Name of Trust.                                        | Total<br>Advances<br>by State. | Capital<br>Written Off<br>by Acts 1625<br>and 1651. | Redemption<br>Paid to<br>Treasury. | Capital Debit<br>at 30th June,<br>1932. |                                                                                       |
|                                                       | £                              | £                                                   | £                                  | £                                       |                                                                                       |
| 1. Avoca Water Trust—                                 |                                |                                                     |                                    |                                         |                                                                                       |
| Rural District .. .. .                                | 8,386                          | 2,494                                               | 2,742                              | 3,150                                   |                                                                                       |
| Urban District (Quambatook) ..                        | 4,444                          | ..                                                  | 695                                | 3,749                                   |                                                                                       |
| 2. Carrum Waterworks Trust .. ..                      | 38,800                         | 7,732                                               | 5,086                              | 25,982                                  |                                                                                       |
| 3. Loddon United Waterworks Trust—                    |                                |                                                     |                                    |                                         |                                                                                       |
| Rural District .. .. .                                | 20,186                         | 1,717                                               | 7,402                              | 11,067                                  |                                                                                       |
| Urban District (Mitiamo) ..                           | 5,158                          | ..                                                  | 200                                | 4,958                                   |                                                                                       |
|                                                       | 76,974                         | 11,943                                              | 16,125                             | 48,906                                  |                                                                                       |
| Grand Total .. .. .                                   |                                |                                                     |                                    |                                         | £17,818,786                                                                           |

#### LANDS SUPPLIED WITH WATER WITHIN THE STATE.

The area of country lands within the State artificially supplied with water for domestic and ordinary use and for watering stock is approximately 24,234 square miles, equal to about 15,510,000 acres.

The area under irrigated culture for all kinds of crops was 418,415 acres. This area, owing to heavy rainfall during the irrigation season, was 44,683 acres less than the area irrigated in the previous year.

The decrease in the area watered was almost wholly in the irrigation of cereals, due to the very wet Spring, the area under most of the other kinds of crops being slightly in excess of the corresponding figures for the previous year.

The number of separate towns supplied, exclusive of the City of Melbourne and Suburbs, is as shown in the following statement:—

| Controlling Authorities.   | Number of Towns Supplied. | Estimated Population Served. |
|----------------------------|---------------------------|------------------------------|
| Commission ... ..          | 96                        | 119,700                      |
| Waterworks Trusts ... ..   | 109                       | 193,800                      |
| Local Governing Bodies ... | 17                        | 78,000                       |
| Totals ... ..              | 222                       | 391,500                      |

## LANDS UNDER IRRIGATED CULTURE.

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

(A) STATEMENT OF THE EXTENT OF IRRIGATION AND OF AREAS OF DIFFERENT KINDS OF CROPS WATERED—YEAR 1931-32.

| Name of District.                                           | Area Irrigated (Acres). |                                    |                                        |                            |                                   |              |                |
|-------------------------------------------------------------|-------------------------|------------------------------------|----------------------------------------|----------------------------|-----------------------------------|--------------|----------------|
|                                                             | Cereals.                | Lucerne grown for Pasture and Hay. | Sorghum and other Annual Fodder Crops. | Pastures, Native and Sown. | Vineyards, Orchards, and Gardens. | Fallow.      | Miscellaneous. |
| <i>Supplied from Goulburn State Works.</i>                  |                         |                                    |                                        |                            |                                   |              |                |
| Katandra .. .. .                                            | 854                     | 4,741                              | 91                                     | 1,520                      | 60                                | 340          | 8              |
| North Shepparton .. .. .                                    | 220                     | 2,450                              | 785                                    | 835                        | 50                                | 120          | 150            |
| Shepparton .. .. .                                          | 210                     | 3,120                              | 650                                    | 1,710                      | 8,350                             | 200          | 1,150          |
| South Shepparton .. .. .                                    | 150                     | 1,920                              | 630                                    | 525                        | 20                                | 55           | 120            |
| Rodney .. .. .                                              | 1,545                   | 29,905                             | 1,827                                  | 9,876                      | 7,551                             | 1,020        | 509            |
| Stanhope .. .. .                                            | 213                     | 11,505                             | 208                                    | 696                        | 256                               | 21           | ..             |
| Tongala .. .. .                                             | 1,162                   | 13,082                             | 545                                    | 3,689                      | 1,167                             | 284          | 114            |
| Rochester .. .. .                                           | 1,334                   | 20,123                             | 1,116                                  | 14,902                     | 1,835                             | 130          | 604            |
| Echuca North .. .. .                                        | 85                      | 1,892                              | 284                                    | 634                        | ..                                | 98           | 114            |
| Dingee .. .. .                                              | 91                      | 1,782                              | 129                                    | 1,528                      | 27                                | ..           | ..             |
| Calivil .. .. .                                             | 316                     | 2,468                              | 362                                    | 662                        | 108                               | 77           | 11             |
| Tragowel Plains .. .. .                                     | 5,392                   | 2,557                              | 4,605                                  | 24,241                     | 49                                | 86           | 40             |
| Deakin .. .. .                                              | 39                      | 1,278                              | 156                                    | 177                        | 5                                 | 27           | 7              |
| Boort .. .. .                                               | 1,233                   | 497                                | 1,573                                  | 3,142                      | 6                                 | 253          | ..             |
| Totals .. .. .                                              | 12,844                  | 97,320                             | 12,961                                 | 64,137                     | 19,484                            | 2,711        | 2,827          |
| <i>Supplied from River Murray State Works.</i>              |                         |                                    |                                        |                            |                                   |              |                |
| <i>(a) Torrumbarry Weir.</i>                                |                         |                                    |                                        |                            |                                   |              |                |
| Leitchville .. .. .                                         | 352                     | 2,163                              | 108                                    | 2,627                      | 20                                | 70           | ..             |
| Cohuna .. .. .                                              | 1,378                   | 3,143                              | 739                                    | 24,091                     | 106                               | 421          | 581            |
| Gannawarra .. .. .                                          | 1,947                   | 1,600                              | 2,892                                  | 12,434                     | 54                                | 423          | ..             |
| Koondrook .. .. .                                           | 2,309                   | 1,466                              | 1,663                                  | 7,148                      | 859                               | 188          | 78             |
| Swan Hill .. .. .                                           | 2,376                   | 5,436                              | 609                                    | 3,969                      | 2,987                             | 522          | 50             |
| Third Lake .. .. .                                          | 325                     | 82                                 | 162                                    | 1,377                      | 1                                 | ..           | 10             |
| Mystic Park .. .. .                                         | 211                     | 322                                | 513                                    | 476                        | 3                                 | ..           | ..             |
| Tresco .. .. .                                              | ..                      | 67                                 | 68                                     | ..                         | 1,020                             | ..           | 3              |
| Fish Point .. .. .                                          | 20                      | 134                                | 243                                    | 1,054                      | ..                                | ..           | ..             |
| Kerang .. .. .                                              | 2,189                   | 553                                | 3,142                                  | 12,962                     | 14                                | 151          | ..             |
| Dry Lake .. .. .                                            | ..                      | ..                                 | 100                                    | 150                        | 2                                 | ..           | ..             |
| Kerang North-West Lakes .. .. .                             | 79                      | 150                                | 384                                    | 936                        | 475                               | ..           | 3              |
| Lands supplied direct (outside Districts) .. .. .           | 294                     | 793                                | 374                                    | 666                        | 22                                | ..           | 289            |
| Totals .. .. .                                              | 11,480                  | 15,909                             | 10,997                                 | 67,890                     | 5,563                             | 1,775        | 1,014          |
| <i>(b) Direct from River.</i>                               |                         |                                    |                                        |                            |                                   |              |                |
| Nyah .. .. .                                                | 50                      | 100                                | 20                                     | ..                         | 2,700                             | ..           | 30             |
| Red Cliffs .. .. .                                          | ..                      | 250                                | 150                                    | 300                        | 10,240                            | ..           | 112            |
| Merbein .. .. .                                             | ..                      | 119                                | ..                                     | ..                         | 7,484                             | ..           | 71             |
| Totals .. .. .                                              | 50                      | 469                                | 170                                    | 300                        | 20,424                            | ..           | 213            |
| Totals (River Murray State Works) .. .. .                   | 11,530                  | 16,378                             | 11,167                                 | 68,190                     | 25,987                            | 1,775        | 1,227          |
| <i>Supplied from Loddon and Other Northern State Works.</i> |                         |                                    |                                        |                            |                                   |              |                |
| Boort .. .. .                                               | 398                     | ..                                 | 162                                    | 197                        | ..                                | ..           | ..             |
| Coliban .. .. .                                             | 108                     | 560                                | 389                                    | 1,810                      | 4,954                             | 252          | 205            |
| Campaspe .. .. .                                            | 165                     | 368                                | ..                                     | 126                        | ..                                | ..           | ..             |
| Western Wimmera .. .. .                                     | ..                      | 95                                 | 113                                    | ..                         | 1,194                             | ..           | 24             |
| Totals .. .. .                                              | 671                     | 1,023                              | 664                                    | 2,133                      | 6,148                             | 252          | 229            |
| <i>Supplied from Southern State Works.</i>                  |                         |                                    |                                        |                            |                                   |              |                |
| Bacchus Marsh .. .. .                                       | 6                       | 1,884                              | 92                                     | 1,715                      | 245                               | 123          | ..             |
| Werribee .. .. .                                            | 398                     | 2,044                              | 135                                    | 3,742                      | 325                               | 910          | 775            |
| Narre Warren .. .. .                                        | 261                     | 3                                  | 68                                     | 249                        | 285                               | 116          | ..             |
| Maffra .. .. .                                              | 102                     | 1,087                              | 1,208                                  | 4,804                      | 669                               | 675          | ..             |
| Sale .. .. .                                                | 41                      | 1,771                              | 929                                    | 2,854                      | 196                               | 380          | 2              |
| Totals .. .. .                                              | 808                     | 6,789                              | 2,432                                  | 13,364                     | 1,720                             | 2,204        | 777            |
| <i>Supplied from other Works.</i>                           |                         |                                    |                                        |                            |                                   |              |                |
| First Mildura District .. .. .                              | ..                      | 493                                | 127                                    | ..                         | 10,891                            | ..           | 183            |
| Private Diversions—Kerang (outside Districts) .. .. .       | 75                      | 112                                | 128                                    | 154                        | ..                                | ..           | ..             |
| Other Private Diversions throughout the State .. .. .       | 2,000                   | 3,500                              | 3,000                                  | 2,500                      | 4,200                             | 100          | 3,200          |
| Totals .. .. .                                              | 2,075                   | 4,105                              | 3,255                                  | 2,654                      | 15,091                            | 100          | 3,383          |
| <b>Grand Totals 1931-32 .. .. .</b>                         | <b>27,928</b>           | <b>125,615</b>                     | <b>30,479</b>                          | <b>150,478</b>             | <b>68,430</b>                     | <b>7,042</b> | <b>8,443</b>   |
| Grand Totals, 1930-31 .. .. .                               | 69,694                  | 136,502                            | 29,787                                 | 144,903                    | 68,426                            | 6,447        | 7,339          |

(B) COMPARATIVE STATEMENT OF THE EXTENT OF IRRIGATION, 1927-28 to 1931-32.

| Source of Supply.                             | Area under Irrigation (Acres). |                |                |                |                |
|-----------------------------------------------|--------------------------------|----------------|----------------|----------------|----------------|
|                                               | 1927-28.                       | 1928-29.       | 1929-30.       | 1930-31.       | 1931-32.       |
| Goulburn State Works .. .. .                  | 261,812                        | 245,658        | 322,039        | 242,435        | 212,284        |
| River Murray State Works .. .. .              | 156,202                        | 160,760        | 173,642        | 156,169        | 136,254        |
| Loddon and other Northern State Works .. .. . | 14,485                         | 14,172         | 12,486         | 12,067         | 11,120         |
| Southern State Works .. .. .                  | 14,085                         | 19,888         | 25,831         | 22,662         | 28,094         |
| Mildura and Private Diversions .. .. .        | 30,916                         | 31,217         | 32,579         | 29,765         | 30,663         |
| <b>Totals .. .. .</b>                         | <b>477,500</b>                 | <b>471,695</b> | <b>566,577</b> | <b>463,098</b> | <b>418,415</b> |

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

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

During the year a rate was, for the first time, made in the Urban Waterworks District of Heyfield.

In 36 Districts the lands were, for the purpose of making and levying rates, arranged in divisions (not more than three in number), in accordance with the relative benefits derived by such lands from the works. The Lower Kooweerup, Cardinia, and Kanyapella Flood Protection Districts, where the charging is on an acreage basis, were similarly divided into divisions. As heretofore in the Urban portion of the Coliban system, a minimum and tapering rate has been made, while the Carrum Waterworks Trust District has, as in past years, been arranged in five rating divisions in accordance with the relative benefits derived by such lands from the works.

Under the powers conferred by Section 62 of the *Water Act 1928*, a minimum annual rate on the basis of £10 13s. 4d. per 640 acres was fixed by the Commission on the first division lands of the Birchip, Carwarp, Karkaroc, Long Lake, Sea Lake, Tyntynder, Tyrrell, Upper Western Wimmera, Upper Wimmera United, Western Wimmera, Wimmera United, Wycheproof, and Yelta Waterworks Districts, while in the Baring, Carwarp Central, and Kia Districts the minimum was fixed at £16 per 640 acres, in the Eureka, Hindmarsh, and Walpeup Central Districts at £18 13s. 4d. per 640 acres, in the Dering and Millewa Districts at £21 6s. 8d. per 640 acres, in the Millewa Central District at £26 13s. 4d. per 640 acres, in the Coreena District at £34 13s. 4d. per 640 acres, and in the Walpeup West Waterworks Bore District at £5 6s. 8d. per 640 acres.

In 25 Districts the Commission made and levied compulsory irrigation charges, while in five Flood Protection Districts and in five Waterworks Trusts Districts taken over by the Commission a rate or charge was also made. Details of all rates and charges made are set out hereunder :—

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

| Districts Supplied with Water for Domestic and Ordinary Use and for Watering Cattle or other Stock. | Annual Value of Lands and Tenements. | Rate in the £1 made during Year ended 30th June, 1932. | Period of Rate. | Estimated Number of Persons dwelling in District. |
|-----------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------|-----------------|---------------------------------------------------|
|-----------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------|-----------------|---------------------------------------------------|

### IRRIGATION AND WATER SUPPLY DISTRICTS

|                         |    | Valuation by Commission. | Divisions.     |       |       |                                    |       |
|-------------------------|----|--------------------------|----------------|-------|-------|------------------------------------|-------|
|                         |    |                          | 1st.           | 2nd.  | 3rd.  |                                    |       |
|                         |    | £                        | s. d.          | s. d. | s. d. |                                    |       |
| 1. BACCHUS MARSH ..     | .. | 15,929                   | 1 0            | ..    | ..    | 1st July, 1931, to 30th June, 1932 | 761   |
| 2. BOORT ..             | .. | 18,310                   | 2 0            | 1 0   | ..    | " " "                              | 659   |
| 3. CALIVIL ..           | .. | 15,468                   | 1 0            | ..    | ..    | " " "                              | 200   |
| 4. CAMPASPE ..          | .. | 10,690                   | 2 0            | 1 0   | 0 6   | " " "                              | 576   |
| 5. COHUNA ..            | .. | 23,455                   | 2 0            | 1 0   | 0 6   | " " "                              | 1,015 |
| 6. DEAKIN ..            | .. | 52,096                   | 1 8            | 0 10  | 0 5   | " " "                              | 1,680 |
| 7. DINGEE ..            | .. | 4,151                    | 1 0            | ..    | ..    | " " "                              | 200   |
| 8. DRY LAKE ..          | .. | 250                      | (No rate made) |       |       | " " "                              | 14    |
| 9. ECHUCA NORTH ..      | .. | 5,751                    | 1 0            | 0 6   | ..    | 1st July, 1931, to 30th June, 1932 | 568   |
| 10. FISH POINT..        | .. | 1,643                    | 1 0            | ..    | ..    | " " "                              | 144   |
| 11. GANNAWARRA ..       | .. | 20,216                   | 2 0            | 1 0   | 0 6   | " " "                              | 648   |
| 12. KATANDRA ..         | .. | 8,449                    | 1 0            | ..    | ..    | " " "                              | 680   |
| 13. KERANG ..           | .. | 20,969                   | 2 4            | 1 2   | 0 7   | " " "                              | 1,160 |
| 14. KOONDROOK ..        | .. | 23,249                   | 2 0            | 1 0   | ..    | " " "                              | 1,240 |
| 15. LEITCHVILLE ..      | .. | 7,708                    | 2 0            | ..    | ..    | " " "                              | 238   |
| 16. MAFFRA ..           | .. | 33,086                   | 1 0            | 0 6   | ..    | " " "                              | 1,147 |
| 17. MERBEIN ..          | .. | 26,502                   | 1 0            | ..    | ..    | " " "                              | 3,500 |
| 18. MYSTIC PARK ..      | .. | 4,732                    | 1 0            | ..    | ..    | " " "                              | 111   |
| 19. NORTH SHEPPARTON .. | .. | 42,389                   | 1 0            | ..    | ..    | " " "                              | 1,390 |

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

| Districts Supplied with Water for Domestic and Ordinary Use and for Watering Cattle or other Stock. | Annual Value of Lands and Tenements. | Rate in the £1 made during year ended 30th June, 1932. | Period of Rate. | Estimated Number of Persons dwelling in District. |
|-----------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------|-----------------|---------------------------------------------------|
|-----------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------|-----------------|---------------------------------------------------|

IRRIGATION AND WATER SUPPLY DISTRICTS—*continued.*

|                            | Valuation by Commission. | Divisions. |       |       |                                    |       |
|----------------------------|--------------------------|------------|-------|-------|------------------------------------|-------|
|                            |                          | 1st.       | 2nd.  | 3rd.  |                                    |       |
|                            | £                        | s. d.      | s. d. | s. d. |                                    |       |
| 20. NYAH .. ..             | 6,809                    | 1 0        | ..    | ..    | 1st July, 1931, to 30th June, 1932 | 1,000 |
| 21. RED CLIFFS .. ..       | 23,623                   | 1 0        | ..    | ..    | " " "                              | 2,570 |
| 22. ROCHESTER .. ..        | 67,087                   | 1 0        | 0 6   | 0 3   | " " "                              | 4,190 |
| 23. RODNEY .. ..           | 144,567                  | 1 0        | 0 6   | 0 3   | " " "                              | 5,420 |
| 24. SALE .. ..             | 18,000                   | 1 0        | ..    | ..    | " " "                              | 780   |
| 25. SHEPPARTON .. ..       | 38,909                   | 1 0        | ..    | ..    | " " "                              | 2,580 |
| 26. SOUTH SHEPPARTON .. .. | 15,117                   | 1 0        | ..    | ..    | " " "                              | 560   |
| 27. STANHOPE .. ..         | 15,085                   | 1 0        | ..    | ..    | " " "                              | 800   |
| 28. SWAN HILL .. ..        | 24,401                   | 1 0        | ..    | ..    | " " "                              | 1,500 |
| 29. THIRD LAKE .. ..       | 2,431                    | 2 0        | ..    | ..    | " " "                              | 170   |
| 30. TONGALA .. ..          | 29,318                   | 1 0        | ..    | ..    | " " "                              | 2,220 |
| 31. TRAGOWEL PLAINS .. ..  | 43,919                   | 1 0        | 0 6   | 0 3   | " " "                              | 1,730 |
| 32. WERRIBEE .. ..         | 18,879                   | 1 0        | ..    | ..    | " " "                              | 1,122 |

## WATERWORKS DISTRICTS.

|                                |         |      |      |       |                                    |       |
|--------------------------------|---------|------|------|-------|------------------------------------|-------|
| 33. AXE CREEK .. ..            | 1,683   | 2 0  | ..   | ..    | 1st July, 1931, to 30th June, 1932 | 260   |
| 34. BARING .. ..               | 1,295   | 5 0  | 2 6  | 1 3   | " " "                              | 120   |
| 35. BIRCHIP .. ..              | 40,519  | 2 4  | 1 2  | 0 7   | " " "                              | 2,660 |
| 36. CARWARP .. ..              | 9,417   | 3 10 | 1 11 | 0 11½ | " " "                              | 750   |
| 37. CARWARP CENTRAL .. ..      | 1,065   | 5 0  | 2 6  | ..    | " " "                              | 200   |
| 38. COREENA .. ..              | 12,148  | 5 0  | 2 6  | 1 3   | " " "                              | 350   |
| 39. DERING .. ..               | 2,505   | 6 0  | 3 0  | 1 6   | " " "                              | 215   |
| 40. EUREKA .. ..               | 1,802   | 4 0  | 2 0  | 1 0   | " " "                              | 115   |
| 41. HARCOURT .. ..             | 8,686   | 1 6  | ..   | ..    | " " "                              | 600   |
| 42. HINDMARSH .. ..            | 9,239   | 3 6  | 1 9  | 0 10½ | " " "                              | 234   |
| 43. KARKAROOC .. ..            | 147,990 | 2 2  | 1 1  | 0 6½  | " " "                              | 4,000 |
| 44. KERANG N.W. LAKES .. ..    | 8,074   | 0 6  | ..   | ..    | " " "                              | 585   |
| 45. KIA .. ..                  | 5,055   | 5 0  | 2 6  | 1 3   | " " "                              | 250   |
| 46. LONG LAKE .. ..            | 72,576  | 2 10 | 1 5  | 0 8½  | " " "                              | 2,330 |
| 47. MILLEWA .. ..              | 13,465  | 5 0  | 2 6  | 1 3   | " " "                              | 2,350 |
| 48. MILLEWA CENTRAL .. ..      | 9,047   | 7 6  | 3 9  | 1 10½ | " " "                              | 1,250 |
| 49. NARRE WARREN .. ..         | 3,219   | 1 0  | ..   | ..    | " " "                              | 210   |
| 50. SEA LAKE .. ..             | 67,539  | 2 8  | 1 4  | 0 8   | " " "                              | 2,420 |
| 51. TYNTYNDER .. ..            | 56,607  | 3 4  | 1 8  | 0 10  | " " "                              | 3,100 |
| 52. TYRRELL .. ..              | 103,497 | 3 4  | 1 8  | 0 10  | " " "                              | 5,630 |
| 53. UPPER WEST'N WIMMERA .. .. | 64,970  | 1 6  | 0 9  | 0 4½  | " " "                              | 1,680 |
| 54. UPPER WIMMERA UNITED .. .. | 114,257 | 1 6  | 0 9  | 0 4½  | " " "                              | 2,750 |
| 55. WALPEUP CENTRAL .. ..      | 9,178   | 5 6  | 2 9  | 1 4½  | " " "                              | 340   |
| 56. WALPEUP WEST .. ..         | 66,247  | 0 9  | 0 4½ | ..    | " " "                              | 2,350 |
| 57. WERRIBEE .. ..             | 8,156   | 2 0  | ..   | ..    | " " "                              | 140   |
| 58. WESTERN WIMMERA .. ..      | 289,758 | 1 2  | 0 7  | 0 3½  | " " "                              | 8,808 |
| 59. WIMMERA UNITED .. ..       | 344,512 | 1 2  | 0 7  | 0 3½  | " " "                              | 7,800 |
| 60. WYCHEPROOF .. ..           | 77,518  | 2 4  | 1 2  | 0 7   | " " "                              | 2,950 |
| 61. YELTA .. ..                | 2,771   | 3 4  | ..   | ..    | " " "                              | 150   |

## WATERWORKS TRUSTS.

|                              | Municipal Valuation.     |              | s. d. |                                           |       |
|------------------------------|--------------------------|--------------|-------|-------------------------------------------|-------|
| 62. AVOCA .. ..              | 34,240                   | ..           | 0 4   | 1st January, 1932, to 31st December, 1932 | 990   |
| 63. MITIAMO (URBAN) .. ..    | 866                      | ..           | 4 0   | " " "                                     | 190   |
| 64. QUAMBATOOK (URBAN) .. .. | 3,874                    | ..           | 2 6   | " " "                                     | 330   |
| 65. CARRUM .. ..             | 27,264                   | 1st Division | 3 8   | " " "                                     | 1,500 |
|                              |                          | 2nd Division | 1 10  |                                           |       |
|                              |                          | 3rd Division | 1 0   |                                           |       |
|                              |                          | 4th Division | 0 10  |                                           |       |
|                              |                          | 5th Division | 0 3   |                                           |       |
|                              | Valuation by Commission. |              |       |                                           |       |
|                              | £                        |              |       |                                           |       |
| 66. LODDON UNITED .. ..      | 96,893                   | 1st Division | 0 8   | " " "                                     | 3,520 |
|                              |                          | 2nd Division | 0 4   |                                           |       |
|                              |                          | 3rd Division | 0 2   |                                           |       |



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

| Districts Supplied with Water for Domestic and Ordinary Use and for Watering Cattle or other Stock. | Annual Value of Lands and Tenements. | Rate in the £1 made during year ended 30th June, 1932. | Period of Rate.                    | Estimated Number of Persons dwelling in District. |
|-----------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------|------------------------------------|---------------------------------------------------|
| URBAN DIVISIONS AND DISTRICTS.                                                                      |                                      |                                                        |                                    |                                                   |
|                                                                                                     | Municipal Valuation.                 |                                                        |                                    |                                                   |
|                                                                                                     | £                                    | s. d.                                                  | 1st July, 1931, to 30th June, 1932 |                                                   |
| 67. ANTWERP .. ..                                                                                   | 310                                  | .. .. 5 0                                              | .. .. ..                           | 80                                                |
| 68. BACCHUS MARSH ..                                                                                | 17,610                               | .. .. 1 6                                              | .. .. ..                           | 1,792                                             |
| 69. BERRIWILLOCK ..                                                                                 | 1,715                                | .. .. 3 6                                              | .. .. ..                           | 160                                               |
| 70. BERWICK .. ..                                                                                   | 6,373                                | .. .. 2 0                                              | .. .. ..                           | 900                                               |
| 71. BEULAH .. ..                                                                                    | 4,992                                | .. .. 2 3                                              | .. .. ..                           | 500                                               |
| 72. BIRCHIP .. ..                                                                                   | 8,339                                | .. .. 1 8                                              | .. .. ..                           | 975                                               |
| 73. BITTERN .. ..                                                                                   | 720                                  | .. .. 3 0                                              | .. .. ..                           | 90                                                |
| 74. BRIM .. ..                                                                                      | 1,520                                | .. .. 4 0                                              | .. .. ..                           | 180                                               |
| 75. BUNYIP .. ..                                                                                    | 3,544                                | .. .. 2 3                                              | .. .. ..                           | 400                                               |
| 76. CARRUM .. ..                                                                                    | 88,703                               | .. .. 1 4                                              | .. .. ..                           | 6,355                                             |
| 77. CARWARP .. ..                                                                                   | 210                                  | .. .. 5 0                                              | .. .. ..                           | 40                                                |
| 78. CHILLINGOLLAH ..                                                                                | 602                                  | .. .. 5 0                                              | .. .. ..                           | 120                                               |
| 79. CHINKAPOOK .. ..                                                                                | 690                                  | .. .. 6 0                                              | .. .. ..                           | 120                                               |
| 80. COHUNA .. ..                                                                                    | 10,055                               | .. .. 1 9                                              | .. .. ..                           | 900                                               |
| 81. COROP .. ..                                                                                     | 271                                  | .. .. 2 0                                              | .. .. ..                           | 90                                                |
| 82. CRANBOURNE .. ..                                                                                | 2,857                                | .. .. 2 0                                              | .. .. ..                           | 250                                               |
| 83. CRIB POINT .. ..                                                                                | 3,549                                | .. .. 3 0                                              | .. .. ..                           | 450                                               |
| 84. CULGOA .. ..                                                                                    | 1,537                                | .. .. 3 6                                              | .. .. ..                           | 150                                               |
| 85. DANDENONG .. ..                                                                                 | 63,334                               | .. .. 1 3                                              | .. .. ..                           | 4,500                                             |
| 86. DIMBOOLA .. ..                                                                                  | 18,501                               | .. .. 1 6                                              | .. .. ..                           | 1,638                                             |
| 87. DINGEE .. ..                                                                                    | 530                                  | .. .. 4 0                                              | .. .. ..                           | 90                                                |
| 88. DOON .. ..                                                                                      | 204                                  | .. .. 2 0                                              | .. .. ..                           | 30                                                |
| 89. FRANKSTON .. ..                                                                                 | 53,703                               | .. .. 1 4                                              | .. .. ..                           | 5,320                                             |
| 90. GARFIELD .. ..                                                                                  | 3,287                                | .. .. 2 3                                              | .. .. ..                           | 300                                               |
| 91. HASTINGS .. ..                                                                                  | 1,944                                | .. .. 3 0                                              | .. .. ..                           | 460                                               |
| 92. HEYFIELD .. ..                                                                                  | 4,991                                | .. .. 2 6                                              | .. .. ..                           | 520                                               |
| 93. HICKSBOROUGH .. ..                                                                              | 505                                  | .. .. 3 9                                              | .. .. ..                           | 100                                               |
| 94. HOPETOUN .. ..                                                                                  | 7,721                                | .. .. 2 3                                              | .. .. ..                           | 700                                               |
| 95. JEPARIT .. ..                                                                                   | 9,794                                | .. .. 1 9                                              | .. .. ..                           | 861                                               |
| 96. JUNG JUNG .. ..                                                                                 | 904                                  | .. .. 3 0                                              | .. .. ..                           | 168                                               |
| 97. KOONDROOK .. ..                                                                                 | 3,881                                | .. .. 2 6                                              | .. .. ..                           | 480                                               |
| 98. LAKE BOGA .. ..                                                                                 | 2,633                                | .. .. 3 0                                              | .. .. ..                           | 370                                               |
| 99. LALBERT .. ..                                                                                   | 980                                  | .. .. 5 0                                              | .. .. ..                           | 155                                               |
| 100. LASCELLES .. ..                                                                                | 1,331                                | .. .. 3 6                                              | .. .. ..                           | 130                                               |
| 101. LEITCHVILLE .. ..                                                                              | 2,330                                | .. .. 3 0                                              | .. .. ..                           | 211                                               |
| 102. LOCKINGTON .. ..                                                                               | 1,557                                | .. .. 3 6                                              | .. .. ..                           | 240                                               |
| 103. MANANGATANG .. ..                                                                              | 2,377                                | .. .. 3 6                                              | .. .. ..                           | 250                                               |
| 104. MARNOO .. ..                                                                                   | 1,824                                | .. .. 3 6                                              | .. .. ..                           | 250                                               |
| 105. MARONG .. ..                                                                                   | 896                                  | .. .. 3 0                                              | .. .. ..                           | 300                                               |
| 106. MERBEIN .. ..                                                                                  | 8,952                                | .. .. 3 0                                              | .. .. ..                           | 700                                               |
| 107. MERINGUR .. ..                                                                                 | 397                                  | .. .. 7 0                                              | .. .. ..                           | 115                                               |
| 108. MINYIP .. ..                                                                                   | 6,579                                | .. .. 2 9                                              | .. .. ..                           | 750                                               |
| 109. MORNINGTON .. ..                                                                               | 40,179                               | .. .. 1 4                                              | .. .. ..                           | 2,200                                             |
| 110. MOUNT MARTHA .. ..                                                                             | 6,113                                | .. .. 2 0                                              | .. .. ..                           | 165                                               |
| 111. MURRABIT .. ..                                                                                 | 265                                  | .. .. 6 0                                              | .. .. ..                           | 40                                                |
| 112. NANDALY .. ..                                                                                  | 421                                  | .. .. 6 0                                              | .. .. ..                           | 109                                               |
| 113. NATIMUK .. ..                                                                                  | 3,320                                | .. .. 1 6                                              | .. .. ..                           | 591                                               |
| 114. NORTH WONTHAGGI ..                                                                             | 4,963                                | .. .. 2 0                                              | .. .. ..                           | 1,000                                             |
| 115. NULLAWIL .. ..                                                                                 | 1,008                                | .. .. 5 0                                              | .. .. ..                           | 110                                               |
| 116. NYAH .. ..                                                                                     | 812                                  | .. .. 2 6                                              | .. .. ..                           | 170                                               |
| 117. NYAH WEST .. ..                                                                                | 4,676                                | .. .. 2 9                                              | .. .. ..                           | 310                                               |
| 118. OUYEN .. ..                                                                                    | 12,530                               | .. .. 2 6                                              | .. .. ..                           | 800                                               |
| 119. PAKENHAM .. ..                                                                                 | 6,070                                | .. .. 2 0                                              | .. .. ..                           | 650                                               |
| 120. PATCHEWOLLOCK .. ..                                                                            | 595                                  | .. .. 6 0                                              | .. .. ..                           | 155                                               |
| 121. PIANGIL .. ..                                                                                  | 1,811                                | .. .. 3 6                                              | .. .. ..                           | 240                                               |
| 122. PYRAMID HILL .. ..                                                                             | 3,458                                | .. .. 3 0                                              | .. .. ..                           | 600                                               |
| 123. RAINBOW .. ..                                                                                  | 10,198                               | .. .. 1 9                                              | .. .. ..                           | 972                                               |
| 124. RED CLIFFS .. ..                                                                               | 10,541                               | .. .. 2 6                                              | .. .. ..                           | 770                                               |
| 125. RUPANYUP .. ..                                                                                 | 5,973                                | .. .. 2 9                                              | .. .. ..                           | 650                                               |
| 126. SEA LAKE .. ..                                                                                 | 8,135                                | .. .. 2 0                                              | .. .. ..                           | 600                                               |
| 127. SOMERVILLE .. ..                                                                               | 1,735                                | .. .. 2 6                                              | .. .. ..                           | 250                                               |
| 128. SOUTH FRANKSTON ..                                                                             | 11,564                               | .. .. 2 6                                              | .. .. ..                           | 700                                               |
| 129. SPEED .. ..                                                                                    | 512                                  | .. .. 10 0                                             | .. .. ..                           | 112                                               |
| 130. SPRINGVALE .. ..                                                                               | 27,626                               | .. .. 1 6                                              | .. .. ..                           | 1,820                                             |
| 131. STANHOPE .. ..                                                                                 | 990                                  | .. .. 4 0                                              | .. .. ..                           | 300                                               |
| 132. TEMPY .. ..                                                                                    | 471                                  | .. .. 6 6                                              | .. .. ..                           | 130                                               |
| 133. ULTIMA .. ..                                                                                   | 3,115                                | .. .. 3 0                                              | .. .. ..                           | 390                                               |
| 134. WAITCHIE .. ..                                                                                 | 408                                  | .. .. 5 0                                              | .. .. ..                           | 120                                               |
| 135. WATCHEM .. ..                                                                                  | 2,268                                | .. .. 3 0                                              | .. .. ..                           | 255                                               |
| 136. WERRIMULL .. ..                                                                                | 899                                  | .. .. 7 0                                              | .. .. ..                           | 140                                               |
| 137. WONTHAGGI .. ..                                                                                | 33,496                               | .. .. 1 6                                              | .. .. ..                           | 9,000                                             |
| 138. WOOMELANG .. ..                                                                                | 2,918                                | .. .. 2 9                                              | .. .. ..                           | 417                                               |
| 139. WOORINEN .. ..                                                                                 | 494                                  | .. .. 4 0                                              | .. .. ..                           | 60                                                |
| 140. WYCHEPROOF .. ..                                                                               | 9,605                                | .. .. 2 0                                              | .. .. ..                           | 805                                               |
| 141. YAAPEET .. ..                                                                                  | 375                                  | .. .. 7 6                                              | .. .. ..                           | 108                                               |

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

| Districts Supplied with Water for Domestic and Ordinary Use and for Watering Cattle or other Stock. | Annual Value of Lands and Tenements. | Rate in the £1 made during year ended 30th June, 1932. | Period of Rate. | Estimated Number of Persons dwelling in District. |
|-----------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------|-----------------|---------------------------------------------------|
|-----------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------|-----------------|---------------------------------------------------|

## COLIBAN SYSTEM.

|                    | Municipal Valuation.<br>£ |                             | s. d. |                                    |        |
|--------------------|---------------------------|-----------------------------|-------|------------------------------------|--------|
| 142. COLIBAN .. .. | 391,651                   | On Valuations up to £300 .. | 1 6   | 1st July, 1931, to 30th June, 1932 | 61,000 |
|                    |                           | (Minimum 20s.)              |       |                                    |        |
|                    |                           | From £301 up to £700 ..     | 1 3   |                                    |        |
|                    |                           | From £701 on                | 1 0   |                                    |        |
|                    |                           | Vacant lands ..             | 1 6   |                                    |        |

## FLOOD PROTECTION DISTRICTS.

|                           | Valuation by Commission.<br>£ |                  | s. d. |                                    |       |
|---------------------------|-------------------------------|------------------|-------|------------------------------------|-------|
| 143. ECHUCA (HIGH ST.) .. | 1,454                         | .. ..            | 1 0   | 1st July, 1931, to 30th June, 1932 | 80    |
| 144. CARDINIA .. ..       | 36,206                        | Acres.           |       |                                    |       |
|                           |                               | 1st Div. (p.ac.) | 3 0   | " " "                              | 800   |
|                           |                               | 2nd Div. (p.ac.) | 1 6   |                                    |       |
|                           |                               | 3rd Div. (p.ac.) | 0 9   |                                    |       |
| 145. LOWER KOOWEERUP      | 54,834                        | 1st Div. (p.ac.) | 2 0   | " " "                              | 2,100 |
|                           |                               | 2nd Div. (p.ac.) | 1 0   |                                    |       |
|                           |                               | 3rd Div. (p.ac.) | 0 6   |                                    |       |
| 146. KANYAPELLA ..        | 14,494                        | 1st Div. (p.ac.) | 0 7   | " " "                              | 68    |
|                           |                               | 2nd Div. (p.ac.) | 0 3½  |                                    |       |
| 147. LOCH GARRY ..        | 40,886                        | Per acre ..      | 0 6   | " " "                              | 200   |

## B.—COMPULSORY IRRIGATION CHARGES.

| Irrigation and Water Supply District. | Area of District in Acres. | Area at present Irrigable in Acres. | Water Rights apportioned (including Extra Rights) in Acre-feet. | Compulsory Charge per Acre-foot of Water Right. | Period of Charge.                        |
|---------------------------------------|----------------------------|-------------------------------------|-----------------------------------------------------------------|-------------------------------------------------|------------------------------------------|
| 1. BACCHUS MARSH ..                   | 6,684                      | 3,360                               | 3,360                                                           | 22s. 6d.                                        | 1st October, 1931, to 30th April, 1932   |
| 2. COHUNA .. ..                       | 36,542                     | 22,920                              | 23,034                                                          | 6s.                                             | 1st September, 1931, to 30th April, 1932 |
| 3. DINGEE .. ..                       | 8,580                      | 4,494                               | 4,494                                                           | 7s.                                             | " " " "                                  |
| 4. ECHUCA NORTH ..                    | 13,793                     | 5,643                               | 5,712                                                           | 7s. 6d.                                         | " " " "                                  |
| 5. FISH POINT .. ..                   | 6,379                      | 3,951                               | 1,942                                                           | 8s.                                             | " " " "                                  |
| 6. GANNAWARRA ..                      | 53,509                     | 19,869                              | 19,943                                                          | 6s.                                             | " " " "                                  |
| 7. KOONDROOK .. ..                    | 62,149                     | 18,877                              | 18,877                                                          | 6s.                                             | " " " "                                  |
| 8. LEITCHVILLE ..                     | 13,232                     | 11,448                              | 3,935                                                           | 7s.                                             | " " " "                                  |
| 9. MAFFRA .. ..                       | 23,100                     | 10,259                              | 14,690                                                          | 10s.                                            | " " " "                                  |
| 10. MERBEIN .. ..                     | 8,464                      | 7,690                               | 19,225                                                          | 24s.                                            | 1st August, 1931, to 30th April, 1932    |
|                                       |                            |                                     |                                                                 | Min. 60s. per acre                              |                                          |
| 11. MYSTIC PARK ..                    | 18,764                     | 9,416                               | 3,187                                                           | 6s.                                             | 1st September, 1931, to 30th April, 1932 |
| 12. NYAH .. ..                        | 3,676                      | 3,083                               | 7,649                                                           | 20s.                                            | 1st August, 1931, to 30th April, 1932    |
|                                       |                            |                                     |                                                                 | Min. 50s. per acre                              |                                          |
| 13. RED CLIFFS ..                     | 30,874                     | 11,056                              | 27,641                                                          | 28s.                                            | " " " "                                  |
|                                       |                            |                                     |                                                                 | Min. 70s. per acre                              |                                          |
| 14. ROCHESTER ..                      | 172,219                    | 55,216                              | 55,925                                                          | 6s.                                             | 1st September, 1931, to 30th April, 1932 |
| 15. RODNEY .. ..                      | 267,772                    | 191,659                             | 62,961                                                          | 6s.                                             | " " " "                                  |
| 16. SALE .. ..                        | 15,054                     | 7,912                               | 6,736                                                           | 10s.                                            | " " " "                                  |
| 17. SHEPPARTON ..                     | 24,590                     | 21,717                              | 21,717                                                          | 6s.                                             | " " " "                                  |
| 18. SOUTH SHEPPARTON                  | 33,517                     | 18,768                              | 4,705                                                           | 8s.                                             | " " " "                                  |
| 19. STANHOPE .. ..                    | 26,003                     | 18,799                              | 18,195                                                          | 6s.                                             | " " " "                                  |
| 20. SWAN HILL .. ..                   | 36,450                     | 22,302                              | 22,302                                                          | 6s.                                             | " " " "                                  |
| 21. THIRD LAKE ..                     | 12,128                     | 4,113                               | 2,743                                                           | 7s.                                             | " " " "                                  |
| 22. TONGALA .. ..                     | 45,477                     | 28,762                              | 28,402                                                          | 6s.                                             | " " " "                                  |
| 23. TRAGOWEL PLAINS                   | 214,684                    | 147,898                             | 31,281                                                          | 7s.                                             | " " " "                                  |
| 24. TRESKO .. ..                      | 3,391                      | 2,038                               | 5,095                                                           | 40s. (per acre)                                 | 1st January, 1931, to 31st Dec., 1931    |
| 25. WERRIBEE .. ..                    | 9,960                      | 7,960                               | 7,983                                                           | 12s.                                            | 1st October, 1931, to 30th April, 1932   |

## CONTRACTS.

STATEMENT OF CONTRACTS ENTERED INTO DURING THE YEAR ENDED 30TH JUNE, 1932.

| No.  | Name of Contractor.                                                    | Work or Supply.                                      | Amount<br>(Loan and Vote.) |    |    |
|------|------------------------------------------------------------------------|------------------------------------------------------|----------------------------|----|----|
|      |                                                                        |                                                      | £                          | s. | d. |
| 2704 | Australian Cement Ltd. .. ..                                           | 200 tons Cement .. ..                                | 903                        | 6  | 8  |
| 2705 | Australian Cement Ltd. .. ..                                           | 500 tons Cement .. ..                                | 2,200                      | 0  | 0  |
| 2706 | W. Russell .. ..                                                       | Firewood, Merbein .. ..                              | 518                        | 15 | 0  |
| 2707 | F. Russell .. ..                                                       | Firewood, Merbein .. ..                              | 506                        | 5  | 0  |
| 2708 | J. H. Russell .. ..                                                    | Firewood, Merbein .. ..                              | 345                        | 16 | 8  |
| 2709 | J. A. Bettie .. ..                                                     | Firewood, Merbein .. ..                              | 172                        | 18 | 4  |
| 2710 | C. W. Austerberry .. ..                                                | Firewood, Merbein .. ..                              | 158                        | 6  | 8  |
| 2711 | M. Cairns .. ..                                                        | Firewood, Merbein .. ..                              | 158                        | 6  | 8  |
| 2712 | I. T. Storer .. ..                                                     | Firewood, Merbein .. ..                              | 147                        | 18 | 4  |
| 2713 | W. Garrigan .. ..                                                      | Firewood, Millewa .. ..                              | 157                        | 10 | 0  |
| 2714 | A. B. Parker .. ..                                                     | Firewood, Millewa .. ..                              | 700                        | 0  | 0  |
| 2715 | E. E. Murphy .. ..                                                     | Firewood, Millewa .. ..                              | 254                        | 2  | 6  |
| 2716 | E. M. Holmes .. ..                                                     | Firewood, Millewa .. ..                              | 237                        | 10 | 0  |
| 2717 | H. A. Blackburn .. ..                                                  | Firewood, Millewa .. ..                              | 254                        | 2  | 6  |
| 2718 | A. B. Parker .. ..                                                     | Firewood, Millewa .. ..                              | 99                         | 0  | 9  |
| 2719 | R. A. Harding .. ..                                                    | Firewood, Millewa .. ..                              | 95                         | 0  | 0  |
| 2720 | Hume Pipe Co. (Aust.) Ltd. .. ..                                       | Lining of Steel Pipes (Bellarine Peninsula) .. ..    | 1,948                      | 13 | 7  |
| 2721 | K. Morris .. ..                                                        | Firewood, Millewa .. ..                              | 306                        | 5  | 0  |
| 2722 | J. R. Hocking .. ..                                                    | Firewood, Coreena .. ..                              | 50                         | 0  | 0  |
| 2723 | G. J. Hocking .. ..                                                    | Firewood, Coreena .. ..                              | 50                         | 0  | 0  |
| 2724 | H. Smythe .. ..                                                        | Firewood, Coreena .. ..                              | 50                         | 0  | 0  |
| 2725 | Hume Steel Ltd. .. ..                                                  | Pipes, Bellarine Peninsula .. ..                     | 21,683                     | 2  | 0  |
| 2726 | Australian Wood Pipe Co. Ltd. .. ..                                    | Wood Stave Pipes, Bellarine Peninsula .. ..          | 415                        | 16 | 0  |
| 2727 | J. A. Cameron .. ..                                                    | Firewood, Millewa .. ..                              | 260                        | 15 | 6  |
| 2728 | Australian Cement Ltd. .. ..                                           | 1,500 tons Cement .. ..                              | 6,600                      | 0  | 0  |
| 2729 | A. E. Harding .. ..                                                    | Firewood, Millewa .. ..                              | 97                         | 17 | 0  |
| 2730 | D. E. Harding .. ..                                                    | Firewood, Millewa .. ..                              | 95                         | 0  | 0  |
| 2731 | Australian Cement Ltd. .. ..                                           | 2,000 tons Cement .. ..                              | 8,800                      | 0  | 0  |
| 2732 | W. Webb .. ..                                                          | Firewood, Millewa .. ..                              | 225                        | 0  | 0  |
| 2733 | Australian Wood Pipe Co. Ltd. .. ..                                    | Wood Stave Pipes, Mornington Peninsula .. ..         | 28,619                     | 7  | 5  |
| 2734 | Mephan Ferguson Pty. Ltd. .. ..                                        | Pipes, Mornington Peninsula .. ..                    | 1,256                      | 9  | 6  |
| 2735 | Walter Bye .. ..                                                       | Excavation and construction, Jeparit Reservoir .. .. | 693                        | 15 | 0  |
| 2736 | J. Nixon & Sons .. ..                                                  | Cast Iron Fittings .. ..                             | 384                        | 0  | 2  |
| 2737 | Mephan Ferguson Pty. Ltd. .. ..                                        | Pipes, Bellarine and Mornington .. ..                | 13,994                     | 10 | 0  |
| 2738 | Mephan Ferguson Pty. Ltd. .. ..                                        | Cast Iron Pipes .. ..                                | 1,071                      | 1  | 7  |
|      | Sundry small contracts at piece-work rates—Distributary channels .. .. | .. ..                                                | 9,943                      | 0  | 0  |
|      | Total .. ..                                                            | .. ..                                                | 103,453                    | 11 | 10 |

## DIRECT LABOUR.

The construction of the larger works is still being mainly carried out by "Direct Labour," a portion of the expenditure being met from Unemployment Relief Funds. The principal payments during the year were:—

| Works.                                                                      | Amount.  |
|-----------------------------------------------------------------------------|----------|
| River Murray Storages (Hume Reservoir and Traffic Diversions) .. ..         | £52,624  |
| Wimmera-Mallee System .. ..                                                 | 31,764   |
| Eildon Reservoir .. ..                                                      | 20,150   |
| Campaspe and Loddon Rivers Storages .. ..                                   | 15,721   |
| Bellarine Peninsula .. ..                                                   | 15,598   |
| Rochester, Rodney, Shepparton, Stanhope, and Tongala Districts .. ..        | 12,537   |
| Maffra District (Glennaggie Reservoir) and Sale District .. ..              | 9,029    |
| Goulburn Main Channels .. ..                                                | 8,703    |
| Merbein, Millewa, Red Cliffs, Coreena, Carwarp, and Walpeup Districts .. .. | 6,916    |
| Mornington Peninsula .. ..                                                  | 6,191    |
| Cohuna, Kerang, Kerang Lakes, Koondrook, and Mystic Park Districts .. ..    | 4,865    |
| Bacchus Marsh and Werribee Districts .. ..                                  | 4,745    |
| Coliban District .. ..                                                      | 3,467    |
| Other Districts .. ..                                                       | 3,443    |
| Kooweerup, Cardinia, and Other Flood Protection Districts .. ..             | 3,182    |
| Boort, Tragowel Plains, Nyah, and Swan Hill Districts .. ..                 | 2,727    |
| Unemployment Relief Expenditure in various Districts .. ..                  | 2,434    |
| Total .. ..                                                                 | £204,096 |

## WORKS CARRIED ON OR COMPLETED DURING THE YEAR ENDED 30TH JUNE, 1932.

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In Districts generally, all demands for water were fully met.

On account of the continued need for economy, the carrying out of works was reduced to a minimum, and administration costs were cut as low as possible.

Set out in the following pages are the chief items of interest relating to each respective District.

### COLIBAN SYSTEM.

From this system water is supplied to the City of Bendigo, the important towns of Castlemaine, Eaglehawk, and Maldon, and to other towns adjoining. Irrigation supplies are also given to lands in the surrounding districts.

A number of works was completed during the year, the most important being the new reinforced concrete regulating outlet tower at Spring Gully Reservoir. Other works completed or in progress include the carrying out of improvements to the Main Channel in Bendigo and Harcourt Districts, the construction of the High-Level Race to Specimen Hill Reservoir, the cement concrete lining of the open cut on the Harcourt Main Race at Lang's Tunnel, the replacement with a reinforced concrete syphon of a timber flume on the same Race at Salathiel's, the enlargement and lining of a section of the Golden Point High-Level Race, and the improvement of the water supply to East Bendigo by the laying of a 9-inch diameter water main, three-quarters of a mile in length.

The water supply to Castlemaine was materially improved by the replacement of some existing mains with larger pipes, and by the scraping of certain other mains.

A continuous supply of water for sluicing has again been made available to help gold seekers, and has been much appreciated.

To assist in meeting the increasing demand for water from the Coliban System, the minimizing of losses of water from the channels, by regrading and concrete lining, is of utmost importance. This work is being gradually carried out as far as funds will permit.

### IRRIGATION AND WATER SUPPLY DISTRICTS.

#### RODNEY DISTRICT.

During the irrigation season in this District, a record demand for water was made in some two dry months in mid-summer, but all requirements were satisfied.

Works carried out were limited to the replacement, with modern concrete structures, of a number of old outlets in the original Trust channels. Several sections of channel were strengthened and enlarged, and a new spur was constructed from the Waranga-Kyabram Main Channel to the Ryan Channel.

A commencement was also made with the work of cleaning out and enlarging, by excavator, of the Wyuna Drainage Channel.

#### DISTRICTS ADMINISTERED FROM SHEPPARTON CENTRE.

In the Shepparton District, a new outfall to the No. 3 Drainage Channel has been constructed, and a small drainage channel, to divert surplus irrigation and drainage waters from the eastern boundary of Shepparton Township, was made and proved satisfactory. A number of test holes was sunk on various properties in connexion with an investigation to ascertain the cause of the serious loss of fruit trees in portion of the District.

To provide irrigation supplies to additional lands in the North Shepparton District, the extension of the Narioka Main Channel and the construction of Spur Channels N/1, N/2, and N/3, involving 12 miles of channel and a number of bridges and other structures, were undertaken. Drainage works consisting of 4 miles of minor channels were also carried out.

The location and survey of the North Shepparton and Katandra Drainage Outfall Channel was made with a view to the early commencement of the work.

In the Katandra District, the construction of the No. 4 Drainage Channel was put in hand, 1 mile 60 chains being completed. The internal drainage system has also been extended by the formation of  $2\frac{1}{2}$  miles of minor channels.

## SWAN HILL DISTRICT.

A large flow of water in the River Murray and in the Kerang Lakes System caused flooding of certain lands in this District in July, 1931, but owing to strenuous work by the Commission's officers, assisted by settlers and townspeople, serious damage was averted. In February last considerable harm was done to lucerne and fruit crops as a result of excessive local rainfall.

The dried fruit crop was about 2,400 tons.

## DISTRICTS ADMINISTERED FROM KERANG CENTRE.

In Kerang District, drainage subways were constructed on Nos. 10 and 11 Macorna North Distributary and on Kerang East No. 2A Channels, and a new regulator to more effectively control the distribution of water was built at Tragowel.

The work of reconditioning the Main Macorna Channel flumes at the Nine Mile and Calivil Creeks was put in hand and should be completed before the coming irrigation season.

At Murrabit and Benjeroop additional branch drainage channels were constructed and connected with the existing stormwater drainage system.

Water supplies in the Koondrook and Murrabit Urban Systems were maintained without interruption.

## DISTRICTS ADMINISTERED FROM COHUNA CENTRE.

Irrigation requirements for lands in the Cohuna, Gannawarra, and Leitchville Districts were met with water gravitated from the River Murray by regulation at the Torrumbarry Weir. The drainage system near the Pyramid Creek was extended by the construction of a new drainage channel, about 2 miles in length, to serve an area of about 1,300 acres.

## DISTRICTS ADMINISTERED FROM LODDON CENTRE.

The wet winter of 1931 caused considerable flooding of lands in this area, particularly at the south end in the neighbourhood of Dungee. To provide relief for the landholders affected, certain works, including the provision of an increased floodway crossing at the junction of the Bullock Creek with the Waranga Western Main Channel, were undertaken. Maintenance works of a necessary nature were also carried out.

## BOORT DISTRICT.

The improvement, by irrigators, in the grading of their lands and in the efficiency of their private distributary channels was continued. The area of land under lucerne and other permanent pastures has been increased from 572 acres to 859 acres. In the Loddon United area west of the Loddon River all dams were filled, and, in the Loddon-Avoca Section of the Waranga Western Main Channel, a regular flow of water was maintained. Works carried out were confined to urgent maintenance requirements and some necessary new structures.

## DISTRICTS ADMINISTERED FROM ROCHESTER CENTRE.

In Rochester and Echuca North Districts, improvements were made to existing drainage schemes, including the extension of the Bamawm drainage system by the construction of  $1\frac{1}{2}$  miles of channel. To minimize flooding on the Echuca Highway and adjacent properties, the 3-foot diameter syphon carrying the Restdown Channel was extended by 150 feet, and the syphon on a spur from the same channel was lengthened by 75 feet. Three new large drainage syphons were installed in the Willow Grove Estate, and some investigations and surveys were made following requests from landholders for irrigation supplies and drainage facilities.

The water supply to the Campaspe District was improved as a result of the remodelling, by means of a dragline excavator, of 2 miles 50 chains of the Eastern and 3 miles 60 chains of the Western channels.

## DISTRICTS ADMINISTERED FROM TONGALA CENTRE.

In Tongala District, 60 chains of channel and four bridges were constructed to provide drainage for the balance of the D. McLeod's Closer Settlement Estate, while  $1\frac{1}{2}$  miles of old channel were cleaned of silt and three road culverts installed for the drainage of about 1,100 acres of closer settlement lands north of Tongala. Other minor drainage works were carried out and surveys made in connexion with the construction of about 10 miles of proposed new drainage channels. The work of enlarging the Wyuna Main Channel for a distance of  $10\frac{1}{2}$  miles was completed, and resulted in the watering, even at peak periods, being carried out without difficulty.

In Stanhope District, a small channel was constructed to supply a subdivision at the Girgarre School, and about 2 miles of drainage channel were cleaned of silt and rushes by means of a dragline excavator. In the Stanhope Urban Division the pipe line in the main street was replaced with pipes of a larger diameter, and the work of direct coupling the pump with the main was put in hand.

#### BACCHUS MARSH AND WERRIBEE DISTRICTS.

The new service basin at Grant's Gully, constructed to improve the water pressure in the Bacchus Marsh Urban Division, was connected to the township reticulation system by means of a 9-inch diameter concrete-lined steel pipe main about 27 chains in length.

Shafts Nos. 4, 5, and 6 on the Pykes Creek Tunnel were strengthened by concrete lining, and, to regulate the flow of water from the tunnel, a stone pitched channel, 40 chains long, was constructed in the bed of Myers Creek. On the new road necessitated by the enlargement of the Pykes Creek Reservoir, 66 chains of fencing were erected.

In Werribee District, the watering in the peak period of the irrigation season was carried out expeditiously, the improvement resulting from the concrete lining of channels in recent years being very pronounced. Twenty-five chains of drainage channels were constructed, and twelve new wheel outlets and nine channel crossings were installed. Notwithstanding the ruling low prices for produce, irrigators generally made steady progress on their holdings. Water supplies for domestic and stock purposes were, as usual, provided for lands in the Waterworks District as well as in the Irrigation area.

#### MERBEIN DISTRICT.

A heavy demand for water was made during the heat wave experienced in this District in January last, and the pumping plant and channel system were taxed to full capacity. A complete survey of channels is now proceeding with a view to future improvements being made to expedite irrigations under abnormally hot weather conditions.

Good prices are being obtained for dried fruits, and the District generally is making progress.

Full water supplies were made available to meet the requirements of residents of the Merbein Urban District.

#### RED CLIFFS DISTRICT.

All water supply requirements for irrigation in this District were fully met, notwithstanding an exceptionally hot dry period in December and January. Although materially reduced by losses occasioned by the heat wave, the dried fruits crop totalled 12,000 tons, and, with good prices being maintained overseas, the District is experiencing a period of comparative prosperity. There is, consequently, a strong demand for fruit blocks, but there are few sellers.

Residents within the Red Cliffs Urban Division were provided with ample water supplies.

#### NYAH DISTRICT.

Heavy rains during the irrigating period resulted in a lower demand for water in this District. In the three waterings given, the quantity of water pumped was equal to a depth of 30 inches over the irrigable area.

#### MYSTIC PARK, TRESKO, AND FISH POINT DISTRICTS.

A full water supply was provided for all irrigators in the Mystic Park District.

In Tresko District, the work of remodelling several channel structures was carried out. On account of heavy rains during the irrigation season, the demand for water was not as great as usual. Three waterings were given, the volume pumped, expressed in depth over the area irrigated, being 35 inches.

In Fish Point District, several channel structures were remodelled. Rotational waterings were given to suit requirements under water rights.

#### KERANG NORTH-WEST LAKES DISTRICT.

Early in July, 1931, very heavy floods were experienced in this District. To prevent the flooding of the reclaimed lands of the Lake Baker Agricultural College Reserve, a floodway from Lake Boga to the Little Murray River, capable of handling the full flood volume, was formed on the low ground between the Lake Boga Inlet and a private levee bank known as the Fisher Levee. The Boga-Baker Levee was also strengthened, and the peak of the flood was passed

without any resultant damage. A permanent floodway from Lake Boga to the Little Murray River is now in course of construction, while proposals for relief floodways across Pental Island, one across the eastern end of the island opposite the Loddon River, and one opposite Lake Boga, have been made and are being examined.

During the irrigation season the North-West Lakes storages were maintained at or near full supply level by a carefully regulated supply from the Torrumbarry Weir.

#### MAFFRA-SALE DISTRICTS.

The development of these Districts as a result of irrigation has been maintained, a record area of 14,718 acres being under irrigated culture. The improved methods used in the application of water are showing good results in crops generally, an outstanding instance being a yield of 34 tons of sugar beet to the acre.

The increased demand for irrigation supplies in the Sale District necessitated a higher water level in the channels than hitherto, and this caused some breaks in hillside channels in certain classes of country. Repairs enabled the supply to be resumed, and, at the close of the watering season, the construction of a concrete cut-off wall along the sections affected was put in hand to ensure permanence. A section of 35 chains of the Main Northern Channel in the hill country is being concrete-lined to reduce leakage and to increase the capacity of the channel.

Remodelling to increase the capacities of the Boisdale-Maffra, Boisdale-Sale, and Main Sale channels is being proceeded with, 2 miles having already been completed. On the Boisdale-Stratford channel, two 6-foot diameter syphons have been constructed to provide flood crossings, and another syphon and two drainage crossings under the channel will be installed.

The reticulated supply to the township of Heyfield is now in full working order.

In the Maffra District, 4 miles 20 chains of new channels were constructed and 3 miles 20 chains of existing channels were remodelled, while in the Sale District 3 miles 50 chains of drainage channels have been provided. Surveys of considerable extensions to channel systems, asked for, have been put in hand, chiefly in the Tinamba District.

#### INVESTIGATIONS OF NEW IRRIGATION AND WATER SUPPLY PROPOSALS.

In connexion with the proposed supply of water from the Hume Reservoir on the River Murray for the irrigation of lands in the Rutherglen, Yarrawonga, and Cobram areas, contour surveys for the location, when required, of the necessary distributary channels were further extended. The boring and shaft sinking investigations into the foundations of the proposed diverting Weir at Yarrawonga were completed with satisfactory results, and preliminary surveys have been made of the lands likely to be submerged or alienated by the construction of the weir. The preliminary surveys were finalized in connexion with the investigation as to the possibility of increasing the storage capacity of the Laanecoorie Reservoir on the Loddon River. Surveys are being carried out in the Cohuna District to determine the area of lands improved by the construction of drainage channels, while investigations have been undertaken along the Barr Creek to ascertain the possibilities of providing additional outfall for the surplus irrigation water from the Leitchville, Cohuna, and East Kerang areas. In the Merbein District, surveys have been commenced in regard to a proposal to make improvements to the existing irrigation channel system. Investigations are being made with a view to submitting a scheme for providing water, for limited irrigation purposes, from the Barwon River catchment to areas in the vicinity of Lara and Little River and north-west of Werribee.

The proposed scheme, referred to in the last Annual Report, for a reticulated water supply to towns in the Western District has been accepted by the residents of Camperdown and Terang and the City of Warrnambool, and the work will be commenced as soon as the necessary funds are provided. The supply will be drawn from the Arkins Creek branch of the Carlisle River in the Otway Ranges, where ample volumes of water of excellent quality are available, and will be conveyed by means of an open race and some 70 miles of main supply pipes to the towns concerned.

In connexion with the pipe reticulated water supply to the township of Newstead near Castlemaine, the scheme submitted by the Commission was accepted by the residents, and construction works will be commenced at an early date. This supply will be obtained from the Jim Crow Creek, a tributary of the Loddon River, and conveyed by means of 13 miles of open channel and pipe syphons to a service basin about 1 mile south of the township, from which basin water will be distributed through a 6-inch diameter main pipe to the reticulation system.



## WATERWORKS DISTRICTS.

## CARWARP AND CARWARP CENTRAL DISTRICTS.

The usual annual run of water, to fill tanks for domestic and stock purposes, was made and all requirements of the Districts were met.

## COREENA DISTRICT.

At the request of settlers, whose tanks had been substantially filled by the unusually abundant rains at the beginning of winter, pumping was not carried out in this District during the year.

## YELTA DISTRICT.

Water was run in all channels in this District, and all dams were filled to meet domestic and stock requirements.

## WIMMERA-MALLEE WATER SUPPLY.

The favorable season experienced during the past year caused a good growth of covering vegetation which had the effect of keeping sand drift within reasonable bounds, and it is expected that the coming season will be equally good. It is, however, certain that the problem of sand drift will become more acute in years of average and light rainfall as the natural cover is cleared and the land in the newer areas becomes better cultivated. The Committee, appointed by the Honorable the Minister of Water Supply, to investigate possible means of minimizing sand drift, views very seriously the Commission's position with regard to the future operations of the water supply system. Without some method of controlling the menace, it is feared that consideration must be given to the question of abandoning certain minor channels, thus necessitating the stoppage of water supply by this means to the specially difficult areas served by such channels. In such cases the provision of artificial catchments to give the necessary water supplies might have to be considered.

The Glenelg River diversion channel, completed last year, has proved a very valuable additional source of supply to the Wimmera-Mallee System and shows that this catchment is capable of much greater development.

The work of enlarging and improving Lake Lonsdale Reservoir was undertaken with funds provided under the Unemployment Relief Act. This work which, when completed, will increase the storage capacity of the reservoir from 45,480 acre feet to 53,290 acre feet, involved the construction of a puddle trench of some 80 chains throughout the crest of the earthen embankment. In addition, the concrete spillover weir has been lengthened and raised 15 inches, together with the widening and deepening in rock of the bywash. It is anticipated that this work will be completed in the next few months ready to store the additional volumes of water.

Owing to the necessity for increasing the water supply to the Township of Horsham, where supplies have had to be regulated each summer, a proposal, providing for an ample supply from a new high-level pipehead basin installed on the flank of Mount Zero and which will be supplied by a contour channel connecting to the existing Burnt Creek outlet from the Wartook Reservoir, has been accepted by the local Waterworks Trust and will be put in hand during the coming year. The works involved are the construction of 22 miles of channel and the provision of 13 miles of 18-inch diameter pipe main.

During the year a commencement was made with the construction of a channel to supply water from Taylors and Pine Lakes Storages to the existing irrigation areas around Horsham, and to provide for further extensions of irrigation in the locality. This channel will enable water to be delivered to the consumer at short notice at a time when most required, as the reservoirs referred to are within 3 to 12 miles of the country at present irrigated. This supply will obviate the present uneconomical distributary from the Wartook Reservoir, 60 miles distant, through the McKenzie River and other natural watercourses, and will result in the saving of about 5,000 acre feet of water per annum. In view of this and of the fact that water is available from the Glenelg River diversion channel, the Commission has agreed to irrigation extensions in compact areas adjacent to the Horsham Centre. As this irrigation channel crosses the natural outlet of Green and Dock Lakes, in embankment, advantage has been taken to utilize the channel bank in forming the first stage (7,000 acre feet) of a storage reservoir of some 20,000 acre feet at practically no additional cost. This storage is commanded by the Glenelg River diversion channel and will be used in connexion with the irrigation development in the vicinity of Horsham.



Full supplies of water for domestic and stock purposes were run through the 6,120 miles of channels to all holdings in the area of 11,000 square miles which now comprises the system. In addition, abundant water supplies were provided for the towns controlled by local Waterworks Trusts as well as for the following Urban Districts which have pipe reticulation systems controlled by the Commission, and number 37 in all :—

|               |             |           |               |            |
|---------------|-------------|-----------|---------------|------------|
| Antwerp       | Dimboola    | Marnoo    | Patchewollock | Ultima     |
| Berriwillock  | Dooen       | Minyip    | Quambatook    | Waitchie   |
| Beulah        | Hopetoun    | Nandaly   | Rainbow       | Watchem    |
| Birchip       | Jeparit     | Natimuk   | Rupanyup      | Woomelang  |
| Brim          | Jung Jung   | Nullawil  | Sea Lake      | Woorinen   |
| Chillingollah | Lalbert     | Nyah West | Speed         | Wycheproof |
| Chinkapook    | Lascelles   | Ouyen     | Tempy         | Yaapect    |
| Culgoa        | Manangatang |           |               |            |

WESTERN WIMMERA, UPPER WESTERN WIMMERA, WIMMERA UNITED, UPPER WIMMERA UNITED, KARKAROOC, AND HINDMARSH DISTRICTS.

Owing to the financial situation, no new channels of any consequence were constructed during the year, the chief works undertaken being the enlargement of the Brickle and other main channels to provide better distribution and thus expedite the general watering.

To meet increasing water supply requirements, a new storage of 30,000 cubic yards capacity is being constructed for the supply to the township of Jeparit. Further extensions were completed to the Rupanyup storages, while at Dimboola works are in hand for renewing certain water mains, some of which have been laid for 50 years.

BIRCHIP, WYCHEPROOF, SEA LAKE, DERING, EUREKA, BARING, WALPEUP CENTRAL, KIA, TYRRELL, LONG LAKE, AND TYNTYNDER DISTRICTS.

On the Boorong Channel, where serious sand drifts have at times been experienced, remodelling works were undertaken to shorten the route of the channel by cuttings and embankments, special steps being taken to protect the cuttings from future drift. A saving of a considerable expenditure in sand cleaning will result from this work.

Similar works were also put in hand on the Yungera channel, and remodelling of various channels throughout these Districts was carried out.

A work which must be undertaken before next watering season is the enlargement of the Wycheproof-Goschen and Tyrrell West Main Channels, rendered necessary by the excessive seepage which has been experienced owing to these channels being run above their natural full supply levels.

The construction of a new storage for the Urban District of Nyah West is in progress, and enlargements have been made to the storages at Speed, Quambatook, and Chinkapook. Extensions to mains in Birchip and other Urban Districts were carried out, and an auxiliary engine was provided to cope with the increasing demands at Berriwillock.

The proposal submitted for a pipe reticulated water supply to the township of Walpeup has been accepted by the residents, and it is intended to carry out the work as funds permit.

MORNINGTON PENINSULA DISTRICTS.

The construction of an outlet channel from the new Eumemmerring Reservoir at Hallam has been commenced, and tenders for the supply and laying of the cross-country pipe line, known as the Hallam-Chelsea Pipe Line, for the reinforcement of the existing water supply to the bayside townships from Frankston to Aspendale, were accepted, the manufacture of the pipes being now in hand. The water from the reservoir will be delivered to twin service basins at the corner of the Princes Highway and the Hallam-road, and the pipe line, approximately 12 miles long, is to be made up of  $3\frac{3}{4}$  miles of 24-inch diameter,  $2\frac{3}{4}$  miles of 21-inch diameter, and  $5\frac{1}{2}$  miles of 18-inch diameter pipe mains.

The route of the line is from the service basin along the Princes Highway to Dandenong, thence along Brighton Road and Chapel Road via Chelsea Road to Point Nepean Road to the junction at Chelsea with the existing 12-inch diameter pipe main along the foreshore from Frankston to Mordialloc.

The area traversed by the new pipe line is, for practically the whole distance, devoted largely to poultry farming and intensive culture on small holdings, and considerable revenue from sales of water *en route* is anticipated.

The embankment of the Eumemmering Reservoir is now being raised to increase the storage capacity from 1,000 acre feet to 2,000 acre feet.

The pumping plant at Seaford installed by the Frankston Shire Council worked satisfactorily during the summer months, and the Commission's No. 9 dragline excavator completed the enlargement work in the Kanannook Creek as desired by the Council. The Eel Race Road Channel was also completed and connected to the Kanannook Creek at Carrum. This permits the surplus water from portion of the Carrum District to enter the creek at Carrum and discharge at Frankston, and will provide a valuable flushing stream for the creek during the winter months.

#### BELLARINE PENINSULA WATER SUPPLY SCHEME.

The works of this scheme have so far advanced that water supplies will be available to Queenscliff and Point Lonsdale before the coming summer.

The 16-inch and 14-inch diameter pipe line from the Geelong offtake to the main storage basin south of Drysdale is practically completed. From this storage, mains have been laid to the Queenscliff service basin, and the installation of the supply main and the town reticulation is now well in hand.

In connexion with the reticulation of Ocean Grove and Barwon Heads, tenders have been invited for the supply of pipes which will be laid in the near future.

Some 250,000,000 gallons of water were supplied from this system to the Geelong Waterworks and Sewerage Trust during the year under review.

#### WONTHAGGI DISTRICT.

The water in the Lance Creek Reservoir was again successfully treated with copper sulphate to keep in check the algal growths. The quality of the water supply to the township has been much improved since the installation of the chemical clarifying plant at the Service Basin at Wonthaggi. The main pipe line was cleaned out, and several reticulation extensions were made.

#### NORTHERN MALLEE WATER SUPPLY.

In the Northern Mallee areas, adjoining those supplied by the Wimmera-Mallee Scheme, but above the levels of its channels, a considerable amount of work has been done in opening up new country by cutting tracks, clearing, and grubbing roads, and in providing tanks, bores, and other means of water supply for contractors and new settlers.

#### BORES.

The total number of Government bores supplying water to settlers in the Northern Mallee is 109.

#### TANKS.

There are in the Mallee areas 260 public earthen tanks of total storage capacity of 1,209,617 cubic yards, equal to 204,425,000 gallons. Of these tanks, 61 are in the County of Millewa, and have a total storage capacity of 125,268 cubic yards, equal to 21,170,000 gallons.

#### ARTIFICIAL CATCHMENTS.

In the Northern Mallee, in areas which cannot be economically served by an ordinary channel system, the Commission has constructed in recent years twelve artificial catchments, of which six of sheet iron and three of a bitumen mixture similar to that used in South Australia are still under the control of the Commission. These catchments, which discharge into watertight covered storages, have again proved satisfactory. Two temporary catchments, installed in connexion with Unemployment Relief Works, were dismantled, the works having been completed, and the first experimental catchment was sold to the holder of the allotment on which it was put down.

#### WINDMILLS.

The windmills and hand pumps, erected by the Commission at suitable points along the River Murray for the purpose of supplying soldier settlers on the Murray frontages, have operated successfully during the year.

#### ROADS.

The total length of roads grubbed and cleared by the Commission in the Mallee is 6,276 miles.

## MILLEWA AND MILLEWA CENTRAL WATERWORKS DISTRICTS.

The eighth annual watering has been carried out successfully, and all requirements for domestic and stock purposes were met.

The most suitable time for the commencement of the annual watering in Districts such as these would appear to be not later than the 1st of May. The current year's run commenced on that date, and was completed in a period four weeks shorter than previous years when starting was delayed until June. Very considerable savings were thus effected.

The pipe-reticulated water supplies for the Urban Districts of Werrimull and Meringur were successfully operated during the year.

## DRAINAGE AND FLOOD PROTECTION SCHEMES.

## KOOWEERUP AND CARDINIA.

Operations in the Kooweerup and Cardinia Districts have been confined during the year to maintenance work generally.

In the two Districts, approximately 50 miles of drains have been remodelled and about 15 miles regraded, and the Main Canal reserve and 20 miles of subsidiary drains were treated for the destruction of noxious weeds and rabbits. The banks of McDonald's Drain have been strengthened, and a more permanent spillover was constructed in timber and stone at Wright's Road for the Toomuc Creek discharge.

Repairs to structures included redecking the part or whole of nineteen road bridges, additions and alterations to sixteen concrete drainage outlets, and minor work pertaining to fencing, swing gates, and pipe culverts.

A caterpillar dragline excavator has been purchased and is being assembled by the Commission for use in cleaning out the larger drainage channels in these Districts.

The removal of coarse clean sand from the Kooweerup Main Canal by privately owned suction plants, operating under an arrangement with the Commission, has been reduced to 12,000 tons during the year, owing to the loss of business on account of rail freight charges and road competition. The total output to date is 266,000 tons, for which a royalty of 3d. per ton is charged by the Commission.

## ECHUCA.

Although flood conditions, during the winter of 1931, were much more severe than has been the case for some years past, the levee banks in this District were once more effective in protecting the lands from flooding.

In May, 1932, the supervision of these works was transferred from the Echuca Borough Council's foreman to Messrs. Freeman Bros., Border Foundry, Echuca, acting under the direction of the Commission's District Engineer at Rochester.

## LOCH GARRY.

As there was no flood of a serious nature along the Goulburn River during the year under review, the operation of the drop bars at the Loch Garry Regulator was unnecessary.

## KANYAPELLA.

No floods of any consequence occurred during the year in this District. In order to minimize the risk of flooding from the Yambuna Creek, attention was given to the works connecting that creek and the Warrigal Creek.

## CARRUM.

During the year the internal drainage channels in this District were cleaned out and enlarged, and it is anticipated that the completion of this work will materially assist in the drainage of the low lands, portions of which are below high tide level.

## MURRAY LEVEES.

Applications received during the year for permission to carry out works to protect lands from the effect of floods in the River Murray were dealt with, after investigation, by the Interstate Committee appointed for the purpose.

### RIVER EROSION, DRAINAGE, AND GENERAL.

A number of applications was received during the year for permission to construct flood protection, drainage, and other works, and, in every case where investigation showed that the proposal was reasonable, permission under the provisions of the *Water Act* 1928 was granted for the carrying out of the work at the cost of the applicant.

During the year many applications were made for grants from the "Rivers and Streams Fund" referred to in the last Annual Report. On the recommendation of the Honorable the Commissioner of Public Works, after consultation with this Commission, a number of grants to Councils and landholders for or towards the removal of obstructions in rivers and streams and the prevention of erosion of the banks thereof was approved. The estimated cost of all works approved is £6,155, of which £3,348 is to be contributed by the Councils or landowners concerned and £2,807 is to be granted by the Government from the Fund.

### RIVER GAUGING.

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

Heavy flooding occurred in the River Murray and to a lesser extent in some of the principal tributaries during July, 1931, and valuable information regarding flood discharges in the River Murray at Euston, Mitta River at Tallangatta, and Kiewa River at Kiewa was obtained. At Euston, a discharge measurement was taken at the peak of the flood which reached a level of 34 feet 6 inches at the township gauge. Previous high flood levels at this place were 36 feet 3 inches in the year 1870 and 34 feet in 1917.

During the year the recording of gaugings of the Avoca River at Coonooer Weir, the Brodribb River at Sardine Creek, and the Lang Lang River at Heath Hill was discontinued, while the gauging of the Tambo River at Ensay South has been temporarily suspended. The number of gauging stations now in operation in the State is 63.

### DIVERSION OF WATER.

In the exercise of the right of the State to the use and flow, and to the control, of water in rivers, creeks, streams and watercourses, lakes, lagoons, swamps and marshes, supervision has been maintained over all such waters.

With the exception of the months of December, January, and February, the past season was generally unfavorable for irrigation, and, consequently, the demand for authority to divert water was generally limited, except in some districts where tobacco was extensively grown.

Authorized diversions now in force are :—

|                |    |    |                   |
|----------------|----|----|-------------------|
| Yearly permits | .. | .. | 1,836             |
| Flood permits  | .. | .. | 1                 |
| Licences       | .. | .. | 13                |
| Total          | .. | .. | <hr/> 1,850 <hr/> |

### GOULBURN HEADWORKS AND MAIN CHANNELS.

These works comprise the Goulburn Weir; the Goulburn-Waranga Channel, extending from the Weir to Waranga Reservoir, a distance of  $23\frac{1}{2}$  miles; the Waranga Reservoir; the Waranga-Rodney Channel, a distance of  $4\frac{1}{2}$  miles; the Main Channel, extending westerly from the Waranga Reservoir to the Loddon River, a distance of 98 miles; the Waranga Western Main Channel Extension, extending north-westerly from the Loddon River a distance of 36 miles (for irrigation) and a further distance of 94 miles to Kurdgweechee to supplement the supply from the headworks of the Wimmera-Mallee Gravitation System for domestic and stock purposes, making a total distance of 130 miles from the Loddon River, or 228 miles from the Waranga Reservoir; the Leaghur-Normanville Main Channel, extending from a point 36 miles on the Waranga Western Main Channel Extension northerly for a distance of 6 miles; the Tandarra-Calivil Main Channel, extending from 64 miles 69 chains on the Waranga Western Main Channel north-westerly to Tragowel Plains No. 1 Main Channel, a distance of 26 miles. On the eastern side the Main Eastern Channel now extends from the Goulburn Weir to the Katandra Area, a

distance of 53 miles. The total length of main channels is therefore 341 miles. The Irrigation Districts supplied are South Shepparton, Shepparton, North Shepparton, Katandra, Rodney, Deakin, Tongala, Stanhope, Rochester, Echuca North, Dingee, Calivil, Tragowel Plains, and Boort.

The work of constructing the No. 2 Tunnel in connexion with the proposed auxiliary channel from the Goulburn Weir to Waranga Reservoir, which was carried out with Unemployment Relief Funds, was closed down after about 20 per cent. of the total excavation of the tunnel was done on account of funds having become exhausted.

In connexion with the irrigation supply to lands in the vicinity of Dunbulbalane, piecework contracts have been let and work commenced on the construction of earthworks of the Eastern Goulburn Main Channel Extension from its present terminus for a distance of nearly 2 miles to the offtake of the Dunbulbalane Spur Channel, and for the first mile of such spur channel.

No further work was carried out on the enlargement of the Eastern Goulburn Main Channel ; the work has been completed for a total length of 26 miles, leaving  $5\frac{1}{2}$  miles to be done as opportunity and funds permit.

An erosion of part of the lining on the west bank of the river immediately downstream of the Goulburn Weir was repaired, and the adjoining protective work materially strengthened. Soundings of the bed of the downstream pool have been taken and plotted for future reference.

The four dragline excavators employed on the enlargement of the Waranga Western Main Channel were closed down, the work having been temporarily suspended. The remodelling and placing of extra beaching along this Channel were proceeded with as opportunity permitted, a flood regulator was installed at Bullock Creek to provide additional floodway, and a bank, about 3 miles long, for retaining the silt from the channel bank, has been constructed along the road adjacent to the Main Channel at Colbinabbin.

Further drainage subways and storm-water drains have been provided on the Loddon-Avoca Section of the Waranga Western Main Channel Extension.

Several breaks in the stone face pitching of the embankment at Waranga Reservoir, caused during violent storms, were filled with stone and grouted with cement concrete, and general maintenance works have been carried out at the Goulburn Weir, the Waranga Reservoir, and on the Goulburn Main Channels.

## NEW STORAGES.

### EILDON RESERVOIR.

Work on the lines recommended by the Inquiry Board, mentioned in previous Reports, was continued on a reduced scale, due to the progress previously made. Some additional rockfill was placed in the bank, enabling the dressing of slopes to be practically completed. Three concrete lined inspection shafts against the back of the corewall were completed, and, towards the eastern end of the bank, a contact drain, tapping the natural surface under the rockfill, was constructed to lead any water from the back of the corewall to a drain outside the downstream toe of the bank.

The steel pressure pipes have been delivered at the Reservoir, with the exception of the two final closing lengths, and the work of setting the pipes and control valves in position is in progress.

Continued daily observations have shown satisfactory results from the work done, and plans are now being prepared for the installation of gates in the gap cut in the spillway, so that the storage capacity may be increased from 200,000 acre feet to its original figure of 306,000 acre feet.

The work of clearing and deepening portion of the river channel immediately below the Power House of the State Electricity Commission, with a view to lowering the tail water level, was carried out at the request and at the cost of that Commission.

### EPPALOCK RESERVOIR.

It has been decided that the storage capacity of this Reservoir is to be 60,000 acre feet, with provision for increasing same to 100,000 acre feet by the installation of gates.

Work was carried on during the year with funds provided under the Unemployment Relief and Water Supply Loans Application Acts. The foundations in the bed of the river and adjoining banks were prepared and 1,579 cubic yards of concrete placed. Crushing of stone for concrete and winning of sand were also carried out.

**TOTAL STORAGES IN STATE.**

In 1902 the total capacity of storages in the State was 172,000 acre feet. The present capacity is 1,351,860 acre feet, and when the Wimmera Storages, Glenmaggie, and Eumemmerring Reservoirs are completed, the total capacity will be about 1,437,270 acre feet. The Hume Reservoir, in course of construction, will, unless otherwise decided by the Commonwealth and State Governments, 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. The following statement sets out the capacities of the various storages in the State:—

| <b>EXISTING STORAGES.</b>                                   |    |    |    |    |    |    |    | Capacities in Acre Feet. |                  |
|-------------------------------------------------------------|----|----|----|----|----|----|----|--------------------------|------------------|
| <i>Goulburn System—</i>                                     |    |    |    |    |    |    |    |                          |                  |
| Goulburn Weir                                               | .. | .. | .. | .. | .. | .. | .. | 20,700                   |                  |
| Waranga                                                     | .. | .. | .. | .. | .. | .. | .. | 333,400                  |                  |
| Eildon (200,000 acre feet capacity this year)               | .. | .. | .. | .. | .. | .. | .. | 306,000                  |                  |
| <i>Murray-Loddon System—</i>                                |    |    |    |    |    |    |    |                          | 660,100          |
| Hume Reservoir (part of 2,000,000 acre feet—half share)     | .. | .. | .. | .. | .. | .. | .. | 127,500                  |                  |
| Kow Swamp                                                   | .. | .. | .. | .. | .. | .. | .. | 40,860                   |                  |
| Laanecoorie                                                 | .. | .. | .. | .. | .. | .. | .. | 14,000                   |                  |
| Kerang North-West Lakes                                     | .. | .. | .. | .. | .. | .. | .. | 92,000                   |                  |
| Lake Boga                                                   | .. | .. | .. | .. | .. | .. | .. | 28,000                   |                  |
| Long Lake                                                   | .. | .. | .. | .. | .. | .. | .. | 3,820                    |                  |
| <i>Wimmera-Mallee System—</i>                               |    |    |    |    |    |    |    |                          | 306,180          |
| Lake Lonsdale (Enlargement to 53,290 acre feet in progress) | .. | .. | .. | .. | .. | .. | .. | 45,480                   |                  |
| Wartook                                                     | .. | .. | .. | .. | .. | .. | .. | 23,800                   |                  |
| Fyans Lake                                                  | .. | .. | .. | .. | .. | .. | .. | 17,100                   |                  |
| Taylor's Lake                                               | .. | .. | .. | .. | .. | .. | .. | 30,000                   |                  |
| Pine Lake (part of 62,000 acre feet)                        | .. | .. | .. | .. | .. | .. | .. | 52,000                   |                  |
| Lower Wimmera Weirs                                         | .. | .. | .. | .. | .. | .. | .. | 2,870                    |                  |
| Batyo Catyo (Avon Regulator)                                | .. | .. | .. | .. | .. | .. | .. | 5,000                    |                  |
| Lake Whitton                                                | .. | .. | .. | .. | .. | .. | .. | 1,300                    |                  |
| Earthen Storages, Township Reservoirs, and Mallee Tanks     | .. | .. | .. | .. | .. | .. | .. | 5,710                    |                  |
| <i>Maffra-Sale System—</i>                                  |    |    |    |    |    |    |    |                          | 183,260          |
| Glenmaggie Reservoir (part of 150,000 acre feet)            | .. | .. | .. | .. | .. | .. | .. | ..                       | 104,500          |
| <i>Coliban System—</i>                                      |    |    |    |    |    |    |    |                          |                  |
| Upper Coliban                                               | .. | .. | .. | .. | .. | .. | .. | 25,700                   |                  |
| Malmsbury                                                   | .. | .. | .. | .. | .. | .. | .. | 12,300                   |                  |
| Spring Gully                                                | .. | .. | .. | .. | .. | .. | .. | 2,000                    |                  |
| Subsidiary Reservoirs                                       | .. | .. | .. | .. | .. | .. | .. | 4,930                    |                  |
| <i>Werribee—</i>                                            |    |    |    |    |    |    |    |                          | 44,930           |
| Pykes Creek                                                 | .. | .. | .. | .. | .. | .. | .. | 21,000                   |                  |
| Melton                                                      | .. | .. | .. | .. | .. | .. | .. | 17,000                   |                  |
| <i>Bellarine Peninsula System—</i>                          |    |    |    |    |    |    |    |                          | 38,000           |
| Wurdee Boluc                                                | .. | .. | .. | .. | .. | .. | .. | 10,000                   |                  |
| Service Basins                                              | .. | .. | .. | .. | .. | .. | .. | 600                      |                  |
| <i>Mornington Peninsula System—</i>                         |    |    |    |    |    |    |    |                          | 10,600           |
| Beaconsfield, Frankston, and Mornington Reservoirs          | .. | .. | .. | .. | .. | .. | .. | 1,560                    |                  |
| Service Basins                                              | .. | .. | .. | .. | .. | .. | .. | 180                      |                  |
| Eumemmerring Reservoir (part of 3,100 acre feet)            | .. | .. | .. | .. | .. | .. | .. | 1,000                    |                  |
| <i>Miscellaneous—</i>                                       |    |    |    |    |    |    |    |                          | 2,740            |
| Wonthaggi                                                   | .. | .. | .. | .. | .. | .. | .. | ..                       | 1,550            |
| <b>Total capacity of existing Storages</b>                  |    |    |    |    |    |    |    | <b>..</b>                | <b>1,351,860</b> |

**ADDITIONAL STORAGE BEING PROVIDED BY WORKS IN COURSE OF CONSTRUCTION.**

|                                                                                            |    |    |    |    |    |    |    |           |                  |
|--------------------------------------------------------------------------------------------|----|----|----|----|----|----|----|-----------|------------------|
| <i>Wimmera-Mallee System—</i>                                                              |    |    |    |    |    |    |    |           |                  |
| Lake Lonsdale Enlargement                                                                  | .. | .. | .. | .. | .. | .. | .. | 7,810     |                  |
| Pine Lake (balance of 62,000 acre feet)                                                    | .. | .. | .. | .. | .. | .. | .. | 10,000    |                  |
| Green Lake                                                                                 | .. | .. | .. | .. | .. | .. | .. | 20,000    |                  |
| <i>Maffra-Sale System—</i>                                                                 |    |    |    |    |    |    |    |           | 37,810           |
| Glenmaggie Reservoir (balance of 150,000 acre feet)                                        | .. | .. | .. | .. | .. | .. | .. | ..        | 45,500           |
| <i>Mornington Peninsula System—</i>                                                        |    |    |    |    |    |    |    |           |                  |
| Eumemmerring Reservoir (first stage) (balance of 3,100 acre feet)                          | .. | .. | .. | .. | .. | .. | .. | ..        | 2,100            |
| <i>Murray System—</i>                                                                      |    |    |    |    |    |    |    |           |                  |
| Hume Reservoir, at junction with Mitta River, half-share of balance of 2,000,000 acre feet | .. | .. | .. | .. | .. | .. | .. | ..        | 872,500          |
| <b>Total capacity of Storages when works in hand are completed</b>                         |    |    |    |    |    |    |    | <b>..</b> | <b>2,309,770</b> |



# RIVER MURRAY WATERS AGREEMENT WORKS.

## GENERAL OUTLINE.

The scheme of works provided in the River Murray Waters Acts, passed by the Governments of the Commonwealth and of the States of New South Wales, Victoria, and South Australia, comprises storages on the Upper River Murray and at Lake Victoria, locks and weirs in the course of the River Murray from its mouth to Echuca, and also locks and weirs on the lower part of the River Murrumbidgee. The Acts also provide that, for purposes of construction, the Minister of Public Works of New South Wales shall be the Constructing Authority for that State; that for South Australia, the Commissioner of Public Works shall be the Constructing Authority; and that the State Rivers and Water Supply Commission shall be the Constructing Authority for Victoria.

The report of the River Murray Commission on the questions of the extension of the Hume Reservoir to a capacity of 2,000,000 acre feet, the protection of the lower Murray against salinity, works on the River Murrumbidgee, and responsibility for expenditure in connexion with the maintenance, operation, and control of completed works and gauging stations was, as stated in the last Annual Report, considered at a conference of Ministers representing the four Contracting Governments. It was then decided that only such works at the Hume Reservoir as were necessary for the storage of 1,250,000 acre feet of water be carried forward continuously to completion, and that the question of extension beyond the 1,250,000 acre feet storage for either irrigation or hydro-electric purposes be further considered on a date to be mutually agreed upon by a majority of the Contracting Parties.

In its report, the River Murray Commission also recommended that the Commonwealth Government be relieved of its obligation in regard to the maintenance, operation, and control of completed works and gauging stations, and that such cost be borne in equal shares by the three Contracting State Governments. This recommendation has now been agreed to by all Governments concerned.

The Constructing Authority for South Australia is carrying out works at the Lake Victoria Storage to repair the damage done by the 1931 flood to the banks on the Intake Channel. The estimate of cost of Weir-Lock No. 8 was approved by the River Murray Commission, and work was put in hand, cofferdam No. 1 being completed and additional stone protection placed along the midstream section of the dam. The flood which interfered with the progress of work at Weir-Lock No. 7 did practically no damage, and operations are being continued. This Constructing Authority has also completed Locks Nos. 1, 2, 3, 4, 5, 6, and 9.

At Weir-Lock No. 15 at Euston, which is being carried out by the New South Wales Constructing Authority, the work is still suspended owing to shortage of funds.

## HUME RESERVOIR.

During the year the New South Wales Constructing Authority has been engaged on the Hume Reservoir within its territory. The main work carried out in this portion of the dam was the raising of the concrete spillway from R.L. 558 to R.L. 566, and the concreting of the main wall, wing walls, and outlet section. The maximum amount of water stored during the year was 155,000 acre feet, and the raising of the spillway to R.L. 566 will allow of 255,000 acre feet being impounded. The deviation of the main Sydney Road between Albury and Bowra was practically completed.

In Victoria, the work of constructing the Main Embankment and Bank No. 2 was further advanced by the Water Commission. The height of the embankment extending from the Victorian bank of the river for about 3,100 feet was brought just above the level of the corewall, i.e., approximately 105 feet above the river flats. During the year 328,809 cubic yards of earthwork were placed in the embankments, 3,676 cubic yards of concrete and 100 tons of steel reinforcement in the corewall, 6,677 cubic yards of gravel beaching on the downstream face and 8,847 square yards of concrete paving on the upstream face of the Main Embankment, and 21,078 reinforced concrete drainage slabs behind the corewall.

The road deviations carried out on behalf of the Water Commission by the Victorian Country Roads Board were completed, while the railway deviations between Wodonga and Tallangatta, being carried out for this Commission by the Victorian Railways Department, were so far advanced that traffic was sent along the new line on 1st February last, and the whole work was almost completed at the end of June, 1932.

Further investigations have been made in regard to the supply of water for the irrigation of lands along the Murray Valley from the Hume Reservoir to Picola, about 120 miles westward. In connexion with the proposed diversion weir near Yarrawonga, the investigatory boring and survey works were completed during the year, and plans and estimates for the weir are being prepared by the State Rivers and Water Supply Commission acting in co-operation with the Water Conservation and Irrigation Commission and Public Works Department, New South Wales.

## WEIRS AND LOCKS, TORRUMBARRY AND MILDURA.

Both these works operated satisfactorily during the year, and again proved very beneficial in connexion with the water supply to the important Irrigation Districts along the River Murray. During July and August, 1931, the river was in a flooded condition, and some scouring was caused at each of the Locks. Repairs carried out proved satisfactory.

## WORKS CONTROLLED BY OTHER AUTHORITIES.

(Under General Supervision of the Commission.)

## SEWERAGE IN COUNTRY DISTRICTS.

The Bendigo Sewerage Authority has completed the sewerage reticulation of the White Hills area. Approximately 5,500 tenements are now connected to the sewers.

The Ballarat Sewerage Authority is making good progress with the reticulation of the suburban areas and 6,700 tenements have been connected to the Authority's sewers. The works are being extended as rapidly as possible.

The Mildura Sewerage Authority completed its works and connexions have been made to practically the whole of the 1,200 tenements in the district. The works for the treatment of the sewage are operating satisfactorily.

The Echuca Sewerage Authority constructed sludge drying beds, and the whole works have acted successfully throughout the year.

The Horsham and Swan Hill Sewerage Authorities have now prepared final plans and specifications and it is anticipated that construction of works will be commenced within a few months.

The Colac Sewerage Authority carried out minor extensions to the reticulation works, and the scheme is operating efficiently.

The Warrnambool Sewerage Authority, having completed designs and specifications, is endeavouring to make the necessary financial arrangements for the early commencement of the works.

Applications for the constitution of Sewerage Authorities at Ararat, Bairnsdale, Dandenong, Kerang, Kyneton, Lorne, Mornington, Shepparton, and Wangaratta were examined and schemes generally approved.

## COUNTRY WATER SUPPLIES.

Many important works were carried out by Waterworks Trusts and Local Governing Bodies, of which there are now 112 and 17 respectively.

The Ararat Borough Council completed the enlargement of its main feeder pipe line from the Oliver's Gully reservoir.

The Bet Bet Shire Council, Local Governing Body for Dunolly and Tarnagulla, carried out extensions to its works to improve the supply to the Dunolly Reservoir; while the Bet Bet Waterworks Trust prepared plans for increasing the capacity of the Bealiba Reservoir following on the proclamation of the township of Bealiba as an Urban District.

The Euroa Waterworks Trust enlarged portion of its main pipe line from Seven Creeks to Mountain Hut Reservoir, and at Hamilton, the Waterworks Trust has arranged for the enlargement of a further section of the main pipe to meet the increasing demands of the town.

The Kyabram Waterworks Trust having installed a chemical dry feeder is obtaining a satisfactory degree of water clarification.

The Kyneton Waterworks Trust has made preparations for laying a larger main from the service basin to the town to cope with growing requirements.

A new pumping plant was erected at Mooroopna to provide for the increasing demands of the township and the cannery, and the Portland Waterworks Trust completed the installation of works of water supply to the major portion of the town and has in mind the extension of the service to South Portland.

In view of the early commencement of sewerage works, the Swan Hill Waterworks Trust is constructing a new pumping station to safeguard the town water supply.

The Seymour Waterworks Trust improved the supply to the high levels of the town by laying an additional main to serve this area, and the Wangaratta Waterworks Trust carried out important improvements to the reticulation system.

Pipe extensions and minor works were carried out at Alexandra, Avenel, Echuca, Elmore, Leongatha, Macedon, Shepparton, Sunbury, Stawell, Trafalgar, and Woodend.

Investigations were made in connexion with proposed water supply schemes for Cowes, Moe, Myrtleford, Tallarook, and Tallygaroopna, while suggested improvements to the existing schemes at Broadford, Kilmore, Traralgon, Toora, Ararat, and Beaufort, were also examined.



## CLOSER SETTLEMENT.

### LANDS UNDER CLOSER SETTLEMENT IN IRRIGATION DISTRICTS.

With the exception of two farm allotments, which formed part of the Pompapiel Forest Reserve in the Calivil District, no new irrigable Closer Settlement lands were made available by the Commission during the year. This Reserve, which adjoins the Commission's Calivil Estate, was taken over from the Forests Commission under an arrangement for the exchange of land more suitable for forestry purposes. The number of suitable applicants for these allotments and for forty-three other irrigable blocks which became available, showed that there is a good demand for irrigation blocks. The majority of the successful applicants possessed sufficient capital to enable them to develop their holdings without financial aid from the State.

The Commission has continued to allocate additional land, from vacant blocks, to settlers who had developed their original areas to full capacity and felt the need for larger areas. Nineteen settlers, chiefly discharged soldiers, were thus enabled to enlarge their farms, making a total of 297 since the Special District Inquiry Board made its recommendations in 1927. In a number of cases, allotments which it was thought expedient not to allot on purchase leases were leased temporarily for periods up to 5 years.

Applications to transfer approved during the year numbered 132, being nearly double the number so dealt with during the preceding year, and from a financial viewpoint the transferors were able to benefit considerably from their equity in their improved farms, after paying all indebtedness to the State.

Fifty-two applications by lessees for the registration of mortgages on their allotments were consented to by the Commission. These applications serve to illustrate that financial assistance is readily available from private sources in respect of Closer Settlement areas in Irrigation Districts. In addition some thirty settlers, mainly on account of failing health, applied to be permitted to sublet their farms, and it was found that no difficulty was experienced by these settlers in obtaining sub-tenants fully qualified to properly work their farms.

The total area of irrigable lands purchased and sub-divided by the State, and the extent of settlement in each District, is shown in the statement hereunder. The subdivided portions of the Estates are supporting nearly seventeen times as many families as resided thereon prior to their sub-division for Closer Settlement.

| Closer Settlement Estates.                                                                                 | Area of<br>Lands<br>purchased<br>by the<br>State in<br>Acres. | Properties Subdivided. |         |                                                        |                                              |                              |       | Number of<br>Closer<br>Settlement<br>Blocks<br>now<br>occupied. | Present<br>Increase in<br>Number of<br>Families. |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------|---------|--------------------------------------------------------|----------------------------------------------|------------------------------|-------|-----------------------------------------------------------------|--------------------------------------------------|
|                                                                                                            |                                                               | Area in<br>Acres.      | Number. | Number of<br>Families<br>thereon<br>when<br>Purchased. | Subdivided into—                             |                              |       |                                                                 |                                                  |
|                                                                                                            |                                                               |                        |         |                                                        | Number of<br>Closer<br>Settlement<br>Blocks. | Average<br>Area in<br>Acres. |       |                                                                 |                                                  |
| Shepparton .. .. .                                                                                         | 14,170                                                        | 14,170                 | 33      | 29                                                     | 371                                          | 35                           | 345   | 316                                                             |                                                  |
| East Goulburn .. .. .                                                                                      | 13,400                                                        | 13,400                 | 21      | 20                                                     | 162                                          | 74                           | 155   | 135                                                             |                                                  |
| Rodney .. .. .                                                                                             | 3,230                                                         | 3,230                  | 8       | 5                                                      | 54                                           | 58                           | 42    | 37                                                              |                                                  |
| Stanhope .. .. .                                                                                           | 21,500                                                        | 21,500                 | 7       | 13                                                     | 272                                          | 68                           | 244   | 231                                                             |                                                  |
| Kyabram .. .. .                                                                                            | 4,600                                                         | 4,600                  | 10      | 12                                                     | 68                                           | 63                           | 68    | 56                                                              |                                                  |
| Tongala .. .. .                                                                                            | 19,090                                                        | 19,090                 | 41      | 36                                                     | 305                                          | 61                           | 283   | 247                                                             |                                                  |
| Koyuga .. .. .                                                                                             | 4,200                                                         | 4,200                  | Pt. 1   | {                                                      | 54                                           | 73                           | 52    | 52                                                              |                                                  |
| Cornelia Creek .. .. .                                                                                     | 2,500                                                         | 2,500                  |         |                                                        | 19                                           | 161                          | 18    | 18                                                              |                                                  |
| Nanneella .. .. .                                                                                          | 9,040                                                         | 9,040                  | 18      | 8                                                      | 124                                          | 70                           | 118   | 110                                                             |                                                  |
| Echuca .. .. .                                                                                             | 3,600                                                         | 3,600                  | 8       | 4                                                      | 30                                           | 105                          | 30    | 26                                                              |                                                  |
| Bamawm .. .. .                                                                                             | 13,400                                                        | 13,400                 | 28      | 21                                                     | 191                                          | 65                           | 187   | 166                                                             |                                                  |
| Dingee .. .. .                                                                                             | 500                                                           | 500                    | 3       | 1                                                      | 20                                           | 23                           | 14    | 13                                                              |                                                  |
| Calivil .. .. .                                                                                            | 4,800                                                         | 3,860                  | 8       | 6                                                      | 28                                           | 149                          | 27    | 21                                                              |                                                  |
| Cohuna .. .. .                                                                                             | 12,000                                                        | 12,000                 | 29      | 10                                                     | 142                                          | 80                           | 116   | 106                                                             |                                                  |
| Koondrook .. .. .                                                                                          | 9,060                                                         | 9,060                  | 14      | 10                                                     | 124                                          | 67                           | 100   | 90                                                              |                                                  |
| Swan Hill .. .. .                                                                                          | 12,500                                                        | 12,500                 | 34      | 16                                                     | 323                                          | 36                           | 320   | 304                                                             |                                                  |
| Nyah .. .. .                                                                                               | 3,800                                                         | 3,800                  | 8       | 1                                                      | 234                                          | 15                           | 231   | 230                                                             |                                                  |
| Merbein (Crown) .. .. .                                                                                    | 8,300                                                         | 8,300                  | ..      | ..                                                     | 415                                          | 20                           | 413   | 413                                                             |                                                  |
| Red Cliffs .. .. .                                                                                         | 33,000                                                        | 18,000                 | 1       | 3                                                      | 678                                          | 17                           | 668   | 665                                                             |                                                  |
| Bacchus Marsh .. .. .                                                                                      | 70                                                            | 70                     | 1       | ..                                                     | 2                                            | 36                           | 2     | 2                                                               |                                                  |
| Werribee .. .. .                                                                                           | 10,000                                                        | 10,000                 | 1       | 11                                                     | 226                                          | 36                           | 220   | 209                                                             |                                                  |
| Hallam .. .. .                                                                                             | 3,300                                                         | 1,860                  | 7       | 4                                                      | 87                                           | 20                           | 67    | 63                                                              |                                                  |
| Maffra-Sale .. .. .                                                                                        | 10,570                                                        | 8,970                  | 23      | 22                                                     | 175                                          | 48                           | 172   | 150                                                             |                                                  |
| Properties acquired under Sec. 20, <i>Closer<br/>Settlement Act</i> 1928, outside above<br>Estates .. .. . | 216,630                                                       | 197,650                | 304     | 232                                                    | 4,104                                        | 44                           | 3,892 | 3,660                                                           |                                                  |
|                                                                                                            | 19,540                                                        | ..                     | ..      | ..                                                     | ..                                           | ..                           | 193   | ..                                                              |                                                  |
|                                                                                                            | 236,170                                                       |                        |         |                                                        |                                              |                              |       |                                                                 |                                                  |

### PROGRESS OF IRRIGATED CLOSER SETTLED DISTRICTS.

Steady progress continues to be maintained in the Irrigated Closer Settlement Areas administered by the Commission, despite the fact that prices generally obtaining for rural produce are still at a comparatively low level. This fall in the price level of rural produce, however, has

had the effect of compelling increased production per acre with minimum additional cost, and Irrigated Areas show how much in this direction can be accomplished by the judicious use of water and manure. In the dairying districts it is found that the sizes of dairy herds have increased on the same areas and the average production per cow has also been increased. In this regard the careful selection of pure bred bulls of proved butter-fat producing strain, and the rearing of their progeny, has also materially assisted. The District Herd Test figures strikingly illustrate this increased production as in 1929-30, in the North Murchison Unit, the average production for the period of test (273 days) was 235 lb. of butter-fat per cow, whereas for the year just ended (1931-32) the average for the same period was as high as 296 lb. During the same time the average for cows in the Kerang Unit increased from 208 lb. to 275 lb. of butter-fat. These increases are typical of what is taking place throughout all the Irrigated Dairying Districts, and the Commission's policy of encouraging the regular top-dressing of pastures and lucerne is being more than justified by the results achieved.

In the Standard Herd Test conducted by the Department of Agriculture for pure bred herds, the superiority of the Irrigation Districts for dairying was again demonstrated, the highest average production per cow being obtained by a herd from an Irrigation District, and of the twenty-three herds that exceeded an average of 450 lb. of butter-fat per cow, no less than eight were from Irrigation Areas, although these areas contain less than 10 per cent. of the cows in the State. The top place in the individual cow test was again filled by a cow from an Irrigation District with a yield of 745.45 lb. of butter-fat for the period of test, this being an improvement on last year, when the record was 729.37 lb., also established by a cow from the same herd.

As a result of the extremely unfavorable weather prior to harvesting, yields of Dried Grape Fruits were much lighter than anticipated, but the total pack, 36,500 tons, exceeded that of last year by over 5,000 tons. It was, however, substantially lower than 1929 and 1930, when the yields were 48,000 and 47,500 tons respectively, but the improved prices which were first manifested late in 1930 have more than been maintained, and this factor, together with the "exchange" benefit, has ensured to the grower a monetary return which is more than equal to that obtained in 1929 and 1930. Of the 36,500 tons of dried grape fruits produced this year in Victoria, the Red Cliffs District again headed the list with a total production of over 12,000 tons, while Merbein produced 9,700 tons and Nyah and Woorinen combined 4,800 tons.

Still further expansion in the marketing of this product has followed the Trade Treaty so long advocated by the late Chairman of the Commission, and eventually made with Canada, as the total exports to that country for this year appear certain to exceed 15,000 tons as against 10,000 tons last year, and 776 tons six years ago.

Although the production of canned fruits was greatly affected by the adverse weather conditions in the winter of 1931, and by the damage done by thrips in the early part of the season, the total production for Australia, 28,000,000 cans of apricots, peaches, and pears, showed an increase of 7,000,000 cans over the preceding season. Practically the whole of this increase was provided by Victoria, in which 20,500,000 cans were produced as against 14,000,000 cans in 1931. Of the Victorian pack, the three Co-operative Canneries in the Irrigation Districts again processed no less than 75 per cent. This huge quantity does not, however, nearly represent the full production of the Irrigation Areas, as substantial quantities of fruit are also forwarded to the fresh fruit markets of Melbourne and Sydney, and, in the case of pears, for export to Great Britain. The export of Canned Fruits to Java and the East has progressed satisfactorily, a total number of 556,000 cans being forwarded during the year ended 30th June, 1932, as against 192,500 for the preceding season, and a regular outlet in this direction seems assured.

In the production of citrus, the crops this year are lighter on account of the large yields obtained during the two preceding seasons, and it is expected that no difficulty will be experienced in the disposal of the crop. The frosts experienced during the latter part of the winter did considerable damage to mandarins and lemons in the Murrabit and Rochester Areas, but, fortunately, oranges were not greatly affected. In the Murrabit District areas most susceptible to frosts, settlers are top-working their lemons and mandarins to grape fruit and oranges respectively, and one settler has a good crop of grape fruit on trees so worked four years ago. With the extension of this practice, it is expected that a number of settlers will obtain more remunerative returns from their groves.

The expansion of the tobacco-growing industry in the Irrigation Areas was, as anticipated in the last Report, most marked. In the Goulburn Valley Irrigation Areas a number of settlers had from 5 to 50 acres under this crop, and the results achieved were more than satisfactory. The top price at the sales to date was obtained by a grower in the Shepparton District, the return being 4s. 9d. per lb. A still larger number of growers is expected next season, and, in the Shepparton Area especially, this crop seems likely to become very profitable.

The production at Maffra of sugar beet under irrigation this year showed a very marked increase in yield over that produced under dry farming conditions, the average yields per acre being 15.6 tons under irrigation as against 12.8 tons on the dry areas, the highest yields being 19.6 tons and 16.9 tons per acre respectively. It is interesting to note that coincident with the expansion of Irrigation in this District, the profits of the Maffra Beet Sugar Factory have increased yearly until this year the total reached £148,298.

Steady progress continues to be maintained by the Katandra Irrigation Closer Settlement District, the area under lucerne and permanent pastures being increased by nearly 400 acres during the year. The total area of these fodder crops is now 5,680 acres, being approximately 4,500 acres of lucerne and 1,180 acres of permanent pasture. The number of dairy stock has increased by 300, and, as a large proportion of this increase has been provided by the rearing of young stock sired by pure bred bulls of proved butter-fat producing strains, the average quality of the stock has been materially improved.

With the large increase in the export trade of eggs, the suitability and popularity of the Irrigation Districts for poultry farming is exemplified. In the Werribee District there is the largest poultry farm in the Southern Hemisphere, running over 70,000 birds, and also several other farms carrying large numbers of birds. In the Northern Irrigation Districts especially, many settlers carry numbers of birds as a side line, and several devote practically the whole of their energies to the poultry industry. Last year no less than 35,153 cases of eggs were forwarded from one Irrigation Area in the North for either export or home consumption. With the ruling high prices for export eggs, poultry farming on the Irrigation Areas is very profitable, and it is expected that, during the present year, production will still further increase, and that the record export of 120,000,000 eggs to Great Britain last season will be exceeded. Already arrangements have been made for the supplying of 40,000 cases from an Irrigation Area to one firm alone.

Following its practice of the last few years, the Bendigo Agricultural Society made a tour of inspection of one of the Irrigation Districts, Maffra and Sale being visited this year. Two days were spent in the District, and the party was much impressed with the quality of the dairy herds and the luxuriant growth of lucerne and permanent pastures on the various holdings, and also with the production of sugar beet under Irrigation, as this crop is not grown in the Northern Areas.

The Stanhope Closer Settlement District, which was first established in 1918, has made further remarkable progress during the last few years. The total population of the Settlement, which comprised only thirteen families before it was purchased for Closer Settlement purposes, is now over 1,050, and the area under cultivation has increased from 2,000 acres in 1918 to over 14,000 acres in 1931. Dairying and its allied industries being the main lines of production, the area under lucerne (7,850 acres) and permanent pasture (2,200 acres) account for the greater proportion of the total area under cultivation. The increase in the area under permanent pasture in recent years is really remarkable, as three years ago only 200 acres were devoted to this permanent fodder crop. Other areas under cultivation comprise 300 acres of deciduous and citrus orchards and 1,700 acres of annual fodder crops, the balance being cereals. The dairy stock on the settlement has reached a total of over 5,000 head, while there are no fewer than 2,000 pigs, 7,500 head of sheep, 550 horses, and 12,300 head of poultry.

In the Royal Agricultural Show this year, exhibits from the Irrigation Districts were again prominent in the prize lists. In the Dairy Cattle sections, no less than 2 championships, 4 reserve championships, 15 firsts, 15 seconds, and 9 thirds were obtained by settlers from the Irrigation Areas; while in the swine sections, 1 championship, 3 reserve championships, 15 firsts, 12 seconds, and 7 thirds were also obtained. In the butter section, the Shepparton Factory once more obtained first place and championship for the best box of export butter, and also the first prize in the Orient export class. The first prize for the best box of bulk butter was, in addition, obtained by this factory. The championship for fresh butter for local consumption, as well as first place for the best box of print butter, was also won by a factory from an Irrigation Area.

During the year the results of the experiments carried out by the Department of Agriculture at the Research Farm, Werribee, on the rate and frequency of watering of Irrigated pastures, were published in the *Journal of Agriculture*. The tests made proved conclusively that the management of the settler in respect to the rate and frequency of watering has a marked effect on the quantity and quality of the fodder produced.

Field days were conducted on outstanding farms in various irrigated Closer Settlement Estates by officers of the Department of Agriculture, assisted by the Commission's local Closer Settlement Supervisors. Lectures were given by the officials of the Department, and were generally of great educational value to the settlers present.

The Royal Commission appointed to inquire into the positions of the Overseas Settlers continued its investigations during the year. The inspections of the various estates and the taking of complainants' evidence have been completed, and a commencement was made with the taking of the evidence of the Government witnesses.

During the year a suggestion has been made that the administration of Closer Settlement in Irrigation Areas should be transferred from the control of the Water Commission. The Commission considers that any action in this direction would be detrimental to both the settler and the State, and would have no compensating advantages of any kind. This opinion is confirmed by the following quotation from one of the leading authorities on Irrigation Administration:—

“No adequate system of Irrigation laws, or any enduring prosperity for the people who till the soil, can be built on separate ownership and divided control of land and water.”

## ADMINISTRATION.

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### EXTENSIONS AND EXCISIONS.

The effect of the Commission's operations during the past year involved many necessary alterations to the boundaries of constituted Districts.

The Kerang North-West Lakes Waterworks District was extended by the addition of 640 acres formerly within the Third Lake Irrigation District, and a corresponding excision has been made from that District.

In response to urgent requests by landowners, the Narioka Main Channel, in the East Goulburn area, has been extended for a distance of 6 miles beyond the present boundary of the North Shepparton Irrigation District. This District will therefore be extended to include the additional lands now commandable from that channel.

As the area of the Metropolis as defined by the *Melbourne and Metropolitan Board of Works Act 1929* overlapped an unrated portion of the Mornington Peninsula Waterworks District, at Springvale, the area in question, 4,050 acres, has been excised from that District.

The boundaries of the Springvale Urban District, within the Mornington Peninsula Waterworks District, have been amended so as to include an additional area of 3,100 acres.

### NEW AND PROPOSED DISTRICTS.

The construction of the works of the Bellarine Peninsula Water Supply Scheme has been advanced to such a stage that steps are being taken for the constitution of the Bellarine Peninsula Waterworks District, embracing the whole of the works and the various towns which will receive supplies therefrom. Urban districts will be proclaimed in respect of Queenscliff and Point Lonsdale, and other towns, following the completion of the reticulation works in each case.

The works to provide a Domestic and Stock Supply to the town of Newstead and lands in the vicinity are in progress, and a Waterworks District embracing the lands in question, will be constituted in due course, and an Urban District proclaimed in respect of the town.

### STAFF.

The Commission, in continuance of the policy of observing the utmost economy, has further revised its services wherever practicable throughout the whole of its Districts, and the economies thus effected have led to a reduction in the annual Vote charges from £262,664 in 1929-30 to £200,000 in the financial year 1932-33. When it is recognized the great difficulty that arises in reducing or in any way curtailing the water supply services to the numerous Irrigation and Waterworks Districts, the value of this achievement will be realized. The number of employees on the Staff has been reduced to 408 as against 500 on 1st January, 1929.

Mr. A. S. Kenyon, the Commission's Senior Engineer, acted as a Commissioner for a period of six weeks during the absence of Mr. Commissioner Shaw.

The Commission records with deep regret the deaths of three of its valued and respected officers in Messrs. E. Ryan, G. F. Miller, and F. V. Symes.

Mr. J. D. Wallis, the Commission's District Officer at Tresco, was appointed District Secretary and Collector for the Fish Point and Tresco Districts.

Mr. J. A. P. Ham, District Secretary and Collector for Frankston and a number of other Urban Districts in the Mornington Peninsula, has also been appointed to a similar position in respect of the newly proclaimed Crib Point Urban District.

The following Officers retired during the year:—W. Stevenson, A. M. Abrahamsen, A. Heritage, W. H. Matthews, and D. Gillespie.

### FIRE INSURANCE.

The Commission has continued its policy of carrying the fire risk on its own buildings. The premiums thus saved now amount to £10,111.



## RECEIPTS, DISBURSEMENTS, AND ESTIMATES.

The total collections amounted to £535,072, which is an improvement of no less than £93,542 over the receipts for the previous year. In addition the amount paid in interest, by Waterworks Trusts and Local Bodies, amounted to £88,618. The Commission has to again point out that the low prices still ruling for practically all primary produce seriously affects the revenue. Another factor operating to the detriment of the Commission's revenue arises in connexion with the allocation of the harvest returns of the Crown lessees under lien in the Mallee. These holdings cover several thousand square miles and are supplied with domestic and stock water conveyed by channel to practically every block. During the recent years of drought, the cost of clearing sand drift from thousands of miles of channels was exceedingly heavy, and as there were few crops, very little rates could be collected to offset the expenditure. Had the water supply not been maintained, very large tracts of this country would have been deserted with great losses to both the Government and outside creditors.

It was expected that the return of good seasons in these districts would result in payment of the current rates and some proportion of the arrears, but owing to the low price of wheat, and the precedence given by the Legislature to other creditors of these lessees under lien, the Commission's revenue suffered to an amount which may be estimated at not less than £100,000. It is in these areas that the rate indebtedness shows the greatest increase, and in the foregoing circumstances the difficulty in reducing the arrears will be understood.

The expenditure from the Annual Votes amounted to £220,090, as against £248,538 in 1930-31 and £265,977 in 1929-30. These reductions are considerable when it is recognized that a water supply service must be maintained with equal efficiency to all ratepayers both in prosperous and lean years. The loan expenditure, as detailed elsewhere in this Report, amounted to £325,212 as against £649,705 for last year.

The receipts from the Irrigation Districts amounted to £268,818, an increase of £33,757 over the collections made in 1930-31. In the districts engaged in the dried fruits industry the returns were very satisfactory, and, owing to the payment of charges outstanding from previous years, the collections very substantially exceeded the year's charges. In other irrigation districts, especially those devoted to cereals and sheep raising, many farmers found difficulty in fully liquidating their indebtedness. After debiting the districts with working expenses and interest chargeable, the deficit for the year was £30,593, as against £72,504 the previous year. The financial position of each district is set out in detail in another portion of this Report.

In the Coliban District, the collections were £44,548, an increase as against 1930-31 of some £2,025. The loss for the past year was £32,995, but much of this represents interest on capital expended between 50 and 60 years ago for which there are no assets. The rating in these districts is specially limited by the Water Act, and any substantial improvement in the revenue can only be achieved by a general development through the whole district.

The revenue returns from the Waterworks Districts other than Coliban showed a considerable improvement and amounted to £190,830 as against £133,154 received in 1930-31. As explained above, apart from the low price of wheat, the payments to the Commission are controlled in many of these Districts by the order of preference laid down by the Legislature in regard to Crown lessees under lien, and as many other creditors take priority of the Commission in the division of the harvest returns, the revenue, although substantially increased for 1931-32, falls short of the year's expenditure in interest and other annual charges by £48,482.

There are 109 Waterworks Districts inclusive of town supplies and the financial position of each District is set out in detail in another portion of this Report.

In the five Flood Protection Districts controlled by the Commission under the provisions of the Water Act, the receipts were £6,706 as against £4,568 in the previous year. After providing for Interest, Maintenance, and Management, the loss for the year amounted to £1,228, as against a loss of £2,703 for 1930-31.

The disbursements for the next financial year are estimated at £202,000 as against an estimate of £210,470 for 1931-32. On the other hand the receipts are estimated at £543,500, which is £8,428 in advance of the cash received in 1931-32.

The Loan Liability of the State for Works for Water Supply at the close of the year was £24,439,599. Of this total £1,260,911 is for Free Headworks declared free by Parliament some 27 years ago; £1,263,228 was Written off by Parliament some 33 years ago; £147,046 was advanced to some early-formed Local Authorities and also Written off by Parliament; £2,313,528 is represented by River Murray Works; and £6,248,961 by Uncompleted or Unallotted Works which are not revenue producing, details of which are set out separately in the Statement of Loan Liability in this Report. The balance of £13,205,925 is the sum in respect of which those benefited by the various works are this year liable for payment of interest.

The present interest charges on Loans amount to £1,220,869. Of this amount £133,437 is not chargeable to any District, being debitable against Free Headworks, and Amounts Written off, and £115,571 is debitable against River Murray Works, while £312,165 is not at present debitable, being interest on cost of Uncompleted or Unallotted Works which are not yet revenue producing, leaving £659,696 as chargeable against the Commission and other Authorities. The amount available last year from the revenue of the Commission and other Authorities to meet such interest (after providing a sum of £20,289 for non-revenue producing works and services not chargeable to any districts) was £403,100 as set out in the statement on page 38.

## FINANCIAL POSITION.

The Statement of Loan Liability on page 38 of this Report sets out the present aggregate financial position in connexion with Works both for Irrigation and Domestic and Stock Supply as well as for Flood Protection and Drainage Services.

That Statement shows in detail the extent of the State's liability, although a large portion represents Amounts Written Off and other Amounts which cannot be charged to water users, such as Free Headworks.

Taking the figures in the Report, the position in regard to Non-Revenue and Revenue producing works is :—

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | £       | £              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------|
| Gross deficit including all Written Off and Irrecoverable Amounts .. .. .                                                                                                                                                                                                                                                                                                                                                                                                                                           | 817,769 |                |
| To which certain Amounts are debited for Pensions by Treasury .. .. .                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8,610   |                |
| Exchange debited by Treasury on Interest commitments in London .. .. .                                                                                                                                                                                                                                                                                                                                                                                                                                              | 141,269 |                |
| <b>Making a total of .. .. .</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         | <b>967,648</b> |
| Included in this is Interest on—                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |                |
| CAPITAL WRITTEN OFF 33 years ago (£1,263,228)                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |                |
| FREE HEADWORKS declared 27 years ago (£1,407,957)                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |                |
| RIVER MURRAY AGREEMENT WORKS (£2,313,528)                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                |
| Totalling .. .. .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 249,008 |                |
| LOSS ON COLBAN District where Rate is limited by Water Act in lieu of general Writing Off .. .. .                                                                                                                                                                                                                                                                                                                                                                                                                   | 32,995  |                |
| GENERAL SERVICES rendered by Water Commission chargeable to whole State (see page 31 of Report) .. .. .                                                                                                                                                                                                                                                                                                                                                                                                             | 20,289  |                |
| EXCHANGE debited by Treasury as above .. .. .                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 141,269 |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         | <b>443,561</b> |
| Deducting the above there remains to be accounted for a further sum of .. .. .                                                                                                                                                                                                                                                                                                                                                                                                                                      |         | 524,087        |
| At present there are Works under construction from which it is impracticable to obtain a full Revenue Return until completed or until districts connected with them have been settled so that Revenue could be collected. These comprise amongst others—Eildon and Waranga Reservoirs; Maffra and Sale Irrigation Districts; new Goulburn Districts; Kooweerup and Cardinia Flood Protection Districts; and Bellarine, Millewa, and other Domestic and Stock Schemes. The Interest on these would amount to .. .. . |         | 312,165        |
| Leaving still to be accounted for a sum of .. .. .                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         | 211,922        |
| The Interest chargeable to Districts controlled by the Commission is fixed by the Water Act at 4 per cent. on nearly all capital, which until recently was sufficient. The percentage now charged the Commission by the Treasury exclusive of exchange is £5, and this represents approximately a sum of .. .. .                                                                                                                                                                                                    |         | 128,588        |
| Leaving after excluding Interest on Free Headworks, Amounts Written Off, River Murray Works, and other Items mentioned .. .. .                                                                                                                                                                                                                                                                                                                                                                                      |         | <b>83,334</b>  |

The above statement has been prepared in order to indicate how the deficit in regard to Interest has been incurred. From an analysis of the statement it is evident that considerable portions of the Interest charges are not in any way debitable to the Commission. This applies specifically to the Capital of £1,263,228 written off by Parliament some 33 years ago and to Free Headworks costing £1,407,957 which were declared to be free some 27 years ago.

In the case of the River Murray Agreement Works the cost is being borne equally by the Commonwealth and the States of New South Wales, Victoria and South Australia. The works are being constructed in pursuance of the Agreement under the River Murray Waters Acts which was accepted by the four Governments in order to settle the riparian rights and claims of each of the three States, especially those of South Australia. Prior to the ratification of the Agreement there had been serious differences of opinion as to the right and use of the water of the Murray and its tributaries and these conflicting claims were leading to grave consequences. The River Murray Works were, therefore, primarily designed to give effect to the Agreement as to the riparian rights question, and the works were planned to ensure the Agreement being carried out in this regard, also to provide water for navigation, irrigation and the generation of power such as electricity. It was owing to the national importance of these matters that the Commonwealth Government became a party to the Agreement. So far as the Water Commission is concerned it is acting as the "Constructing Authority" for the State of Victoria, a responsibility which might have been entrusted to some other Government body. In view of this it can scarcely be claimed that the interest charged on moneys expended by the State of Victoria in carrying out its portion of these works is debitable to the Water Commission. Amongst the other large works appearing in the Capital Account attention is directed to the headworks constructed by the Commission many of which have been built on a scale to provide for future development. These include very large storages in all parts of the State and as the *Water Act* 1905 provided that all the then existing Headworks were to be "Free Headworks" it would seem that a continuance of the same principle might justly be considered in regard to later Headworks.

The Commission wishes to draw attention to the serious effect on its finances of the high rate of exchange operating in regard to interest remitted to London. The amount debited for the year was, as shown above, no less than £141,269, as against £57,100 charged in 1930-31. A substantial portion of this amount, of course, relates to interest payable on Capital Written Off, Free Headworks, River Murray, and other works which is not fairly debitable to water users.

The receipts from the Commission's districts for last year were £535,072, as against £441,530 received in 1930-31. To the former amount may be added payments of interest by Waterworks Trusts and Local Bodies amounting to £88,618.

For the incoming year the estimated collections of the Commission are £543,500, while the payments of interest by Waterworks Trusts and Local Bodies are estimated at £85,000. The Commission's Vote expenditure has been as follows—1929-30, £265,977—1930-31, £248,538—1931-32, £220,090, and the estimate for this year is £202,000. These figures illustrate the substantial economies effected by the Commission over the last few years.

# RECEIPTS AND DISBURSEMENTS.

STATEMENT of Moneys received and disbursed during the year ended 30th June, 1932.

| Works.                                                                                                  | Receipts. | DISBURSEMENTS,<br>exclusive of Interest, Redemption, and<br>Depreciation Charges. |                                                                                    |                                                              | Excess.                                |                                    |
|---------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------|------------------------------------|
|                                                                                                         |           | From<br>Annual Votes<br>and Special<br>Appropriation                              | Deduct Capital<br>and Other<br>Disbursements<br>not<br>Chargeable to<br>Districts. | Net<br>Disbursements<br>on Maintenance<br>and<br>Management. | Receipts over<br>Net<br>Disbursements. | Disbursements<br>over<br>Receipts. |
|                                                                                                         | £         | £                                                                                 | £                                                                                  | £                                                            | £                                      | £                                  |
| Coliban ... ..                                                                                          | 44,548    | 12,361                                                                            | ...                                                                                | 12,361                                                       | 32,187                                 | ...                                |
| Other State Works—                                                                                      |           |                                                                                   |                                                                                    |                                                              |                                        |                                    |
| Broken River ... ..                                                                                     | ...       | 91                                                                                | ...                                                                                | 91                                                           | ...                                    | 91                                 |
| Goulburn ... ..                                                                                         | 194       | 3,352                                                                             | ...                                                                                | 3,352                                                        | ...                                    | 3,158                              |
| Kow Swamp ... ..                                                                                        | 319       | 560                                                                               | ...                                                                                | 560                                                          | ...                                    | 241                                |
| Lake Lonsdale ... ..                                                                                    | 862       | 691                                                                               | ...                                                                                | 691                                                          | 171                                    | ...                                |
| Loddon River ... ..                                                                                     | ...       | 81                                                                                | ...                                                                                | 81                                                           | ...                                    | 81                                 |
| North-West Lakes ... ..                                                                                 | 213       | 494                                                                               | ...                                                                                | 494                                                          | ...                                    | 281                                |
| Irrigation Districts ... ..                                                                             | 268,818   | 96,953                                                                            | ...                                                                                | 96,983                                                       | 171,835                                | ...                                |
| Waterworks Districts ... ..                                                                             | 126,095   | 68,435                                                                            | ...                                                                                | 68,435                                                       | 57,660                                 | ...                                |
| Urban Districts and Divisions ... ..                                                                    | 64,735    | 13,542                                                                            | ...                                                                                | 13,542                                                       | 51,193                                 | ...                                |
| Flood Protection Districts ... ..                                                                       | 6,706     | 1,246                                                                             | ...                                                                                | 1,246                                                        | 5,460                                  | ...                                |
| Other Districts not yet classified ... ..                                                               | 22,582    | 5,817                                                                             | ...                                                                                | 5,817                                                        | 16,765                                 | ...                                |
| Licences, Diversions, Miscellaneous ... ..                                                              | ...       | ...                                                                               | ...                                                                                | ...                                                          | ...                                    | ...                                |
| Totals ... ..                                                                                           | 535,072   | 203,653                                                                           | ...                                                                                | 203,653                                                      | 335,271                                | 3,852                              |
| Not Revenue Producing—                                                                                  |           |                                                                                   |                                                                                    |                                                              |                                        |                                    |
| River Gauging, Surveys and Re-<br>ports, New Projects ... ..                                            | ...       | 2,588                                                                             | ...                                                                                | 2,588                                                        | ...                                    | 2,588                              |
| Waterworks Trusts ... ..                                                                                | ...       | 1,565                                                                             | ...                                                                                | 1,565                                                        | ...                                    | 1,565                              |
| Boring for Water, Road } Cost of<br>Clearing, Mallee and } Admin-<br>Land Settlement ... .. } istration | ...       | 6,069                                                                             | ...                                                                                | 6,069                                                        | ...                                    | 6,069                              |
| Loan Works ... ..                                                                                       | ...       | 6,215                                                                             | ...                                                                                | 6,215                                                        | ...                                    | 6,215                              |
| Totals ... ..                                                                                           | 535,072   | 220,090                                                                           | ...                                                                                | 220,090                                                      | 335,271                                | 20,289                             |
| Amount available to meet Depreciation ... ..                                                            |           |                                                                                   |                                                                                    |                                                              | £500                                   |                                    |
| Amount available to meet Interest, as per page 38 of Report ... ..                                      |           |                                                                                   |                                                                                    |                                                              | £314,482                               |                                    |

## COLIBAN SYSTEM.

STATEMENT of Moneys received and disbursed during the year ended 30th June, 1932; and of Interest charged at the rate of 4 per cent. on Capital Debits (including £24,423 at 5 and 6 per cent.).

| District.        | Capital<br>Debit<br>at 30th<br>June, 1932. | Receipts. | Disbursements and Interest Charged. |           |        | Excess.                                         |                                                 |
|------------------|--------------------------------------------|-----------|-------------------------------------|-----------|--------|-------------------------------------------------|-------------------------------------------------|
|                  |                                            |           | Disbursements.                      | Interest. | Total. | Receipts over<br>Disbursements<br>and Interest. | Disbursements<br>and Interest<br>over Receipts. |
|                  | £                                          | £         | £                                   | £         | £      | £                                               | £                                               |
| Coliban ... ..   | 1,607,014                                  | 42,722    | 11,210                              | 64,586    | 75,796 | ...                                             | 33,074                                          |
| Axe Creek ... .. | 1,750                                      | 377       | 351                                 | 70        | 421    | ...                                             | 44                                              |
| Harcourt ... ..  | 11,040                                     | 1,291     | 750                                 | 442       | 1,192  | 99                                              | ...                                             |
| Marong ... ..    | 2,100                                      | 158       | 50                                  | 84        | 134    | 24                                              | ...                                             |
| Totals ... ..    | 1,621,904                                  | 44,548    | 12,361                              | 65,182    | 77,543 | 123                                             | 33,118                                          |

## FLOOD PROTECTION DISTRICTS.

STATEMENT of Moneys received and disbursed from 1st July, 1920, to 30th June, 1932; and of Interest charged at the rate of 4 per cent. on Capital Debits (including £507 at 6 per cent.); and also of Depreciation and Redemption charged as at 30th June, 1932.

### RECEIPTS.

| District.                | 1st July, 1920, to<br>30th June, 1931. | 1931-32. |                                   |        | Grand<br>Total<br>at 30th<br>June,<br>1932. |
|--------------------------|----------------------------------------|----------|-----------------------------------|--------|---------------------------------------------|
|                          |                                        | Charge.  | Interest<br>and<br>Miscellaneous. | Total. |                                             |
|                          | £                                      | £        | £                                 | £      | £                                           |
| 1. Cardinia .. ..        | 15,357                                 | 1,600    | 76                                | 1,676  | 17,033                                      |
| 2. Echuca .. ..          | 1,337                                  | 100      | 3                                 | 103    | 1,440                                       |
| 3. Kanyapella .. ..      | 1,579                                  | 177      | 2                                 | 179    | 1,758                                       |
| 4. Loch Garry .. ..      | 5,140                                  | 1,018    | 68                                | 1,086  | 6,226                                       |
| 5. Lower Kooweerup .. .. | 35,855                                 | 3,386    | 276                               | 3,662  | 39,517                                      |
| Totals .. ..             | 59,268                                 | 6,281    | 425                               | 6,706  | 65,974                                      |

### DISBURSEMENTS, AND INTEREST, DEPRECIATION, AND REDEMPTION CHARGED.

| District.                | DISBURSEMENTS.                                  |                                     |                  |        |                                    | INTEREST CHARGED.                               |                                                 |                                 | (A) DEPRE-<br>CIATION.<br>(B) RE-<br>DEMP-<br>TION. | Grand<br>Total<br>at 30th<br>June,<br>1932. |
|--------------------------|-------------------------------------------------|-------------------------------------|------------------|--------|------------------------------------|-------------------------------------------------|-------------------------------------------------|---------------------------------|-----------------------------------------------------|---------------------------------------------|
|                          | 1st July,<br>1920,<br>to 30th<br>June,<br>1931. | 1931-32.                            |                  |        | Total<br>at 30th<br>June,<br>1932. | 1st July,<br>1920,<br>to 30th<br>June,<br>1931. | 1st July,<br>1931,<br>to<br>30th June,<br>1932. | Total at<br>30th June,<br>1932. |                                                     |                                             |
|                          |                                                 | Repairs<br>and<br>Mainte-<br>nance. | Manage-<br>ment. | Total. |                                    |                                                 |                                                 |                                 |                                                     |                                             |
|                          | £                                               | £                                   | £                | £      | £                                  | £                                               | £                                               | £                               | £                                                   | £                                           |
| 1. Cardinia .. ..        | 4,076                                           | 17                                  | 175              | 192    | 4,268                              | 14,728                                          | 1,800                                           | 16,528                          | ..                                                  | 20,796                                      |
| 2. Echuca .. ..          | 829                                             | 63                                  | 21               | 84     | 913                                | 479                                             | 47                                              | 526                             | ..                                                  | 1,439                                       |
| 3. Kanyapella .. ..      | 553                                             | 129                                 | 61               | 190    | 743                                | 820                                             | 180                                             | 1,000                           | ..                                                  | 1,742                                       |
| 4. Loch Garry .. ..      | 747                                             | 469                                 | 63               | 532    | 1,279                              | 2,909                                           | 461                                             | 3,370                           | (B) 1,000                                           | 5,649                                       |
| 5. Lower Kooweerup .. .. | 7,004                                           | 21                                  | 227              | 248    | 7,252                              | 32,968                                          | 4,000                                           | 36,968                          | ..                                                  | 44,220                                      |
| Totals .. ..             | 13,209                                          | 699                                 | 547              | 1,246  | 14,455                             | 51,904                                          | 6,488                                           | 58,392                          | (B) 1,000                                           | 73,847                                      |

## IRRIGATION AND WATER SUPPLY DISTRICTS.

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, 1932; and of Interest charged at the rate of 4 per cent. on Capital Debts (including £98,209 at 5 and 6 per cent.); and also of Depreciation and Redemption charged, as at 30th June, 1932. (Free Headworks excluded.)

## RECEIPTS.

| District.                    | 1st May, 1906, to 30th June, 1931. | 1931-32. |                               |              |                             |         | Grand Total at 30th June, 1932. |
|------------------------------|------------------------------------|----------|-------------------------------|--------------|-----------------------------|---------|---------------------------------|
|                              |                                    | Rates.   | Compulsory Irrigation Charge. | Water Sales. | Interest and Miscellaneous. | Total.  |                                 |
|                              | £                                  | £        | £                             | £            | £                           | £       | £                               |
| 1. Bacchus Marsh .. .. .     | 95,015                             | 810      | 3,818                         | 584          | 844                         | 6,056   | 101,071                         |
| 2. Boort .. .. .             | 71,638                             | 1,675    | ..                            | 2,110        | 71                          | 3,856   | 75,494                          |
| 3. Calivil .. .. .           | 7,343                              | 674      | ..                            | 1,825        | 62                          | 2,561   | 9,904                           |
| 4. Campaspe .. .. .          | 18,749                             | 851      | ..                            | 94           | 12                          | 957     | 19,706                          |
| 5. Cohuna .. .. .            | 192,563                            | 2,002    | 5,971                         | 1,011        | 394                         | 9,378   | 201,941                         |
| 6. Deakin .. .. .            | 106,362                            | 2,894    | ..                            | 494          | 70                          | 3,458   | 109,820                         |
| 7. Dingee .. .. .            | 29,786                             | 187      | 1,517                         | 98           | 172                         | 1,974   | 31,760                          |
| 8. Dry Lake .. .. .          | 695                                | ..       | ..                            | ..           | 40                          | 40      | 735                             |
| 9. Echuca North .. .. .      | 16,767                             | 243      | 1,391                         | 87           | 88                          | 1,809   | 18,576                          |
| 10. Fish Point .. .. .       | 3,674                              | 56       | 287                           | 111          | 42                          | 496     | 4,170                           |
| 11. Gannawarra .. .. .       | 157,312                            | 1,616    | 4,963                         | 1,019        | 215                         | 7,813   | 165,125                         |
| 12. Katandra .. .. .         | 3,210                              | 162      | ..                            | 726          | 824                         | 1,712   | 4,922                           |
| 13. Kerang .. .. .           | 128,471                            | 2,015    | ..                            | 3,120        | 54                          | 5,189   | 133,660                         |
| 14. Koondrook .. .. .        | 129,708                            | 1,515    | 3,145                         | 502          | 1,262                       | 6,424   | 136,132                         |
| 15. Leitchville .. .. .      | 11,048                             | 860      | 1,389                         | 665          | 21                          | 2,935   | 13,983                          |
| 16. Maffra-Sale .. .. .      | 24,865                             | 2,337    | 8,930                         | 1,144        | 409                         | 12,820  | 37,685                          |
| 17. Merbein .. .. .          | 333,847                            | 1,382    | 32,159                        | 282          | 2,815                       | 36,638  | 370,485                         |
| 18. Mystic Park .. .. .      | 9,520                              | 120      | 360                           | 56           | 17                          | 553     | 10,073                          |
| 19. North Shepparton .. .. . | 8,536                              | 2,132    | ..                            | 792          | 58                          | 2,982   | 11,518                          |
| 20. Nyah .. .. .             | 97,463                             | 469      | 7,911                         | 28           | 1,595                       | 10,003  | 107,466                         |
| 21. Red Cliffs .. .. .       | 227,866                            | 1,193    | 44,015                        | 376          | 1,627                       | 47,211  | 275,077                         |
| 22. Rochester .. .. .        | 259,017                            | 2,763    | 12,752                        | 1,950        | 1,636                       | 19,101  | 278,118                         |
| 23. Rodney .. .. .           | 531,907                            | 6,348    | 16,538                        | 2,756        | 1,680                       | 27,322  | 559,229                         |
| 24. Shepparton .. .. .       | 121,795                            | 1,966    | 5,813                         | 256          | 1,559                       | 9,594   | 131,389                         |
| 25. South Shepparton .. .. . | 12,277                             | 798      | 1,580                         | 237          | 497                         | 3,112   | 15,389                          |
| 26. Stanhope .. .. .         | 56,268                             | 686      | 3,271                         | 308          | 1,072                       | 5,337   | 61,605                          |
| 27. Swan Hill .. .. .        | 137,719                            | 1,100    | 5,440                         | 1,470        | 1,445                       | 9,455   | 147,174                         |
| 28. Third Lake .. .. .       | 5,585                              | 157      | 547                           | 114          | 108                         | 926     | 6,511                           |
| 29. Tongala .. .. .          | 117,797                            | 1,206    | 5,140                         | 539          | 1,159                       | 8,044   | 125,841                         |
| 30. Tragowel Plains .. .. .  | 244,882                            | 1,755    | 8,119                         | 1,165        | 297                         | 11,336  | 256,218                         |
| 31. Tresco .. .. .           | 21,002                             | ..       | 599                           | 2            | 150                         | 751     | 22,653                          |
| 32. Werribee .. .. .         | 80,656                             | 1,017    | 4,736                         | 1,106        | 2,116                       | 8,975   | 89,631                          |
| Totals .. .. .               | 3,264,243                          | 40,980   | 180,391                       | 25,027       | 22,411                      | 268,818 | 3,533,061                       |

## DISBURSEMENTS, AND INTEREST, DEPRECIATION, AND REDEMPTION CHARGED.

| District.               | 1st May, 1906, to 30th June, 1931. | DISBURSEMENTS.           |                        |             |        | INTEREST CHARGED.         |                                   |                                     |                           | (A) DEPRECIATION.<br>(B) REDEMPTION. | Grand Total at 30th June, 1932. |
|-------------------------|------------------------------------|--------------------------|------------------------|-------------|--------|---------------------------|-----------------------------------|-------------------------------------|---------------------------|--------------------------------------|---------------------------------|
|                         |                                    | 1931-32.                 |                        |             |        | Total at 30th June, 1932. | 1st May, 1906 to 30th June, 1931. | 1st July, 1931, to 30th June, 1932. | Total at 30th June, 1932. |                                      |                                 |
|                         |                                    | Repairs and Maintenance. | Distribution of Water. | Management. | Total. |                           |                                   |                                     |                           |                                      |                                 |
|                         | £                                  | £                        | £                      | £           | £      | £                         | £                                 | £                                   | £                         | £                                    | £                               |
| 1. Bacchus Marsh ..     | 22,213                             | 37                       | 720                    | 202         | 959    | 23,172                    | 80,951                            | 5,683                               | 86,634                    | ..                                   | 109,806                         |
| 2. Boort .. ..          | 36,043                             | 183                      | 635                    | 287         | 1,105  | 37,148                    | 31,343                            | 3,903                               | 35,246                    | (B) 1,400                            | 73,794                          |
| 3. Calivil .. ..        | 3,088                              | 256                      | 464                    | 55          | 775    | 3,863                     | 8,026                             | 4,358                               | 12,384                    | ..                                   | 16,247                          |
| 4. Campaspe .. ..       | 11,158                             | 63                       | 373                    | 62          | 498    | 11,656                    | 10,573                            | 481                                 | 11,054                    | ..                                   | 22,710                          |
| 5. Cohuna .. ..         | 114,719                            | 747                      | 1,200                  | 250         | 2,197  | 116,916                   | 80,666                            | 6,305                               | 86,371                    | (A) 9,010                            | 212,297                         |
| 6. Deakin .. ..         | 41,106                             | 213                      | 433                    | 150         | 796    | 41,902                    | 68,971                            | 3,310                               | 72,281                    | ..                                   | 114,183                         |
| 7. Dingee .. ..         | 15,433                             | 180                      | 561                    | 82          | 823    | 16,256                    | 19,522                            | 1,225                               | 20,747                    | ..                                   | 37,003                          |
| 8. Dry Lake .. ..       | 1                                  | ..                       | ..                     | ..          | ..     | 1                         | 694                               | 87                                  | 781                       | ..                                   | 782                             |
| 9. Echuca North ..      | 7,068                              | 106                      | 486                    | 78          | 670    | 7,738                     | 10,985                            | 1,634                               | 12,619                    | ..                                   | 20,357                          |
| 10. Fish Point ..       | 2,734                              | 307                      | 313                    | 50          | 670    | 3,404                     | 2,689                             | 621                                 | 3,310                     | ..                                   | 6,714                           |
| 11. Gannawarra ..       | 85,976                             | 648                      | 1,040                  | 216         | 1,904  | 87,880                    | 70,230                            | 5,604                               | 75,834                    | (A) 5,694                            | 169,408                         |
| 12. Katandra .. ..      | 1,153                              | 456                      | 327                    | 56          | 839    | 1,992                     | 7,878                             | 4,135                               | 12,013                    | ..                                   | 14,005                          |
| 13. Kerang .. ..        | 69,158                             | 815                      | 1,449                  | 481         | 2,745  | 71,903                    | 54,331                            | 4,476                               | 58,807                    | (A) 450                              | 133,860                         |
|                         |                                    |                          |                        |             |        |                           |                                   |                                     |                           | (B) 2,700                            |                                 |
| 14. Koondrook .. ..     | 77,076                             | 636                      | 1,143                  | 332         | 2,111  | 79,187                    | 87,010                            | 7,147                               | 94,157                    | (A) 4,501                            | 177,845                         |
| 15. Leitchville .. ..   | 4,853                              | 370                      | 596                    | 126         | 1,092  | 5,945                     | 6,885                             | 1,635                               | 8,520                     | ..                                   | 14,465                          |
| 16. Maffra—Sale ..      | 9,086                              | 4,625                    | 1,977                  | 512         | 7,114  | 16,200                    | 17,240                            | 6,480                               | 23,720                    | ..                                   | 39,920                          |
| 17. Merbein .. ..       | 257,849                            | 1,398                    | 10,718                 | 389         | 12,505 | 270,354                   | 105,429                           | 8,046                               | 113,475                   | (A) 14,098                           | 397,927                         |
| 18. Mystic Park ..      | 7,072                              | 227                      | 84                     | 98          | 409    | 7,481                     | 4,542                             | 686                                 | 5,228                     | ..                                   | 12,709                          |
| 19. North Shepparton .. | 1,397                              | 96                       | 779                    | 82          | 957    | 2,354                     | 13,197                            | 7,325                               | 20,522                    | ..                                   | 22,876                          |
| 20. Nyah .. ..          | 83,423                             | 267                      | 3,934                  | 380         | 4,581  | 88,004                    | 48,253                            | 3,945                               | 52,198                    | (A) 3,802                            | 144,004                         |
| 21. Red Cliffs .. ..    | 134,378                            | 1,137                    | 18,708                 | 564         | 20,409 | 154,787                   | 89,708                            | 18,300                              | 108,008                   | (A) 10,000                           | 272,795                         |
| 22. Rochester .. ..     | 112,887                            | 1,855                    | 4,530                  | 630         | 7,015  | 119,902                   | 182,124                           | 15,863                              | 197,987                   | ..                                   | 317,889                         |
| 23. Rodney .. ..        | 219,279                            | 972                      | 6,350                  | 941         | 8,263  | 227,542                   | 350,501                           | 24,586                              | 375,087                   | ..                                   | 602,629                         |
| 24. Shepparton .. ..    | 44,769                             | 215                      | 1,746                  | 594         | 2,555  | 47,324                    | 106,819                           | 9,567                               | 116,386                   | ..                                   | 163,710                         |
| 25. South Shepparton .. | 2,794                              | 45                       | 320                    | 74          | 439    | 3,233                     | 9,923                             | 2,730                               | 12,653                    | ..                                   | 15,886                          |
| 26. Stanhope .. ..      | 25,546                             | 435                      | 1,412                  | 197         | 2,044  | 27,590                    | 37,747                            | 4,961                               | 42,708                    | ..                                   | 70,298                          |
| 27. Swan Hill .. ..     | 76,552                             | 2,194                    | 956                    | 433         | 3,583  | 80,135                    | 64,661                            | 6,451                               | 71,112                    | (A) 4,768                            | 156,015                         |
| 28. Third Lake .. ..    | 1,457                              | 42                       | 227                    | 52          | 321    | 1,778                     | 5,691                             | 1,009                               | 6,700                     | ..                                   | 8,478                           |
| 29. Tongala .. ..       | 51,219                             | 615                      | 1,488                  | 322         | 2,425  | 53,644                    | 103,847                           | 8,294                               | 112,141                   | ..                                   | 165,785                         |
| 30. Tragowel Plains ..  | 97,275                             | 871                      | 2,778                  | 363         | 4,012  | 101,287                   | 163,232                           | 13,933                              | 177,165                   | ..                                   | 278,452                         |
| 31. Tresco .. ..        | 28,255                             | 286                      | 1,639                  | 199         | 2,124  | 30,379                    | 26,994                            | 3,619                               | 30,613                    | ..                                   | 60,992                          |
| 32. Werribee .. ..      | 15,647                             | 160                      | 630                    | 253         | 1,043  | 16,690                    | 68,014                            | 8,944                               | 76,958                    | ..                                   | 93,648                          |
| Totals .. ..            | 1,660,664                          | 20,457                   | 68,016                 | 8,510       | 96,983 | 1,757,647                 | 1,938,076                         | 195,343                             | 2,133,419                 | 56,423                               | 3,947,489                       |



## WATERWORKS DISTRICTS.

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, 1932; and of Interest charged at the rate of 4 per cent. on Capital Debts (including £147,367 at 5 and 6 per cent.); and also of Depreciation and Redemption charged, as at 30th June, 1932. (Free Headworks excluded.)

## RECEIPTS.

| District.                           | 1st May, 1906, to 30th June, 1931. | 1931-32. |              |                             |         | Grand Total at 30th June, 1932. |
|-------------------------------------|------------------------------------|----------|--------------|-----------------------------|---------|---------------------------------|
|                                     |                                    | Rates.   | Water Sales. | Interest and Miscellaneous. | Total.  |                                 |
|                                     | £                                  | £        | £            | £                           | £       | £                               |
| 1. Birchip .. .. .                  | 446,437                            | 4,272    | 42           | 317                         | 4,631   | 479,191                         |
| 2. Sea Lake .. .. .                 |                                    | 8,549    | 182          | 730                         | 9,461   |                                 |
| 3. Tyrrell .. .. .                  |                                    | 8,818    | 56           | 1,429                       | 10,303  |                                 |
| 4. Wycheproof .. .. .               |                                    | 7,866    | 43           | 450                         | 8,359   |                                 |
| 5. Carwarp .. .. .                  | 10,721                             | 893      | ..           | 224                         | 1,117   | 11,838                          |
| 6. Carwarp Central .. .. .          | 976                                | 78       | ..           | 48                          | 126     | 1,102                           |
| 7. Dering .. .. .                   | 2,220                              | 486      | ..           | 123                         | 609     | 2,829                           |
| 8. Eureka .. .. .                   | 1,263                              | 157      | ..           | 50                          | 207     | 1,470                           |
| 9. Hindmarsh .. .. .                | 2,017                              | 1,323    | ..           | 54                          | 1,377   | 3,394                           |
| 10. Karkaroc .. .. .                | 182,697                            | 14,386   | 4            | 783                         | 15,173  | 197,870                         |
| 11. Kerang North-West Lakes .. .. . | 2,923                              | 137      | ..           | 3                           | 140     | 3,063                           |
| 12. Kia .. .. .                     | 1,015                              | 581      | ..           | 71                          | 652     | 1,667                           |
| 13. Long Lake .. .. .               | 151,955                            | 7,761    | ..           | 637                         | 8,398   | 160,353                         |
| 14. Millewa .. .. .                 | ..                                 | 1,798    | 84           | 3,180                       | 5,062   | 5,062                           |
| 15. Millewa Central .. .. .         | ..                                 | 1,740    | ..           | 1,506                       | 3,246   | 3,246                           |
| 16. Mornington Peninsula .. .. .    | 42,984                             | 3,000    | ..           | 48                          | 3,048   | 46,032                          |
| 17. Narre Warren .. .. .            | 1,567                              | 53       | 118          | 25                          | 196     | 1,763                           |
| 18. Tyntynder .. .. .               | 87,041                             | 3,950    | ..           | 533                         | 4,483   | 91,524                          |
| 19. Upper Western Wimmera .. .. .   | 69,132                             | 4,220    | ..           | 75                          | 4,295   | 73,427                          |
| 20. Upper Wimmera United .. .. .    | 113,569                            | 7,435    | ..           | 281                         | 7,716   | 121,285                         |
| 21. Waipup Central .. .. .          | ..                                 | 838      | ..           | 60                          | 898     | 898                             |
| 22. Waipup West .. .. .             | 25,123                             | 1,400    | 25           | 116                         | 1,541   | 26,664                          |
| 23. Werribee .. .. .                | 8,148                              | 534      | 10           | 8                           | 552     | 8,700                           |
| 24. Western Wimmera .. .. .         | 243,691                            | 12,926   | 1,445        | 283                         | 14,654  | 258,345                         |
| 25. Wimmera United .. .. .          | 268,949                            | 17,709   | 947          | 636                         | 19,292  | 288,241                         |
| 26. Yelta .. .. .                   | 4,227                              | 512      | 3            | 44                          | 559     | 4,786                           |
| Totals .. .. .                      | 1,666,655                          | 111,422  | 2,959        | 11,714                      | 126,095 | 1,792,750                       |

## DISBURSEMENTS, AND INTEREST, DEPRECIATION, AND REDEMPTION CHARGED.

| District.                                                 | DISBURSEMENTS.                    |                         |                        |             |        |                           | INTEREST CHARGED.                 |                                     |                           | (A) DEPRECIATION. | (B) REDEMPTION. | Grand Total at 30th June, 1932. |
|-----------------------------------------------------------|-----------------------------------|-------------------------|------------------------|-------------|--------|---------------------------|-----------------------------------|-------------------------------------|---------------------------|-------------------|-----------------|---------------------------------|
|                                                           | 1st May 1906, to 30th June, 1931. | Repairs and Maintenance | Distribution of Water. | Management. | Total. | Total at 30th June, 1932. | 1st May 1906, to 30th June, 1931. | 1st July, 1931, to 30th June, 1932. | Total at 30th June, 1932. |                   |                 |                                 |
|                                                           |                                   |                         |                        |             |        |                           |                                   |                                     |                           |                   |                 |                                 |
|                                                           | £                                 | £                       | £                      | £           | £      | £                         | £                                 | £                                   | £                         | £                 | £               |                                 |
| 1. Birchip; 2. Sea Lake; }<br>3. Tyrrell; 4. Wycheproof } | 235,606                           | 14,427                  | 3,584                  | 1,008       | 19,019 | 254,625                   | 288,382                           | 28,309                              | 316,691                   | ..                | ..              | 571,316                         |
| 5. Carwarp .. .. .                                        | 20,851                            | 1,389                   | 455                    | 50          | 1,894  | 22,745                    | 11,606                            | 1,621                               | 13,227                    | A                 | 586             | 36,558                          |
| 6. Carwarp Central .. .. .                                | 885                               | 23                      | 111                    | 22          | 156    | 1,041                     | 698                               | 94                                  | 792                       | A                 | 10              | 1,843                           |
| 7. Dering .. .. .                                         | 1,493                             | 135                     | 7                      | 32          | 174    | 1,667                     | 2,314                             | 460                                 | 2,774                     | ..                | ..              | 4,441                           |
| 8. Eureka .. .. .                                         | 2,299                             | 7                       | 137                    | 32          | 176    | 2,475                     | 925                               | 160                                 | 1,085                     | ..                | ..              | 3,560                           |
| 9. Hindmarsh .. .. .                                      | 1,101                             | 204                     | 48                     | 29          | 281    | 1,382                     | 1,849                             | 1,097                               | 2,946                     | A                 | 280             | 4,608                           |
| 10. Karkaroc .. .. .                                      | 73,566                            | 6,397                   | 1,275                  | 345         | 8,017  | 81,583                    | 125,386                           | 10,913                              | 136,299                   | ..                | ..              | 217,882                         |
| 11. Kerang N.W. Lakes .. .. .                             | 1,797                             | 22                      | 50                     | 26          | 98     | 1,895                     | 1,400                             | 80                                  | 1,480                     | ..                | ..              | 3,375                           |
| 12. Kia .. .. .                                           | 972                               | 636                     | 83                     | 23          | 742    | 1,714                     | 673                               | 275                                 | 948                       | ..                | ..              | 2,662                           |
| 13. Long Lake .. .. .                                     | 94,384                            | 1,549                   | 1,730                  | 207         | 3,486  | 97,870                    | 68,359                            | 6,113                               | 74,472                    | A                 | 8,305           | 180,647                         |
| 14. Millewa .. .. .                                       | ..                                | 2,569                   | 10,637                 | 340         | 13,546 | 13,546                    | ..                                | 5,350                               | 5,350                     | ..                | ..              | 18,896                          |
| 15. Millewa Central .. .. .                               | ..                                | 521                     | 3,630                  | 150         | 4,301  | 4,301                     | ..                                | 4,000                               | 4,000                     | ..                | ..              | 8,301                           |
| 16. Mornington Peninsula .. .. .                          | 5,959                             | 170                     | 132                    | 110         | 412    | 6,371                     | 34,550                            | 2,720                               | 37,270                    | ..                | ..              | 43,641                          |
| 17. Narre Warren .. .. .                                  | 215                               | 9                       | 7                      | 7           | 23     | 238                       | 1,543                             | 412                                 | 1,955                     | ..                | ..              | 2,193                           |
| 18. Tyntynder .. .. .                                     | 59,387                            | 2,499                   | 1,275                  | 115         | 3,889  | 63,276                    | 69,625                            | 8,155                               | 77,780                    | ..                | ..              | 141,056                         |
| 19. Upper Western Wimmera .. .. .                         | 27,647                            | 467                     | 439                    | 88          | 994    | 28,641                    | 35,200                            | 2,932                               | 38,132                    | A                 | 606             | 68,879                          |
| 20. Upper Wimmera United .. .. .                          | 37,012                            | 862                     | 503                    | 153         | 1,518  | 38,530                    | 73,296                            | 5,770                               | 79,066                    | B                 | 2,390           | 119,986                         |
| 21. Waipcup Central .. .. .                               | ..                                | 241                     | 277                    | 30          | 548    | 548                       | ..                                | 1,084                               | 1,084                     | A                 | 1,200           | 2,832                           |
| 22. Waipcup West .. .. .                                  | 19,398                            | 685                     | ..                     | 69          | 754    | 20,152                    | 12,232                            | 1,411                               | 13,643                    | ..                | ..              | 33,795                          |
| 23. Werribee .. .. .                                      | 2,458                             | 64                      | 109                    | 47          | 220    | 2,678                     | 7,171                             | 598                                 | 7,769                     | ..                | ..              | 10,447                          |
| 24. Western Wimmera .. .. .                               | 111,305                           | 1,856                   | 1,727                  | 351         | 3,934  | 115,239                   | 117,203                           | 9,053                               | 126,256                   | A                 | 2,422           | 249,317                         |
| 25. Wimmera United .. .. .                                | 91,629                            | 2,011                   | 1,173                  | 355         | 3,539  | 95,168                    | 164,061                           | 12,956                              | 177,017                   | B                 | 5,310           | 277,495                         |
| 26. Yelta .. .. .                                         | 3,411                             | 522                     | 154                    | 38          | 714    | 4,125                     | 2,290                             | 248                                 | 2,538                     | ..                | ..              | 6,663                           |
| Totals .. .. .                                            | 791,375                           | 37,265                  | 27,543                 | 3,627       | 68,435 | 859,810                   | 1,018,763                         | 103,811                             | 1,122,574                 | ..                | ..              | 2,010,393                       |

## DISTRICTS HELD IN TRUST BY THE COMMISSION.

STATEMENT OF RECEIPTS AND DISBURSEMENTS FOR THE YEAR ENDED 31st DECEMBER, 1931.

## RECEIPTS.

| Name of Trust.                         | Bank Balance, at 31st December, 1930. | 1931.  |              |                             |        | Grand Total for Year 1931. |
|----------------------------------------|---------------------------------------|--------|--------------|-----------------------------|--------|----------------------------|
|                                        |                                       | Rates. | Water Sales. | Interest and Miscellaneous. | Total. |                            |
|                                        | £                                     | £      | £            | £                           | £      | £                          |
| Avoca .. .. .                          | Cr. 113                               | 397    | 9            | 18                          | 424    | 537                        |
| Avoca (Quambatook, Urban) .. .. .      | Cr. 88                                | 434    | 33           | 24                          | 491    | 579                        |
| Carrum .. .. .                         | Dr. 140                               | 1,640  | ..           | 290                         | 1,930  | 1,790                      |
| Loddon United .. .. .                  | Dr. 856                               | 1,617  | 10           | 33                          | 1,660  | 804                        |
| Loddon United (Mitiamo, Urban) .. .. . | Dr. 78                                | 111    | 252          | 5                           | 368    | 290                        |
| Totals .. .. .                         | Cr. 201<br>Dr. 1,074                  | 4,199  | 304          | 370                         | 4,873  | 4,000                      |

## DISBURSEMENTS.

| Name of Trust.                         | 1931.                    |                     |             |        |           |                                      | Grand Total for Year 1931. | Bank Balance carried forward 1st January, 1932. |
|----------------------------------------|--------------------------|---------------------|-------------|--------|-----------|--------------------------------------|----------------------------|-------------------------------------------------|
|                                        | Repairs and Maintenance. | Water Distribution. | Management. | Total. | Interest. | (A) Depreciation.<br>(B) Redemption. |                            |                                                 |
|                                        | £                        | £                   | £           | £      | £         | £                                    | £                          | £                                               |
| Avoca .. .. .                          | 139                      | ..                  | 137         | 276    | 144       | B 107                                | 527                        | Cr. 10                                          |
| Avoca (Quambatook, Urban) .. .. .      | 106                      | 150                 | 58          | 312    | 131       | A 60<br>B 19                         | 522                        | Cr. 57                                          |
| Carrum .. .. .                         | 783                      | ..                  | 155         | 938    | 1,129     | B 267                                | 2,334                      | Dr. 544                                         |
| Loddon United .. .. .                  | 265                      | 295                 | 207         | 767    | 502       | B 329                                | 1,598                      | Dr. 794                                         |
| Loddon United (Mitiamo, Urban) .. .. . | 111                      | ..                  | 22          | 133    | 213       | A 28<br>B 19                         | 393                        | Dr. 103                                         |
| Totals .. .. .                         | 1,404                    | 445                 | 577         | 2,426  | 2,119     | A 88<br>B 741                        | 5,374                      | Cr. 67<br>Dr. 1,441                             |

## URBAN DISTRICTS

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, £13,915 at 5 and 6 per cent.); and also of Depreciation and Redemption charged,

## RECEIPTS.

| District or Division.       | 1st May,<br>1906,<br>to<br>30th June,<br>1931. | 1931-32. |              |                                     |        | Grand<br>Total at 30th<br>June, 1932. |
|-----------------------------|------------------------------------------------|----------|--------------|-------------------------------------|--------|---------------------------------------|
|                             |                                                | Rates.   | Water Sales. | Interest and<br>Miscel-<br>laneous. | Total. |                                       |
|                             | £                                              | £        | £            | £                                   | £      | £                                     |
| 1. Antwerp .. .. .          | 104                                            | 70       | ..           | ..                                  | 70     | 174                                   |
| 2. Bacchus Marsh .. .. .    | 28,643                                         | 1,224    | 391          | 5                                   | 1,620  | 30,263                                |
| 3. Berrillock .. .. .       | 3,335                                          | 321      | 16           | 27                                  | 364    | 3,699                                 |
| 4. Berwick .. .. .          | 3,902                                          | 710      | 118          | 50                                  | 878    | 4,780                                 |
| 5. Beulah .. .. .           | 9,388                                          | 604      | 61           | 42                                  | 707    | 10,095                                |
| 6. Birchip .. .. .          | 20,028                                         | 675      | 336          | 105                                 | 1,116  | 21,144                                |
| 7. Bittern .. .. .          | 1,001                                          | 99       | 35           | 4                                   | 138    | 1,139                                 |
| 8. Brim .. .. .             | 1,890                                          | 286      | 7            | 31                                  | 324    | 2,214                                 |
| 9. Bunyip .. .. .           | ..                                             | 461      | ..           | 10                                  | 471    | 471                                   |
| 10. Carrum .. .. .          | 52,725                                         | 5,907    | 318          | 429                                 | 6,654  | 59,379                                |
| 11. Carwarp .. .. .         | 142                                            | 34       | ..           | 1                                   | 35     | 177                                   |
| 12. Chillingollah .. .. .   | 703                                            | 102      | 75           | 4                                   | 181    | 884                                   |
| 13. Chinkapook .. .. .      | 505                                            | 196      | ..           | 2                                   | 198    | 703                                   |
| 14. Cohuna .. .. .          | 12,335                                         | 868      | 75           | 62                                  | 1,005  | 13,340                                |
| 15. Corop .. .. .           | 641                                            | 24       | ..           | ..                                  | 24     | 665                                   |
| 16. Cranbourne .. .. .      | 5,509                                          | 334      | 179          | 21                                  | 534    | 6,043                                 |
| 17. Crib Point .. .. .      | 271                                            | 521      | ..           | 14                                  | 535    | 806                                   |
| 18. Culgoa .. .. .          | 3,543                                          | 209      | 119          | 18                                  | 346    | 3,889                                 |
| 19. Dandenong .. .. .       | 43,518                                         | 4,081    | 653          | 264                                 | 4,998  | 48,516                                |
| 20. Dimboola.. .. .         | 35,786                                         | 1,342    | 426          | 136                                 | 1,904  | 37,690                                |
| 21. Dingee .. .. .          | 518                                            | 106      | ..           | 3                                   | 109    | 627                                   |
| 22. Doon .. .. .            | 53                                             | 7        | 18           | ..                                  | 25     | 78                                    |
| 23. Frankston .. .. .       | 32,317                                         | 3,664    | 825          | 107                                 | 4,596  | 36,913                                |
| 24. Garfield .. .. .        | ..                                             | 349      | 1            | 12                                  | 362    | 362                                   |
| 25. Hastings .. .. .        | 1,377                                          | 298      | 6            | 5                                   | 309    | 1,686                                 |
| 26. Heyfield .. .. .        | ..                                             | 477      | ..           | 7                                   | 484    | 484                                   |
| 27. Hicksborough .. .. .    | 96                                             | 83       | ..           | 1                                   | 84     | 180                                   |
| 28. Hopetoun .. .. .        | 11,522                                         | 865      | 180          | 77                                  | 1,122  | 12,644                                |
| 29. Jeparit .. .. .         | 13,353                                         | 849      | 151          | 32                                  | 1,032  | 14,385                                |
| 30. Jung Jung .. .. .       | 1,860                                          | 114      | 10           | 5                                   | 129    | 1,989                                 |
| 31. Koondrook .. .. .       | 7,076                                          | 459      | ..           | 16                                  | 475    | 7,551                                 |
| 32. Lake Boga .. .. .       | 6,160                                          | 328      | 3            | 28                                  | 359    | 6,519                                 |
| 33. Lalbert .. .. .         | 2,070                                          | 275      | 129          | 15                                  | 419    | 2,489                                 |
| 34. Lascelles .. .. .       | 2,233                                          | 134      | 16           | 16                                  | 166    | 2,399                                 |
| 35. Leitchville .. .. .     | 2,288                                          | 347      | 1            | 27                                  | 375    | 2,663                                 |
| 36. Lockington .. .. .      | 1,739                                          | 266      | 4            | 18                                  | 288    | 2,027                                 |
| 37. Manangatang .. .. .     | 3,434                                          | 485      | 101          | 19                                  | 605    | 4,039                                 |
| 38. Marnoo .. .. .          | 1,710                                          | 329      | 130          | 11                                  | 470    | 2,180                                 |
| 39. Merbein .. .. .         | 11,698                                         | 1,327    | 73           | 117                                 | 1,517  | 13,215                                |
| 40. Meringur .. .. .        | 262                                            | 220      | 4            | 17                                  | 241    | 503                                   |
| 41. Minyip .. .. .          | 13,672                                         | 852      | 105          | 84                                  | 1,041  | 14,713                                |
| 42. Mornington .. .. .      | 23,307                                         | 2,755    | 246          | 184                                 | 3,185  | 26,492                                |
| 43. Mount Martha .. .. .    | 1,768                                          | 683      | 48           | 18                                  | 749    | 2,517                                 |
| 44. Murrabit .. .. .        | 93                                             | 65       | 5            | 1                                   | 71     | 164                                   |
| 45. Nandaly .. .. .         | 699                                            | 156      | ..           | 10                                  | 166    | 865                                   |
| 46. Natimuk .. .. .         | 10,695                                         | 254      | 134          | 57                                  | 445    | 11,140                                |
| 47. North Wonthaggi .. .. . | 1,619                                          | 457      | ..           | 3                                   | 460    | 2,079                                 |
| 48. Nullawil .. .. .        | 754                                            | 177      | 5            | 17                                  | 199    | 953                                   |
| 49. Nyah .. .. .            | 1,160                                          | 84       | 5            | 2                                   | 91     | 1,251                                 |
| 50. Nyah West .. .. .       | 4,734                                          | 714      | 30           | 18                                  | 762    | 5,496                                 |
| 51. Ouyen .. .. .           | 19,036                                         | 1,552    | 573          | 110                                 | 2,235  | 21,271                                |
| 52. Pakenham .. .. .        | 3,574                                          | 593      | 407          | 12                                  | 1,012  | 4,586                                 |
| 53. Patchewollock .. .. .   | 393                                            | 182      | ..           | 16                                  | 198    | 591                                   |
| 54. Piangil .. .. .         | 3,255                                          | 273      | 173          | 10                                  | 456    | 3,711                                 |
| 55. Pyramid Hill .. .. .    | 2,852                                          | 594      | 27           | 51                                  | 672    | 3,524                                 |
| 56. Rainbow .. .. .         | 17,817                                         | 811      | 146          | 58                                  | 1,015  | 18,832                                |
| 57. Red Cliffs .. .. .      | 9,622                                          | 1,300    | 129          | 66                                  | 1,495  | 11,117                                |
| 58. Rupanyup .. .. .        | 11,947                                         | 643      | 51           | 50                                  | 744    | 12,691                                |
| 59. Sea Lake .. .. .        | 14,371                                         | 731      | 297          | 94                                  | 1,122  | 15,493                                |
| 60. Somerville .. .. .      | 2,075                                          | 226      | 54           | 1                                   | 281    | 2,356                                 |
| 61. South Frankston .. .. . | 10,174                                         | 1,437    | 145          | 13                                  | 1,595  | 11,769                                |
| 62. Speed .. .. .           | 422                                            | 221      | ..           | 22                                  | 243    | 665                                   |
| 63. Spring Vale .. .. .     | 12,312                                         | 2,134    | 113          | 88                                  | 2,335  | 14,647                                |
| 64. Stanhope .. .. .        | 1,078                                          | 215      | ..           | 8                                   | 223    | 1,301                                 |
| 65. Tempy .. .. .           | 423                                            | 159      | 11           | 13                                  | 183    | 606                                   |
| 66. Ultima .. .. .          | 6,864                                          | 375      | 19           | 53                                  | 447    | 7,311                                 |
| 67. Waitchie .. .. .        | 432                                            | 128      | 3            | 7                                   | 138    | 570                                   |
| 68. Watchem .. .. .         | 5,089                                          | 307      | 19           | 40                                  | 366    | 5,455                                 |
| 69. Werrimull .. .. .       | 881                                            | 484      | 18           | 23                                  | 525    | 1,406                                 |
| 70. Wonthaggi .. .. .       | 78,357                                         | 2,495    | 2,467        | 18                                  | 4,980  | 83,337                                |
| 71. Woomelang .. .. .       | 12,743                                         | 377      | 228          | 44                                  | 649    | 13,392                                |
| 72. Woorinen.. .. .         | 588                                            | 150      | ..           | 6                                   | 156    | 744                                   |
| 73. Wycheproof .. .. .      | 14,050                                         | 845      | 195          | 90                                  | 1,130  | 15,180                                |
| 74. Yaapeet .. .. .         | 187                                            | 90       | ..           | 7                                   | 97     | 284                                   |
| Totals .. .. .              | 610,778                                        | 51,569   | 10,114       | 3,052                               | 64,735 | 675,513                               |

## AND DIVISIONS.

1932; and of Interest charged, at the rate of 4 per cent. on Capital Debts (including as at 30th June, 1932. (Free Headworks excluded).

## DISBURSEMENTS, AND INTEREST, DEPRECIATION, AND REDEMPTION CHARGED.

| District or Division.  | 1st May, 1906, to 30th June, 1931. | DISBURSEMENTS.           |                        |             |        | INTEREST CHARGED.         |                                    |                                     |                           | DEPRECIATION.     |                 | Grand Total at 30th June, 1932. |
|------------------------|------------------------------------|--------------------------|------------------------|-------------|--------|---------------------------|------------------------------------|-------------------------------------|---------------------------|-------------------|-----------------|---------------------------------|
|                        |                                    | 1931-32.                 |                        |             |        | Total at 30th June, 1932. | 1st May, 1906, to 30th June, 1931. | 1st July, 1931, to 30th June, 1932. | Total at 30th June, 1932. | (a) DEPRECIATION. | (b) REDEMPTION. |                                 |
|                        |                                    | Repairs and Maintenance. | Distribution of Water. | Management. | Total. |                           |                                    |                                     |                           |                   |                 |                                 |
|                        | £                                  | £                        | £                      | £           | £      | £                         | £                                  | £                                   | £                         | £                 | £               | £                               |
| 1. Antwerp ..          | 42                                 | 2                        | 12                     | 11          | 25     | 67                        | 44                                 | 38                                  | 82                        | (a)               | 9               | 158                             |
| 2. Bacchus Marsh ..    | 6,855                              | 12                       | 141                    | 104         | 257    | 7,112                     | 21,174                             | 1,477                               | 22,651                    | (a)               | 686             | 30,449                          |
| 3. Berrillock ..       | 1,746                              | 38                       | 13                     | 34          | 85     | 1,831                     | 1,643                              | 216                                 | 1,859                     | (a)               | 64              | 3,754                           |
| 4. Berwick ..          | 501                                | 36                       | 28                     | 30          | 94     | 595                       | 3,414                              | 665                                 | 4,079                     |                   |                 | 4,674                           |
| 5. Beulah ..           | 4,101                              | 16                       | 234                    | 32          | 282    | 4,383                     | 4,987                              | 337                                 | 5,324                     | (a)               | 76              | 9,783                           |
| 6. Birchip ..          | 9,307                              | 45                       | 155                    | 75          | 275    | 9,582                     | 9,770                              | 683                                 | 10,453                    | (a)(b)            | 1,008           | 21,043                          |
| 7. Bittern ..          | 124                                | 6                        | 6                      | 6           | 18     | 142                       | 889                                | 150                                 | 1,039                     |                   |                 | 1,181                           |
| 8. Brim ..             | 478                                | 10                       | 18                     | 24          | 52     | 530                       | 1,122                              | 241                                 | 1,363                     | (a)               | 147             | 2,040                           |
| 9. Bunyip ..           | ..                                 | 22                       | 18                     | 20          | 60     | 60                        | ..                                 | 411                                 | 411                       |                   |                 | 471                             |
| 10. Carrum ..          | 8,517                              | 360                      | 281                    | 300         | 941    | 9,458                     | 44,740                             | 6,500                               | 51,240                    |                   |                 | 60,698                          |
| 11. Carwarp ..         | 67                                 | 5                        | 6                      | 8           | 19     | 86                        | 74                                 | 26                                  | 100                       | (a)               | 87              | 273                             |
| 12. Chillingollah ..   | 329                                | 27                       | 24                     | 24          | 75     | 404                       | 698                                | 149                                 | 847                       | (a)               | 120             | 1,371                           |
| 13. Chinkapook ..      | 123                                | 1                        | 18                     | 23          | 42     | 165                       | 299                                | 103                                 | 402                       | (a)               | 159             | 726                             |
| 14. Cohuna ..          | 3,502                              | 81                       | 62                     | 70          | 213    | 3,715                     | 7,842                              | 782                                 | 8,624                     | (a) (b)           | 773             | 13,112                          |
| 15. Corop ..           | 311                                | 2                        | 5                      | 9           | 16     | 327                       | 321                                | 14                                  | 335                       | (a)               | 51              | 713                             |
| 16. Cranbourne ..      | 705                                | 17                       | 15                     | 45          | 77     | 782                       | 5,136                              | 648                                 | 5,784                     |                   |                 | 6,566                           |
| 17. Crib Point ..      | 35                                 | 36                       | 28                     | 30          | 94     | 129                       | 179                                | 293                                 | 472                       | (a)               | 116             | 717                             |
| 18. Culgoa ..          | 1,482                              | 58                       | 18                     | 33          | 109    | 1,591                     | 2,085                              | 269                                 | 2,354                     | (a)               | 54              | 3,999                           |
| 19. Dandenong ..       | 7,210                              | 227                      | 178                    | 190         | 595    | 7,805                     | 35,305                             | 4,650                               | 39,955                    | (a)               | 500             | 48,260                          |
| 20. Dimboola ..        | 21,986                             | 234                      | 170                    | 105         | 509    | 22,495                    | 10,683                             | 1,286                               | 11,969                    | (a)(b)            | 1,620<br>1,230  | 37,314                          |
| 21. Dingee ..          | 209                                | 9                        | 12                     | 11          | 32     | 241                       | 339                                | 62                                  | 401                       | (a)               | 84              | 726                             |
| 22. Doon ..            | 34                                 | ..                       | 6                      | 9           | 15     | 49                        | 56                                 | 28                                  | 84                        | (a)               | 4               | 137                             |
| 23. Frankston ..       | 5,083                              | 206                      | 160                    | 172         | 538    | 5,621                     | 27,313                             | 4,130                               | 31,443                    |                   |                 | 37,064                          |
| 24. Garfield ..        | ..                                 | 22                       | 20                     | 20          | 62     | 62                        | ..                                 | 288                                 | 288                       |                   |                 | 350                             |
| 25. Hastings ..        | 252                                | 18                       | 15                     | 16          | 49     | 301                       | 1,185                              | 277                                 | 1,462                     |                   |                 | 1,763                           |
| 26. Heyfield ..        | ..                                 | 131                      | 108                    | 39          | 278    | 278                       | ..                                 | 392                                 | 392                       |                   |                 | 670                             |
| 27. Hicksborough ..    | 44                                 | 15                       | 15                     | 16          | 46     | 90                        | 49                                 | 50                                  | 99                        | (a)               | 20              | 209                             |
| 28. Hopetoun ..        | 6,500                              | 29                       | 367                    | 43          | 439    | 6,939                     | 5,110                              | 629                                 | 5,739                     | (b)               | 150             | 12,828                          |
| 29. Jeparit ..         | 2,693                              | 39                       | 54                     | 49          | 142    | 2,835                     | 9,344                              | 886                                 | 10,230                    | (b)               | 800             | 13,865                          |
| 30. Jung Jung ..       | 1,210                              | 5                        | 45                     | 13          | 63     | 1,273                     | 734                                | 64                                  | 798                       | (a)               | 60              | 2,131                           |
| 31. Koondrook ..       | 3,758                              | 4                        | 213                    | 43          | 260    | 4,018                     | 3,191                              | 183                                 | 3,374                     | (a)               | 300             | 7,692                           |
| 32. Lake Boga ..       | 3,023                              | 24                       | 156                    | 50          | 230    | 3,253                     | 3,232                              | 166                                 | 3,398                     | (a) (b)           | 288             | 6,939                           |
| 33. Lalbert ..         | 447                                | 8                        | 12                     | 50          | 70     | 517                       | 1,493                              | 282                                 | 1,775                     | (a)               | 459             | 2,751                           |
| 34. Lascelles ..       | 1,178                              | 21                       | 48                     | 24          | 93     | 1,271                     | 1,276                              | 121                                 | 1,397                     | (a)               | 136             | 2,804                           |
| 35. Leitchville ..     | 1,292                              | 49                       | 51                     | 31          | 131    | 1,423                     | 1,054                              | 88                                  | 1,442                     | (a)               | 168             | 2,733                           |
| 36. Lockington ..      | 399                                | 11                       | 26                     | 28          | 65     | 464                       | 1,276                              | 192                                 | 1,468                     | (a)               | 270             | 2,202                           |
| 37. Manangatang ..     | 963                                | 17                       | 24                     | 45          | 86     | 1,049                     | 2,066                              | 439                                 | 2,505                     | (a)               | 455             | 4,009                           |
| 38. Marnoo ..          | 335                                | ..                       | 24                     | 28          | 52     | 387                       | 1,037                              | 334                                 | 1,371                     | (a)               | 378             | 2,136                           |
| 39. Merbein ..         | 5,605                              | 24                       | 426                    | 125         | 575    | 6,180                     | 6,091                              | 750                                 | 6,841                     | (a)               | 500             | 13,521                          |
| 40. Meringur ..        | 95                                 | 13                       | 12                     | 26          | 51     | 146                       | 149                                | 147                                 | 296                       | (a)               | 60              | 502                             |
| 41. Minyip ..          | 4,257                              | 34                       | 168                    | 65          | 267    | 4,524                     | 8,495                              | 748                                 | 9,243                     | (a)(b)            | 515<br>424      | 14,706                          |
| 42. Mornington ..      | 3,656                              | 152                      | 118                    | 127         | 397    | 4,053                     | 19,413                             | 3,000                               | 22,413                    |                   |                 | 26,466                          |
| 43. Mount Martha ..    | 278                                | 35                       | 27                     | 29          | 91     | 369                       | 1,480                              | 560                                 | 2,040                     |                   |                 | 2,409                           |
| 44. Murrabit ..        | 51                                 | 7                        | 10                     | 13          | 30     | 81                        | 61                                 | 41                                  | 102                       |                   |                 | 183                             |
| 45. Nandaly ..         | 263                                | 1                        | 12                     | 18          | 31     | 294                       | 311                                | 109                                 | 420                       | (a)               | 144             | 858                             |
| 46. Natimuk ..         | 2,783                              | 17                       | 36                     | 37          | 90     | 2,873                     | 7,295                              | 342                                 | 7,637                     | (b)               | 750             | 11,260                          |
| 47. North Wonthaggi .. | 505                                | 80                       | 50                     | 45          | 175    | 680                       | 998                                | 284                                 | 1,282                     | (a)               | 200             | 2,162                           |
| 48. Nullawil ..        | 295                                | 38                       | 16                     | 18          | 72     | 367                       | 654                                | 168                                 | 822                       |                   |                 | 1,189                           |
| 49. Nyah ..            | 482                                | 1                        | 24                     | 24          | 49     | 531                       | 550                                | 55                                  | 605                       | (a)               | 72              | 1,208                           |
| 50. Nyah West ..       | 1,274                              | 45                       | 77                     | 51          | 173    | 1,447                     | 3,165                              | 502                                 | 3,667                     | (a)               | 546             | 5,660                           |
| 51. Ouyen ..           | 7,353                              | 20                       | 414                    | 132         | 566    | 7,919                     | 11,437                             | 1,552                               | 12,989                    | (a)               | 500             | 21,408                          |
| 52. Pakenham ..        | 339                                | 36                       | 28                     | 29          | 93     | 432                       | 2,820                              | 930                                 | 3,750                     | (a)               | 340             | 4,522                           |
| 53. Patchewollock ..   | 164                                | 16                       | ..                     | 21          | 37     | 201                       | 322                                | 128                                 | 450                       | (a)               | 138             | 789                             |
| 54. Piangil ..         | 906                                | 5                        | 76                     | 38          | 119    | 1,025                     | 1,970                              | 231                                 | 2,201                     | (a)               | 476             | 3,702                           |
| 55. Pyramid Hill ..    | 1,245                              | 49                       | 93                     | 37          | 179    | 1,424                     | 1,470                              | 398                                 | 1,868                     | (a)               | 270             | 3,562                           |
| 56. Rainbow ..         | 3,350                              | 8                        | 79                     | 47          | 134    | 3,484                     | 12,593                             | 926                                 | 13,519                    | (a)(b)            | 1,720           | 18,723                          |
| 57. Red Cliffs ..      | 4,549                              | 76                       | 348                    | 95          | 519    | 5,068                     | 3,785                              | 971                                 | 4,756                     | (a)               | 480             | 10,304                          |
| 58. Rupanyup ..        | 3,919                              | 43                       | 126                    | 29          | 198    | 4,117                     | 7,015                              | 614                                 | 7,629                     | (a) (b)           | 883             | 12,629                          |
| 59. Sea Lake ..        | 7,284                              | 110                      | 199                    | 65          | 374    | 7,658                     | 5,837                              | 644                                 | 6,481                     | (a)               | 1,049           | 15,188                          |
| 60. Somerville ..      | 347                                | 12                       | 10                     | 10          | 32     | 379                       | 1,899                              | 240                                 | 2,139                     |                   |                 | 2,518                           |
| 61. South Frankston .. | 1,518                              | 85                       | 66                     | 71          | 222    | 1,740                     | 8,643                              | 1,400                               | 10,043                    |                   |                 | 11,783                          |
| 62. Speed ..           | 155                                | 1                        | 18                     | 23          | 42     | 197                       | 187                                | 159                                 | 346                       | (a)               | 180             | 723                             |
| 63. Spring Vale ..     | 1,745                              | 128                      | 100                    | 107         | 335    | 2,080                     | 10,230                             | 2,100                               | 12,330                    |                   |                 | 14,410                          |
| 64. Stanhope ..        | 290                                | 5                        | 16                     | 17          | 38     | 328                       | 737                                | 143                                 | 880                       | (a)               | 192             | 1,400                           |
| 65. Tomy ..            | 182                                | ..                       | 18                     | 23          | 41     | 223                       | 239                                | 103                                 | 342                       | (a)               | 156             | 721                             |
| 66. Ultima ..          | 2,502                              | 43                       | 28                     | 41          | 112    | 2,614                     | 4,205                              | 409                                 | 4,614                     | (a)               | 190             | 7,418                           |
| 67. Waitehie ..        | 288                                | 13                       | 12                     | 14          | 39     | 327                       | 436                                | 102                                 | 538                       | (a)               | 180             | 1,045                           |
| 68. Watchem ..         | 1,653                              | 11                       | 18                     | 30          | 59     | 1,712                     | 3,342                              | 266                                 | 3,608                     | (a)               | 170             | 5,490                           |
| 69. Werrimull ..       | 205                                | 33                       | 24                     | 41          | 98     | 303                       | 512                                | 304                                 | 816                       | (a)               | 146             | 1,265                           |
| 70. Wonthaggi ..       | 14,285                             | 339                      | 604                    | 208         | 1,151  | 15,436                    | 48,458                             | 2,393                               | 50,851                    | (a)(b)            | 13,000          | 79,287                          |
| 71. Woomelang ..       | 4,166                              | 25                       | 72                     | 66          | 163    | 4,329                     | 8,336                              | 570                                 | 8,906                     | (a) (b)           | 580             | 13,815                          |
| 72. Woorinen ..        | 222                                | ..                       | 12                     | 24          | 36     | 258                       | 433                                | 101                                 | 534                       | (a)               | 85              | 877                             |
| 73. Wycheproof ..      | 7,248                              | 192                      | 177                    | 64          | 433    | 7,681                     | 6,277                              | 528                                 | 6,805                     | (a)               | 735             | 15,221                          |
| 74. Yaapeet ..         | 70                                 | 18                       | ..                     | 14          | 32     | 102                       | 179                                | 91                                  | 270                       | (a)               | 104             | 476                             |
| Totals ..              | 178,370                            | 3,558                    | 6,300                  | 3,684       | 13,542 | 191,912                   | 399,184                            | 49,558                              | 448,742                   |                   | 35,057          | 675,711                         |

# LOAN EXPENDITURE STATEMENT OF LOAN EXPENDITURE DURING THE YEAR ENDED 30TH JUNE, 1932.

| Works.                                                                        | Loans Application<br>Act No. 3882. | Loans Application<br>Act No. 3983. | Total.             |
|-------------------------------------------------------------------------------|------------------------------------|------------------------------------|--------------------|
|                                                                               | £ s. d.                            | £ s. d.                            | £ s. d.            |
| <i>Free Headworks.</i>                                                        |                                    |                                    |                    |
| 1. Kerang North-West Lakes .. .. .                                            | 8 9 6                              | 11 3 10                            | 14 13 4            |
| <i>River Murray Waters Acts—Works.</i>                                        |                                    |                                    |                    |
| 2. Storages, Weirs and Locks .. .. .                                          | 18,868 9 8                         | 77,568 14 8                        | 96,437 4 4         |
| <i>Reservoirs and Storages.</i>                                               |                                    |                                    |                    |
| 3. Campaspe and Loddon Rivers Storages .. .. .                                | 4,929 8 3                          | 14,968 10 7                        | 19,897 18 10       |
| 4. Goulburn Storages—                                                         |                                    |                                    |                    |
| Eildon Reservoir .. .. .                                                      | 11,210 6 7                         | 18,852 3 8                         | 30,062 10 3        |
| Waranga Reservoir .. .. .                                                     | 648 17 6                           | 892 11 2                           | 1,541 8 8          |
| 5. Maffra, Glenmaggie Reservoir .. .. .                                       | 345 17 10                          | 1,059 15 6                         | 1,405 13 4         |
| 6. Melton and Pykes Creek Reservoirs .. .. .                                  | ..                                 | 832 8 9                            | 832 8 9            |
| 7. Wimmera-Mallee Storages .. .. .                                            | 12 0 0                             | 133 14 9                           | 145 14 9           |
| <i>Waterworks Districts.</i>                                                  |                                    |                                    |                    |
| 8. Bellarine Peninsula .. .. .                                                | 9,606 6 1                          | 30,583 14 0                        | 40,190 0 1         |
| 9. Birchip, Sea Lake, Tyrrell, and Wycheproof .. .. .                         | 1,223 11 2                         | 14,539 7 10                        | 15,762 19 0        |
| 10. Carwarp .. .. .                                                           | 105 12 4                           | 21 17 11                           | 127 10 3           |
| 11. Coreena .. .. .                                                           | 52 15 1                            | 11 12 5                            | 64 7 6             |
| 12. Dering, Baring, and Kia .. .. .                                           | ..                                 | 278 18 2                           | 278 18 2           |
| 13. Hindmarsh .. .. .                                                         | 7 0 1                              | 111 7 3                            | 118 7 4            |
| 14. Karkaroc .. .. .                                                          | 893 4 5                            | 3,367 16 5                         | 4,261 0 10         |
| 15. Kerang North-West Lakes .. .. .                                           | 6 15 9                             | 18 19 4                            | 25 15 1            |
| 16. Long Lake .. .. .                                                         | 258 4 1                            | 1,959 8 0                          | 2,217 12 1         |
| 17. Millewa .. .. .                                                           | 2,509 15 10                        | 1,991 6 6                          | 4,501 2 4          |
| 18. Mornington Peninsula .. .. .                                              | 1,711 6 9                          | 8,483 0 0                          | 10,194 6 9         |
| 19. Tyntynder .. .. .                                                         | 279 5 4                            | 3,070 17 7                         | 3,350 2 11         |
| 20. Walpeup .. .. .                                                           | 899 6 4                            | 975 2 1                            | 1,874 8 5          |
| 21. Western Wimmera .. .. .                                                   | 376 18 2                           | 8,220 12 0                         | 8,597 10 2         |
| 22. Wimmera United .. .. .                                                    | 739 13 4                           | 4,716 12 1                         | 5,456 5 5          |
| 23. Wimmera Main Channels .. .. .                                             | 9 0 0                              | 1,549 14 8                         | 1,558 14 8         |
| 24. Yelta .. .. .                                                             | 2 18 0                             | 92 7 3                             | 95 5 3             |
| <i>Towns.</i>                                                                 |                                    |                                    |                    |
| 25. Bacchus Marsh .. .. .                                                     | 114 2 4                            | 899 16 8                           | 1,013 19 0         |
| 26. Berriwillock, Beulah, and Birchip .. .. .                                 | 3 11 10                            | 422 9 1                            | 426 0 11           |
| 27. Cohuna, Merbein, and Stanhope .. .. .                                     | 1 4 1                              | 173 11 9                           | 174 15 10          |
| 28. Coliban .. .. .                                                           | 1,022 4 8                          | 4,346 18 0                         | 5,369 2 8          |
| 29. Dimboola, Hopetoun, and Jeparit .. .. .                                   | ..                                 | 416 17 0                           | 416 17 0           |
| 30. Heyfield and Stratford .. .. .                                            | 116 14 8                           | 92 0 10                            | 208 15 6           |
| 31. Newstead .. .. .                                                          | ..                                 | 282 9 11                           | 282 9 11           |
| 32. Rupanyup, Speed, and Tempy .. .. .                                        | 0 4 5                              | 219 9 4                            | 219 13 9           |
| 33. Ultima, Woomelang, Wycheproof, and Yaapeet .. .. .                        | 7 13 1                             | 60 6 3                             | 67 19 4            |
| 34. Wonthaggi and North Wonthaggi .. .. .                                     | 76 14 4                            | 27 15 1                            | 104 9 5            |
| 35. Other towns .. .. .                                                       | 5 14 8                             | 24 3 3                             | 29 17 11           |
| <i>Irrigation and Water Supply Districts.</i>                                 |                                    |                                    |                    |
| 36. Bacchus Marsh and Werribee .. .. .                                        | 1,980 3 10                         | 2,757 5 9                          | 4,737 9 7          |
| 37. Boort .. .. .                                                             | 353 10 2                           | 519 15 5                           | 903 5 7            |
| 38. Calivil .. .. .                                                           | 411 2 11                           | 745 17 3                           | 1,157 0 2          |
| 39. Cohuna and Gannawarra .. .. .                                             | 1,178 0 8                          | 2,968 14 9                         | 4,146 15 5         |
| 40. Deakin and Dingee .. .. .                                                 | 62 13 6                            | 45 7 10                            | 108 1 4            |
| 41. Fish Point, Mystic Park, Third Lake, and Tresco .. .. .                   | 112 18 0                           | 44 8 0                             | 157 6 0            |
| 42. Katandra .. .. .                                                          | 713 1 11                           | 1,199 17 0                         | 1,913 1 11         |
| 43. Kerang .. .. .                                                            | 464 0 6                            | 596 9 2                            | 1,050 9 8          |
| 44. Koondrook .. .. .                                                         | 379 13 6                           | 452 7 1                            | 832 0 7            |
| 45. Leitchville .. .. .                                                       | 203 0 5                            | 521 13 5                           | 724 13 10          |
| 46. Maffra, Sale .. .. .                                                      | 4,447 7 11                         | 8,379 8 7                          | 12,826 16 6        |
| 47. Merbein .. .. .                                                           | 197 2 5                            | 307 17 11                          | 505 0 4            |
| 48. North Shepparton .. .. .                                                  | 1,644 15 9                         | 2,890 11 3                         | 4,535 7 0          |
| 49. Nyah .. .. .                                                              | 199 17 3                           | 246 5 6                            | 446 2 9            |
| 50. Red Cliffs .. .. .                                                        | 421 15 4                           | 936 10 1                           | 1,358 5 5          |
| 51. Rochester, Campaspe, and Echuca North .. .. .                             | 819 3 11                           | 2,013 13 9                         | 2,832 17 8         |
| 52. Rodney .. .. .                                                            | 839 15 2                           | 3,286 14 11                        | 4,126 10 1         |
| 53. Shepparton .. .. .                                                        | 1,341 4 11                         | 1,920 13 0                         | 3,261 17 11        |
| 54. South Shepparton .. .. .                                                  | 162 1 0                            | 70 9 1                             | 232 10 1           |
| 55. Stanhope .. .. .                                                          | 230 13 0                           | 505 18 8                           | 736 11 8           |
| 56. Swan Hill .. .. .                                                         | 98 0 8                             | 195 13 8                           | 293 14 4           |
| 57. Tongala .. .. .                                                           | 628 5 4                            | 1,031 5 3                          | 1,659 10 7         |
| 58. Tragowel Plains .. .. .                                                   | 157 8 5                            | 698 8 10                           | 855 17 3           |
| 59. Goulburn Main Channels .. .. .                                            | 3,729 15 7                         | 6,417 7 3                          | 10,147 2 10        |
| <i>Flood Protection and Drainage Districts.</i>                               |                                    |                                    |                    |
| 60. Gippsland Rivers and Other Districts .. .. .                              | 48 4 6                             | ..                                 | 48 4 6             |
| 61. Kooweerup, Cardinia, and Dandenong Creek .. .. .                          | 2,784 8 8                          | 2,937 8 9                          | 5,721 17 5         |
| <i>Miscellaneous.</i>                                                         |                                    |                                    |                    |
| 62. Investigations, Storages, and Works .. .. .                               | 1,807 3 8                          | 716 13 6                           | 2,523 17 2         |
| 63. Torrumbarry Districts—New Districts commanded by Torrumbarry Weir .. .. . | ..                                 | 43 19 11                           | 43 19 11           |
| <b>Totals .. .. .</b>                                                         | <b>81,453 18 1</b>                 | <b>243,758 9 2</b>                 | <b>325,212 7 3</b> |

## STATEMENT OF EXPENDITURE DURING THE YEAR ENDED 30TH JUNE, 1932.

### CONSTRUCTION OF TANKS AND FORMING ROADS IN THE MALLEE.

(This Expenditure was met by the Lands Department.)

|                                                                      |         |
|----------------------------------------------------------------------|---------|
| 1. Mallee Tanks (Public Tanks), Channels, and Clearing Roads .. .. . | £ s. d. |
| .. .. .                                                              | 920 7 9 |

## ESTIMATES.

Anticipated requirements to meet Disbursements by the Commission and Estimate of the moneys available from its Revenues to provide the same for the year ending 30th June, 1933, with Estimate of the total amount available from the Revenues of all Authorities to meet interest payable by the State for the year ending 30th June, 1933.

## ESTIMATED DISBURSEMENTS.

## A.

|                                                                                              |    |    |    |    |    |         |          |
|----------------------------------------------------------------------------------------------|----|----|----|----|----|---------|----------|
| Revenue Producing Works—                                                                     |    |    |    |    |    |         |          |
| Coliban District                                                                             | .. | .. | .. | .. | .. | £10,000 |          |
| Irrigation and Water Supply Districts                                                        | .. | .. | .. | .. | .. | 86,000  |          |
| Waterworks Districts                                                                         | .. | .. | .. | .. | .. | 70,350  |          |
| Drainage and Flood Protection Districts                                                      | .. | .. | .. | .. | .. | 900     |          |
| Diversions from Streams                                                                      | .. | .. | .. | .. | .. | 350     |          |
| General Expenditure and Salaries (proportion) over £250 to be apportioned to above Districts | .. | .. | .. | .. | .. | 19,000  |          |
|                                                                                              |    |    |    |    |    |         | £186,600 |

## B.

|                                                                                                                                   |    |    |    |    |    |        |         |
|-----------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|----|--------|---------|
| Non-Revenue Producing Works—                                                                                                      |    |    |    |    |    |        |         |
| General Services—                                                                                                                 |    |    |    |    |    |        |         |
| River Gaugings, Surveys, New Projects, Boring for Water, Land Settlement, General Expenditure and Salaries (proportion) over £250 | .. | .. | .. | .. | .. | £6,600 |         |
| Loan Works, Services on Account defrayed from Votes                                                                               | .. | .. | .. | .. | .. | 3,400  |         |
| Waterworks Trusts Administration                                                                                                  | .. | .. | .. | .. | .. | 1,600  |         |
|                                                                                                                                   |    |    |    |    |    |        | £11,600 |

## C.

|                                 |    |    |    |    |    |       |          |
|---------------------------------|----|----|----|----|----|-------|----------|
| Non-Revenue Producing Works—    |    |    |    |    |    |       |          |
| Free Headworks—                 |    |    |    |    |    |       |          |
| Broken River                    | .. | .. | .. | .. | .. | £250  |          |
| Goulburn-Waranga                | .. | .. | .. | .. | .. | 1,300 |          |
| Kow Swamp                       | .. | .. | .. | .. | .. | 1,300 |          |
| Lake Lonsdale and Lower Wimmera | .. | .. | .. | .. | .. | 400   |          |
| Loddon River                    | .. | .. | .. | .. | .. | 250   |          |
| North-West Lakes                | .. | .. | .. | .. | .. | 300   |          |
|                                 |    |    |    |    |    |       | 3,800    |
|                                 |    |    |    |    |    |       | £202,000 |

## ESTIMATED RECEIPTS.

|                                       |    |    |    |    |    |    |          |
|---------------------------------------|----|----|----|----|----|----|----------|
| Coliban District                      | .. | .. | .. | .. | .. | .. | £44,000  |
| Irrigation and Water Supply Districts | .. | .. | .. | .. | .. | .. | 288,000  |
| Waterworks Districts                  | .. | .. | .. | .. | .. | .. | 183,500  |
| Flood Protection Districts            | .. | .. | .. | .. | .. | .. | 8,000    |
| Miscellaneous                         | .. | .. | .. | .. | .. | .. | 20,000   |
|                                       |    |    |    |    |    |    | £543,500 |

|                                                                                    |    |    |    |    |    |          |          |
|------------------------------------------------------------------------------------|----|----|----|----|----|----------|----------|
| Estimated amount available from Revenue Producing Works to meet Interest           | .. | .. | .. | .. | .. | £356,900 |          |
| Less expenditure as per "B" and "C" above on Non-Revenue Producing Works           | .. | .. | .. | .. | .. | 15,400   |          |
|                                                                                    |    |    |    |    |    |          | £341,500 |
| To which add Estimated Revenues from other Authorities—                            |    |    |    |    |    |          |          |
| Waterworks Trusts                                                                  | .. | .. | .. | .. | .. | 61,000   |          |
| Local Bodies                                                                       | .. | .. | .. | .. | .. | 24,000   |          |
|                                                                                    |    |    |    |    |    |          | 85,000   |
| Total Estimated amount available from Revenues of all Authorities to meet Interest | .. | .. | .. | .. | .. |          | £426,500 |

## STATEMENT OF LOAN LIABILITY

STATEMENT of the amount provided by the State to meet Interest on its Loan Expenditure for Works of Water Supply, both State Works of Water Supply and Works vested in Authorities other than the Commission; and of the sums paid from the revenues of the Commission, and from the moneys received from such other Authorities, to provide such Interest for the year ended 30th June, 1932:—

| Loan Liability of State for Works of Water Supply at 30th June, 1932, exclusive of Melbourne Water Supply. |                                                   |                         |               |                                                                                      |                                  |                                                                              |                                            |           |                                                                                                |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------|---------------|--------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------|--------------------------------------------|-----------|------------------------------------------------------------------------------------------------|
|                                                                                                            | Total Advances, including Cost of Loan Flotation. | Deduct Redemption Paid. | Net Advances. | Interest payable by State on Net Advances.                                           |                                  |                                                                              | Total Interest of £1,220,869 debitable to— |           | Amount received from Revenues of all Authorities to meet Interest.                             |
|                                                                                                            |                                                   |                         |               | (A.) Amounts Written Off. (B.) Free Head-works (C.) Uncompleted or Unallotted Works. | Balance at Debit of Authorities. | (A.) Written Off. (B.) Free Head-works (C.) Uncompleted or Unallotted Works. | Commission and Other Authorities.          |           |                                                                                                |
| Completed Works.                                                                                           | £ 5,033,203                                       | £ 49,775                | £ 4,983,428   | £ 175,055                                                                            | £ 4,808,373                      | £ 248,945                                                                    | £ 8,745                                    | £ 240,200 | £314,482 (after providing £20,289 for non-revenue producing works, including Free Head-works). |
|                                                                                                            | 4,494,918                                         | 31,772                  | 4,463,146     | (A.) 575,152                                                                         | 3,887,994                        | 222,954                                                                      | (A.) 28,731                                | 194,223   |                                                                                                |
|                                                                                                            | 1,424,394                                         | 106                     | 1,424,288     | (C.) 903,712                                                                         | 520,576                          | 71,150                                                                       | (C.) 45,144                                | 26,006    |                                                                                                |
|                                                                                                            | 236,027                                           | ..                      | 236,027       | (C.) 50,998                                                                          | 185,029                          | 11,791                                                                       | (C.) 2,548                                 | 9,243     |                                                                                                |
| Uncompleted or Unallotted Works.                                                                           | 849,580                                           | ..                      | 849,580       | (C.) 136,902                                                                         | 712,678                          | 42,440                                                                       | (C.) 6,839                                 | 35,601    | £88,618                                                                                        |
|                                                                                                            | 401,749                                           | ..                      | 401,749       | (C.) 235,949                                                                         | 165,800                          | 20,070                                                                       | (C.) 11,787                                | 8,283     |                                                                                                |
|                                                                                                            | 2,515,775                                         | 1,000                   | 2,514,775     | (C.) 2,514,775                                                                       | ..                               | 125,624                                                                      | (C.) 125,624                               | ..        |                                                                                                |
|                                                                                                            | 1,237,458                                         | ..                      | 1,237,458     | (C.) 1,070,945                                                                       | 166,513                          | 61,816                                                                       | (C.) 53,498                                | 8,318     |                                                                                                |
| Other Authorities.                                                                                         | 516,570                                           | ..                      | 516,570       | (C.) 271,387                                                                         | 245,183                          | 25,805                                                                       | (C.) 13,557                                | 12,248    |                                                                                                |
|                                                                                                            | 783,322                                           | ..                      | 783,322       | (C.) 300,170                                                                         | 483,152                          | 39,130                                                                       | (C.) 14,995                                | 24,135    |                                                                                                |
|                                                                                                            | 354,323                                           | ..                      | 354,323       | (C.) 354,323                                                                         | ..                               | 17,700                                                                       | (C.) 17,700                                | ..        |                                                                                                |
|                                                                                                            | 108,312                                           | ..                      | 108,312       | (C.) 108,312                                                                         | ..                               | 5,412                                                                        | (C.) 5,412                                 | ..        |                                                                                                |
| Commission—                                                                                                | 2,151,377                                         | 355,795                 | 1,795,582     | (A.) 316,537                                                                         | 1,479,045                        | 89,697                                                                       | (A.) 15,812                                | 73,885    |                                                                                                |
|                                                                                                            | 859,668                                           | 144,326                 | 715,342       | (A.) 163,760                                                                         | 551,582                          | 35,734                                                                       | (A.) 8,180                                 | 27,554    |                                                                                                |
|                                                                                                            | 2,313,528                                         | ..                      | 2,313,528     | (C.) 2,313,528                                                                       | ..                               | 115,571                                                                      | (C.) 115,571                               | ..        |                                                                                                |
|                                                                                                            | 32,754                                            | 30                      | 32,724        | (A.) 32,724                                                                          | ..                               | 1,635                                                                        | (A.) 1,635                                 | ..        |                                                                                                |
| Uncompleted or Unallotted Works.                                                                           | 1,261,331                                         | 420                     | 1,260,911     | (B.) 1,260,911                                                                       | ..                               | 62,988                                                                       | (B.) 62,988                                | ..        |                                                                                                |
|                                                                                                            | 147,046                                           | ..                      | 147,046       | (B.) 147,046                                                                         | ..                               | 7,346                                                                        | (B.) 7,346                                 | ..        |                                                                                                |
|                                                                                                            | 301,488                                           | ..                      | 301,488       | (C.) 301,488                                                                         | ..                               | 15,061                                                                       | (C.) 15,061                                | ..        |                                                                                                |
|                                                                                                            | 25,022,823                                        | 583,224                 | 24,439,599    | 11,233,674                                                                           | 13,205,925                       | 1,220,869*                                                                   | 561,173                                    | 659,696   |                                                                                                |
| Totals                                                                                                     | ..                                                | ..                      | ..            | ..                                                                                   | ..                               | ..                                                                           | ..                                         | ..        | 403,100                                                                                        |

\* NOTE.—In addition the cost of exchange in remitting interest to London was £141,269.

£314,482 (after providing £20,289 for non-producing works, including Free Head-works).

£88,618

Dated at the Office of the State Rivers and Water Supply Commission, Treasury Gardens,  
Melbourne, the 24th day of October, 1932.

E. SHAW, Commissioner.

RICHD. HORSFIELD, Commissioner.

P. J. O'MALLEY, Secretary.