### VICTORIA.

# STATE RIVERS AND WATER SUPPLY COMMISSION.

# TWENTY-NINTH

# ANNUAL REPORT,

1933-34.

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

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Preparation (not given)								2	٤.	a.
Printing ( 500 copies)		••	••	••		••	 ••	 56	0	0

# STATE RIVERS AND WATER SUPPLY COMMISSION.

# ANNUAL REPORT, 1933-34.

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 1933-34, and Estimates for the ensuing year.

R. H. HORSFIELD, CHAIRMAN.

A. S. KENYON, COMMISSIONER.

W. TREVEAN, COMMISSIONER.

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.

2. Goulburn River Works:—Weir on the Goulburn River, about 9 miles above Murchison: channel therefrom, about 23 miles, to Waranga Reservoir; and that Reservoir; the Sheepwash and Washpen Creek; regulating weirs at the effluence from the Loddon of the Sheepwash and Washpen Creek; regulating weirs at the effluence from the Loddon of the Sheepwash and Washpen Creek; regulating weirs at the effluence from the Loddon of the Sheepwash and Washpen Creek; regulating weirs at the effluence from the Loddon of the Sheepwash and Washpen Creek; reduced from the Washpen Creek regulator to Reedy Lake, Middle Lake, Third Lake, Lake Charm, Receours Lake, Cullen's Lake, Changaro Lake, and Lake Turchewop, and to the Little Murray liver, with a Loddon of the Gunbower Creek; channel sheet of the Swamp Reservoir; and that Reservoir; channel along the northern side of the reservoir; and that Reservoir; channel along the northern side of the reservoir; and that Reservoir; channel along the northern side of the reservoir; and that Reservoir; channel side of the reservoir; and that Reservoir; channel Loddon River of the Gunbower Creek; channel thence to the Kow Swamp Reservoir; and that Reservoir to Lake Baker, to the Loddon River of Lo	DESCRIPT	TION OF WO	ORKS.			30th June, 1934. Exclusive of cost of Loan Flotation.
(but exclusive of the work of its enlargement)  (Rearny Kort-West Lakes Works — Weir on the Loddon River at its confluence with the Pyramid Creek; regulating weirs at the effluence from the Loddon of the Sheepwash and Washpen Creeks; channel from the Washpen Creek regulator to Reedy Lake, Middle Lake, Title Lake, Lake Charm, Racecourse Lake, Cullen's Lake Kangaroo Lake, and Lake Tutchewop, and to the Little Murray River, with water storage works at these lakes  (Kow Swamp Works — 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 along the northern side of the reservoir; and that Reservoir; channel along the northern side of the reservoir; and that Reservoir; channel along the northern side of the reservoir; and that Reservoir; channel along the northern side of the reservoir; and that Reservoir; about 23 miles, to the left bank of the Loddon River  Lake Londale Reservoir - Reservoir at Lake Londale, on the Little Wimmers, 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 Kooom; system of main distributary channels, about 57 miles in length.  Lower Wimmers Compensation Works:—Drung Drung Weir, on the Wimmers, near allotment 29, parish of Longersonog; Dimboola Weir, on the Wimmers, near allotment 29, parish of Longersonog; Dimboola Weir, on the Wimmers, near allotment 29, parish of Longersonog; Dimboola Weir, on the Wimmers, near allotment 29, parish of Longersonog; Dimboola Weir, on the Wimmers, near allotment 29, parish of Longersonog; Dimboola Weir, on the Wimmers, near Dimbools township: Antwerp Weir, on the W	to the Broken Creek; Gowangardie 2. Goulburn River Works:—Weir on the	£ 14,853				
4. Kow Swamp Works:—Intake from the Murray River with regulator, at the effluence of the Gunbower Creek; channel thence to the Kow Swamp Reservoir; channel along the northern side of the reservoir; channel along the northern side of the reservoir; channel from the outlet of the reservoir; about 23 miles, to the left bank of the Loddon River.  5. Lake Lonsdale ReservoirReservoir at Lake Lonsdale, on the Little Wimmera River, near Ledourt.  6. Loddon River Works:—Lanaecoorie Weir, on the Loddon Street River is 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 10s, parish of Kooem; system of main distributary channels, about 85 miles in length.  8. Lower Wimmera Compensation Works:—Drong Drung Weir, on the Wimmera, near Joinbools township; Antwerp Weir, on the Wimmera, near Joinbools township; Antwerp Weir, on the Wimmera, near Joinbools township; Antwerp Weir, on the Wimmera, near Joinbools Weir, on the Wimmera, near Joinbools township; Antwerp Weir, on the Wimmera, near John Marie Compensation Works:—Lower Works:—Lo	(but exclusive of the work of its en 3. Kerang North-West Lakes Works:— with the Pyramid Creek; regulating Sheepwash and Washpen Creeks; Reedy Lake, Middle Lake, Third Lake, Kangaroo Lake, and Lake T	confluence don of the gulator to c, Cullen's	739,552			
outlet of the reservoir, about 23\$m\$ illes, to the left bank of the Loddon River . Its Lake Lonsdale, on the Little Wimmera River, near Ledcourt 8. Loddon River voir at Lake Lonsdale, on the Little Wimmera River, near Ledcourt 9. Loddon River water storage works at 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 altorment 10a, parish of Kooem; system of main distributary channels, about 85 miles in length .  8. Lower Wimmera Compensation Works :—Drung Drung Weir, on the Wimmera, near altorment 29, parish of Longerenong; Dimboola Weir, on the Wimmera, near Jeparit township Total .  8. Lower Wimmera Compensation Works :—Drung Drung Weir, on the Wimmera, near altorment 29, parish of Longerenong; Dimboola Weir, on the Wimmera, near Jeparit township Total .  8. Lower Wimmera Compensation Works :—Drung Drung Weir, on the Wimmera, near altorment 29, parish of Longerenong; Dimboola Weir, on the Wimmera, near Jeparit township Total .  8. Lower Wimmera Compensation Works :—Drung Drung Weir, on the Wimmera, near Jeparit township Total .  8. Lower Wimmera Compensation Works :—Drung Drung Weir, on the Wimmera, near Jeparit township Total .  8. Lower Wimmera Compensation Works :—Drung Drung Weir, on the Wimmera, near Jeparit township Total .  8. Lower Wimmera Compensation Works :—Drung Drung Weir, on the Wimmera, near Jeparit township Total .  8. Lower Wimmera Compensation Works :—Drung Drung Weir, on the Wimmera, near Jeparit township Total .  8. Lower Wimmera Compensation Works :—Drung Drung Weir, on the Wimmera, near Jeparit township Total .  8. Costs Apportioned to Districts benefited .  9. Lower Wimmera, near Jeparit township Total .  8. Costs Apportioned and to be Apportioned to Districts benefited .  10. Lower Wimmera Compensation Works :—Drung Drung Weir, on the Wimmera, near Jeparit township Total .  8. Costs Apportioned and to be Apportioned to Districts benefite	<ol> <li>Kow Swamp Works:—Intake from the Gunbower Creek; channel</li> </ol>	thence to	the Kow Swamp	Reservoir	; and that	26,564
16. Joddon River Works :— Lanaccoorie Weir, on the Loddon ; Enrigewater Weir, on the Loddon Kinypanial Weir, on the Loddon   167.78	5. Lake Lonsdale Reservoir : Reservoir	niles, to th ir at Lake	e left bank of the Lonsdale, on th	Loddon I he Little	River Wimmera	187,944
7. Long Lake Pumping Works — Inlet to Lake Baker, from the Little Murray River; water storage works at Lake Baker and Long Lake, with channel connecting these lakes; pumping plant at Long Lake, with channel connecting these lakes; pumping plant at Long Lake, with channel connecting these lakes; pumping plant at Long Lake, with channel connecting these lakes; pumping plant at Long Lake, with channel connecting these lakes; pumping plant at Long Lake, with channel connecting these lakes; pumping plant at Long Lake, with channel connecting these lakes; pumping plant at Long Lake, with channel connecting these lakes; pumping plant at Long Lake, with channel connecting these lakes; pumping plant at Long Lake, with channel connecting these lakes; pumping plant at Long Lake, with channel connecting these lakes; pumping plant at Long Lake, with channel channel connecting these lakes; pumping plant at Long Lake, with channel channel connecting these lakes; pumping plant at Long Lake, with rising main thence about 7, with channel connecting these lakes; pumping plant at Long Lake, with rising main thence about 7, with channels of Kooem; system of main distributar, not be with missing main thence about 7, pumping plant at Long Lake, with rising main thence about 7, pumping plant at Long Lake, with rising main thence about 7, pumping plant at Long Lake, with rising main thence about 7, pumping plant at Long Lake, with rising main thence about 7, pumping channels and known pumping plant at Long Lake, with rising main thence allowers, pumping plant at Long Lake, with rising main thence allowers, pumping plant at Long Lake, with rising main thence allowers, pumping plant at Long Lake, with rising main thence allowers, on the Wimmera, near 27, 34    27,34   27,34   27,34   27,34   27,34   27,34   27,34   27,34   28,364   38,664   39,664   39,664   39,664   39,664   39,664   39,664   39,664   39,664   39,664   39,664   39,664   39,664   39,664   39,664   39,664   39,664   39,664   39,664   39,664   39,664   39,664   39,664	6. Loddon River Works :- Laanecoorie	Weir, on	the Loddon; Br	idgewater	Weir, on	49,054
Channels, about \$5 miles in length   27,34	<ol> <li>Long Lake Pumping Works:         —Inle         River; water storage works at         connecting these lakes; pumping</li> </ol>	et to Lak Lake Ba plant at	e Baker, from ker and Long I Long Lake, with	ake, with rising ma	channel in thence	101,109
Total   1,221,76	channels, about 85 miles in length 8. Lower Wimmera Compensation Work allotment 29, parish of Longerence Dimboola township; Antwerp We	s:—Drung ong; Dim oir, on the	Drung Weir, on boola Weir, on Wimmera, at Ant	the Wimn	nera, near nera, near	27,346
B.—MAIN SUPPLY WORKS.	-	nera, near	Deparit township			
Rodney		e Apportion	ned to Districts be		3. 1933–34.	
Coulburn Main Channels (Free Headworks excluded)—  1. East Goulburn Main   359,195   2. Waranga Reservoir to Campaspe   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,503   391,	Name of Work.	Debit at 30th June, 1934.	Rodney Tragowel Plains		£120,000 100,000	
Second		£	Tongala		58,000 57,000	
3. West of Campaspe		1	Boort		20,000	
A. Goulburn Main Channel Distributaries   10,636   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1			Dingee		15,000	
Dutaries   10,636   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,293   1,418,29		000,000				
Scoulburn Storages	butaries					1 //10 903
Bacchus Marsh and Werribee Schemes   2,478,811     2,478,81	5. Eildon Reservoir	1.869.932	••	••	•.	1,410,255
7. Ballan Tunnel       21.678         8. Pykes Creek Reservoir       142,113         9. Melton Reservoir       85,671         249,462       Capital allotted       £200,722       249,46         10. Bellarine Peninsula       446,447       Capital allotted       £184,150       446,44         Maffra-Sale Scheme—       663,646       E12. Main Channels and Distributary Works       580.049       Capital allotted       £205,900       1,243,69         Red Cliffs Scheme—       13. Main and Distributary Channels       780,379       Capital allotted       £481,799       780,37         Millewa District—       14. Main and Distributary Channels       518,605       Capital allotted       £245,465       518,60         Flood Protection Districts—       381,548       60,496       60,496       442,044       Capital allotted       £162,432       442,044		/				2,478,811
249,462   Capital allotted   £200,722   249,464     10. Bellarine Peninsula	7. Ballan Tunnel 8. Pykes Creek Reservoir	142,113				
Maffra-Sale Scheme	9. Melton Reservoir		Capital allotted		£200,722	249,462
11. Glenmaggie Reservoir		446,447	Capital allotted		£184,150	446,447
Red Cliffs Scheme—780,379Capital allotted5481,799780,379Millewa District—518,605Capital allotted518,60514. Main and Distributary Channels518,605Capital allotted518,605Flood Protection Districts—381,54815. Kooweerup and Cardinia381,54816. Goulburn Levees60,496442,044Capital allotted£162,432	11. Glenmaggie Reservoir	580.049				
13. Main and Distributary Channels       780,379       Capital allotted £481,799       780,379         Millewa District— <ul> <li>14. Main and Distributary Channels</li> <li>Flood Protection Districts—                 <ul> <li>15. Kooweerup and Cardinia</li> <li>16. Goulburn Levees</li></ul></li></ul>	Dad Cliffa Sahama	1,243,695	Capital allotted	••	£205,900	1,243,695
14. Main and Distributary Channels       518,605       Capital allotted £245,465       518,600         Flood Protection Districts—       381,548       381,548         16. Goulburn Levees 60,496       442,044       Capital allotted £162,432       442,044	13. Main and Distributary Channels	780,379	Capital allotted		. £481,799	780,379
15. Kooweerup and Cardinia 381,548 16. Goulburn Levees 60,496 442,044 Capital allotted £162,432 442,04	14. Main and Distributary Channels	. £245,465	518,605			
0.700 /	15. Kooweerup and Cardinia					
0.000 100		442,044	Capital allotted		£162,432	442,044
	/	Carried for	ward			8,799,501

### Works under Control of Commission—continued.

Capital Debit at 30th June, 1934, Exclusive of Cost of Loan

Brought forward

\$,799,501

### C.—IRRIGATION AND WATER SUPPLY DISTRICTS.

Distributary Works within Districts under the control of the Commission.

Na (Includi	me of ng Urb	District. an Divisio	ons.)	!	Total Capital Expenditure.	Capital Written Off by Acts 1625 and 1651.	Redemption Paid to Treasury.	Capital Debit at 30th June, 1934.
					ť	£	£	£
1. Bacchus Marsh					114,166	8,906	493	104,767
2. Boort				'	116,086	35,259	1,794	79,033
3. Calivil				:	109,725			109,725
4. Campaspe				:	65,253	52,685	305	12,263
5. Cohuna and Ga	annaw	arra			406,222	82,376	1.386	322,460
6. Deakin					95,829	34,748	2,144	58,937
7. Dingee					17,197		••	17,197
8. Dry Lake					1,704	686	299	719
9. Echuca North					23,895			23,895
10. Fish Point					15,504			15,504
1. Katandra					105,097			105,097
2. Kerang					153,429	35,338	2,334	115,757
13. Koondrook					221,169	30,872	1,562	188,735
4. Leitchville					44,226		1,002	44,226
l5. Merbein					228,005	::	133	227,872
l6. Mystic Park					17,243	5	100	17,243
7. North Sheppar	ton			• •	189,533		••	189,533
18. Nyah					111,195			111,195
9. Rochester		• •		••	332.135		• •	332,135
20. Rodney					725,207	149,949	8,967	566,291
21. Shepparton					191,112	140,040	784	190,328
22. South Sheppar	on				59,311		104	59.311
3. Stanhope	• •	• •		••	115,182		53	115,129
4. Swan Hill				• •	187,606	19,799	371	167,436
5. Third Lake		• • •		• •	24,987	1 1	3/1	24,987
26. Tongala		• •	• •	•••	154,260	•••	••	154,260
7. Tragowel Plain		• •	• •		380,636	101 504	÷ <del>.</del>	
28. Tresco		• •	• •	• •	91,280	124,534	527	255,575
29. Werribee	• •	• •		• • •			10.040	91,280
	• •	••	• • •	•••	124,064	••	10,242	113,822
				:	4,421,258	575,152	31,394	3,814,712

3,814,712

### D.—WATERWORKS DISTRICTS.

Distributary Works within Districts under the control of the Commission.

	Name of Di (Including Urban	istrict. n Distr	icts.)	Total Capital Expenditure.	Capital Written Off by Acts 1625 and 1651.	Redemption Paid to Treasury.	Capital Debit at 30th June, 1934.
				£	£	£	£
	Birchip			)		-	~
	Sea Lake			914,475	700	2,473	911,302
	Tyrrell			,-		2,210	
4.	Wycheproof						
5.	Carwarp			43,542	l . <b>.</b>		43,542
6.	Coliban			1,638,799		• • •	1,638,799
7.	Coreena			45,780			45,780
8.	Dandenong			39,728	5,128	1,506	33,094
9.	Dering			11,761		-	
10.	Eureka			4,091	· · · i		11,761
11.	Hindmarsh		••	27,758		• •	4,091
12.	Karkarooc		•• • • • • • • • • • • • • • • • • • • •	288,991		0.000	27,758
13.	Kerang North-West L			2,036	!	2,893	286,098
	Kia	.,	••	7,133		• • •	2,036
15.	Long Lake		••	133,430			7,133
	Mornington Peninsula		••	904,192	· · · .	1,081	132,349
	Newstead		••	11.840	;	• •	904,192
	Pyramid Hill	• •	••		•••		11,840
	Tyntynder	• •	• • • • • • • • • • • • • • • • • • • •	6,215		1,300	4,915
	Upper Western Wimm		• • • • • • • • • • • • • • • • • • • •	275,578	30.505	60	275,518
21	Upper Wimmera Unit	od	• • • • • • • • • • • • • • • • • • • •	112,196	26,567	3,450	82,179
9.9	Walpeup Central	eu		137,523	10,918	4,499	122,106
	Walpeup West	• •		25,294	••		25,294
	Werribee	• •		35,993	- •		35,993
	Western Wimmera	• •	•• ••	11,636			11,636
20.	Wimmera United	• •	• • • • • • • • • • • • • • • • • • • •	418,503	106,268	13,198	299,037
20.	Wanthan United	• •	• • • • • • • • • • • • • • • • • • • •	291,581	25,474	10,231	255,876
	Wonthaggi			7 <b>7,</b> 2 <b>4</b> 0		9,071	68,169
	Yelta	: -		6,138			6,138
29.	Wimmera Main Chann	iels	Amounts	113,554			113,554
30.	Wimmera Storages—		being		!		110,001
	Fyans Lake		> debited	43,685			43,685
	Taylor's Lake		to	204,966			204,966
	Pine Lake		Districts	178,588			178,588
	Lake Whitton		j benefited	10,336			10,336
			-				10,550
				6,022,582	175,055	49,762	5,797,765

5,797,765

Works	UNDER	CONTROL	OF	COMMISSION—continued.	
THE COURSE	UNDER	CONTROL	Or	-COMEMIASTON $-$ COMEMIATEMENT.	

Capital Debit at 30th June 1934. Exclusive of Cost of Loan

Brought forward

18,411,978

### E.—WATERWORKS TRUSTS DISTRICTS.

### DISTRICTS HELD IN TRUST BY THE COMMISSION.

Name of Trust.		Total Advances by State,	Capital Written Off by Acts 1625, 1651 and 1176.	Redemption Paid to Treasury.	Capital Debit at 30th June, 1934.
		٢	£	Ŀ	£
Carrum Waterworks Trust     Loddon United Waterworks Trust-	: .	38,800	7,732	5,511	25,557
Rural District	;	$20,\!186$ $5,\!158$	7,717	$7,951 \\ 221$	4,518 4,937
	_	64,144	15,449	13,683	35,012

Grand Total

.. £18,411,978

### 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 23,847 square miles, equal to about 15,262,000 acres.

The area under irrigated culture for all kinds of crops was 435,324 acres. This area, owing to heavy rainfall during the irrigation season, was 39,392 acres less than in 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	 101	123,200
Waterworks Trusts	 110	200,100
Local Governing Bodies	 16	78,400
Totals	 227	401,700

# 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 1933-34.

	• •							Area Irriga	ted (Acres)			
		Name	e of District.		Cercals.	Lucerne grown for Pasture and Hay.	Sorghum and other Annual Folder Crops.	Fastures, Native and Sown.	Vineyards, Orchards, and Gardens.	Fallow.	Misecllaneous,	Total.
		rom G	oulburn Stat	e Works.								
Katandr North Sl		• •	••		13.75	2,587 i 1,378	101	1,928 1,197	104 9	12 5		$\frac{4,823}{2,754}$
Sheppart		ou 			199	2,290	106		4.975	3	189	12,046
South Sh		on	••		. 27	1,370	133	769	. 81	33	10	2,423
Rodney		• •	••		405	22,967 8,292	$\frac{2.253}{407}$	17,940 3,062	7,663 339	$\frac{624}{15}$	538	
Stanhope Tongala		• •	• • •		1:40	10,034	401	$\frac{5.062}{6,238}$	1,252	66	34	18,673
Rocheste	er		••		. 1,515	17,722	1,023	$^{-}20,604$	1,848	217	625	43,554
Echuca I		• •	••		43	1.757	314			145	191 20	4,824
Dingee . Calivil .		••	• •		217	2,185	317		19	21 46	35	3,414 4,870
Tragowe					. 6,531	2,226	3,891	30,322	25	142	218	43,355
Deakin	• •	••	• •		3 000	1,070	72		2		8	1,680
Boort .		••	••			332	1,230			132		7,824
	Totals	• •	••		. 14,364	75,177	10,425	97,445	16,351	1,461	1,882	217,105
,,,	(a)		er Murray Si imbarry Wei									
Leitchvil Cohuna		••	••		1.005	1,669 2,912	579	4,007 24,007	21 77	14 258	38 1,284	6,310 $30,782$
Gannawa			••		2 210	1,172	1,453	16,354	34	915	774	22,912
Koondro	ok				3,138	1,438	1,730	10,366	792	142	72	17,678
Swan Hi		• •	••		199	5, <b>403</b>	973 212	5,879 1,443	2,993	461 60	30	19,126
Third La Mystic P		• •			60	236	202	857	6		32	2,265 1, <b>3</b> 95
Tresco .						70	30		897		-01	1,007
Fish Poir		• •			* 004	90	75	1,368			36	1,699
Kerang . Dry Lak		• •	••		3.2	540	1,876	14,879	21	135		20,5 <b>3</b> 5 214
Kerang 1	North-V		Lakes 5 (outside Dis		580	41 713	144 178	1,102 1,865	408 25		7 118	2,282 3,052
	Totals				15,381	14,395	7,548	82,270	5,277	1,985	2,401	129,257
	(b)	Dire	t from River	-	1.5							
Nyah .		• •	••			200 250	150		2,400		$\frac{464}{112}$	3,104 11,645
Red Cliffs Merbein					1	33	1.10		11,133 7,601		74	7,708
	Totals				10	483	150		21,134		650	22,457
		 m:			15,421		7,698	82,270				
		Lodo	on and Othe	ate Works). er <i>Northern</i>	10,401	14,878	7.038	82,270	26,411	1,985	3,051	151,714
Boort		State	Works.		900	194	558	1,767	19	61		3,499
Coliban .	:		::		136	550	396	2,121	4,874	429	457	8,963
Campasp		• •	••	• • • • • • • • • • • • • • • • • • • •	30	311		239				580
Western		era	••	••		75	242		1,102		35	1,454
	Totals colied fr	om S	••• outhern State	Works.	1,066	1,130	1.196	4,127	5,995	490	492	14,496
Bacchus .		••	••	••		1,380	164	1,709	194	48		3.495
Werribee		• •	••		359	1,405	165	4,176	325	581	1,130	1,019
Narre Wa Maffra		• •	• • • • • • • • • • • • • • • • • • • •		216 22	$\begin{bmatrix} & 3 \\ & 662 \end{bmatrix}$	400	444 4,341	219	$\begin{bmatrix} 137 \\ 222 \end{bmatrix}$	328	$\frac{1,019}{5,975}$
Sale .					84	1,092	534	2,760	::	72	515	5,057
	Totals				681	4,542	1,263	13,430	738	1,060	1,973	23,687
	Supplie		m other Wo			498	127		10,974		184	11,783
Private D	oiversion	ns—J	kerang (outsi	ide Districts)	111	23	48	357	••			539
Other Pri	vate Di	iversi	ons through	out the State	1,900	3,700	2,800	2,300	4,200	100	1,000	16,000
,	$\mathbf{Totals}$		••		2,011	4,221	2,975	2,657	15,174	100	1,184	28,322
(	Grand 7	<b>Fotals</b>	1933-34		33,543	99,948	23,557	199,929	64,669	5,096	8,582	435,324
	Grand '	Cotal	s, 1932-33		32.492	119,682	24,810	210,869	67,451	8,275	11,137	474.716
						17						

# (B) Comparative Statement of the Extent of Irrigation, 1929-30 to 1933-34.

		Area u	n <b>der Trrig</b> ation	(Acres).	
Source of Supply.	1929-30.	1930-31,	1931-32.	1932 33.	1933-34.
Goulburn State Works	322,039 173,642 12,486 25,831 32,579	242,435 156,169 12,067 22,662 29,765	212,284 136,254 11,120 28,094 30,663	243,378   158,223   11,621   31,042   30,452	217,105 151,714 14,496 23,687 28,322
Totals	566,577	463,098	418,415	474,716	435,324

# 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 rates were, for the first time, made for a half-year in the Urban Waterworks Districts of Barwon Heads and Ocean Grove, and Newstead.

The Avoca Water Trust was abolished by the Avoca Water Trust Act 1933 and the Quambatook Urban District placed under the jurisdiction and control of the Commission.

In 37 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, Karkarooc, Long Lake, Sea Lake, Tyntynder, Tyrrell, Upper Western Wimmera, Upper Wimmera United, 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 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 Bore District at £5 6s. 8d. per 640 acres.

In 24 Districts the Commission made and levied compulsory irrigation charges, while in five Flood Protection Districts and in three 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.

			1			
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 m during Year end 30th June, 1934	led	Period of	Rate.	Estimated Number of Persons dwelling in District.

### IRRIGATION AND WATER SUPPLY DISTRICTS.

			Valuation by						!		ĺ	
			Commission.	1	st.	2n	d.	3rd.				
			£	8.	d.	8.	d.	s. d.				
1.	BACCHUS MARSH		15,929	1	0				1st July,19	3 <b>3,</b> to <b>3</b> 0t	h June,1934	615
2.	Boort		14,687	$^{2}$	Ο,	1	0		,,	,,	,,	594
3.	CALIVIL	••	15,468	1	0				,,,	,,	,,	500
4.	Campaspe		8,211	<b>2</b>	U	1	U	0 6	,,	,,	,,	576
5.	Cohuna		19,917	<b>2</b>	0	1	0	0 6	,,	,,	,,	1,037
6.	DEAKIN	• •	46,907	1	8	0	10	0 5	,,	,,	,,	1,620
7.	Dingee	••	3,070	1	0				,,	,,	,,	200
8.	DRY LAKE	• •	250		$(N_0$	rat		ade)				14
9.	ECHUCA NORTH	• •	5,171	1	0	0	6		1st July,19	33, to 30t	h June,1934	568
10.	FISH POINT	• •	1,364	1	0				. ,,	,,	,,	1 <b>3</b> 3
11.	GANNAWARRA		17,759	<b>2</b>	O	1	0	0 6	,,	,,	,,	653
<b>12</b> .	Katandra		8,449	1	O				,,,	,,	,,	520
13.	KERANG	• •	16,041	$^2$	4	1	<b>2</b>	0 7	,,	,,	,,	1,160
14.	Koondrook		17,753	$^{2}$	0	1	0		,,	,,	,,	1,140
15.	LEITCHVILLE		7,718	2	0	1	0		,,	,,	,,	246
16.	Maffra	••	32,112	1	0	O	6		,,	,,	,,	1,273
17.	Merbein		31,044	1	0			• •	,,	,,	,,	3,000
18.	Mystic Park	٠.	3,197	1	0	.		• • •	,,	,,	,,	113
19.	NORTH SHEPPARTON		43,532	1	0	١.			١,,	,,	,,	1,250

### 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 Per 30th June, 1934.	riod of Rate.  Estimated Number of Persons dwelling in District.
The land of the la		A Service and community of advantage of the community of	

### IRRIGATION AND WATER SUPPLY DISTRICTS--continued.

		Valuation be	_		Divisions	•				
		Valuation by Commission		t.	2nd.	3rd.				
		£	8.	$\overline{d}$ .	s. d.	s, $d$ .	:		į	
20. N чан		6,816	1	()			lst July,19:	33, to $30$ t	h June,1934	1,000
21. Red Cliffs		23,624	1.	()			,,	,,	,,	2,750
22. Rochester	• •	59,819	1	()	0 - 6	0 - 3	,,	,,	,,	4,190
23. Rodney		$132,\!863$	1	$\mathbf{o}$	0 6	0 - 3	,,	,,	,,	5,395
24. Sale		16,238	1	0		• • •	,,,	,,	,,	972
25. Shepearton		34,712	]	()	• • •		,,	,,	,,	2,500
26. South Shepparton	٠.	14,791	1	()			. ,,	,,	,,	500
27. STANHOPE		- ,	1	0			,,	,,	,,	820
28. SWAN HILL		22,136	1	0			,,	"	,,	1,530
29. THURD LAKE	٠.	2,184	2	0		• •	,,	,,	,,	165
30. Tongala		$27,\!484$	1	0			,,	,,	,,	2,210
31. Tragowel Plains		, ,	1	0	; 0 6	10 3	,,	"	,,	1,730
32. Tresco	٠.	1,797		N	o rate m	ade				230
33 WERRIBEE	• •	18,879	1	0		٠	: 1st July, 19	33, to 30	th <b>June,1934</b>	1,205

### WATERWORKS DISTRICTS.

34. AXE CREEK	1,659	$ 2 \rangle 0$			1st July,195	33, to 30th	June,1934	260
35. Baring	2,139	5 0	2 6	1 3	. ,,	,,	,,	110
36. Вівснір	38,000	2 4	1 2	0 7	,,	,,	,,	2,685
37. CARWARP	8,769	3 10	1 11	$0.11\frac{1}{2}$	,,	,,	,,	730
38. CARWARP CENTRAL	1,100	5 0	2 6	~	,,	,,	"	200
39. Coreena	11,886	5 0	2 6	1 3	,,	,,	,,	300
40. DERING	2,361	6 0	3 0	1 6	,,	,,	,,	225
41. EUREKA	1,706	4 0	2 0	1 0	,,	,,	,,	120
42. HARCOURT	8,657	1 6			,,	,,	,,	600
43. HINDMARSH	8,584	3 6	1.9	0 101	,,	,,	,,	236
44. KARKAROOC	126,815	2 2	1 1	$0.6\frac{5}{2}$	,,	,,	,,	4,000
45. KERANG N.W. LAKES	7,597	0 6			,,	,,	,,	570
46. Kia	6,422	5 0	$^{2}$ 6	1 3	,,	,,	,,	240
47. LONG LAKE	67,418	2 10	1 5	$0.8\frac{1}{2}$	,,	,,	,,	2,300
48. MILLEWA	28,599	5 0	2 6	1 3	,,	**	,,	2,210
49. MILLEWA CENTRAL	13,382	7 6	3 9	1 101	,,	,,	,,	1,178
50. NARRE WARREN	2,744	1 0			,,	,,	,,	190
51. SEA LAKE	61,232	2 8	1 4	0 8	,,	,,	,,	2,443
52. TYNTYNDER	51,878	3 4	1 8	0 10	,,	,,	,,	3,200
53. TYRRELL	$96,\!422$	3 4	1 8	0 10	,,	,,	**	5,660
54. UPPER WEST'N WIMMERA	61,927	1 6	0 9	$0.4\frac{1}{2}$	,,	,,	,,	1,695
55. UPPER WIMMERA UNITED	100,148	1 6	0 9	$0  ext{ } 4\frac{1}{2}$	,,	,,	,,	2,750
56. WALPEUP CENTRAL	8,253	5 6	2 9	$14\frac{1}{2}$	,,	,,	,,	300
57. WALPEUP WEST	57,686	0 9	$0  ext{ } 4\frac{1}{2}$		,,	,,	,,	2,300
58. WERRIBEE	8,156	$\begin{vmatrix} 2 & 0 \end{vmatrix}$	·		,,	,,	,,	<b>14</b> 8
59. WESTERN WIMMERA	265,361	1 2	0 7	$0  3\frac{1}{2}$	,,	,,	,,	8,820
60. WIMMERA UNITED	302,087	1 2	0 7	$0 \ 3\frac{1}{2}$	,,	,,	,,	7,800
61. WYCHEPROOF	72,575	2 4	1 2	0 7	,,	,,	,,	2,970
62. YELTA	3,033	3 4		• • •	,,	,,	,,	400

### WATERWORKS TRUSTS.

63. Loddon Unifed	. 68,579	0 8 0 4 0 2	1st January, 1934, to 31st December, 1934	3,300
64. CARRUM	Municipal Valuation. £ 23,373	1st Division        3       8         2nd Division        1       10         3rd Division        1       0	23 23 23	1,500
65. MITIAMO	891	4th Division       0       10         5th Division       0       3          4       0	2) 2) 2)	190

# A .-- VALUATIONS, RATES, AND FLOOD PROTECTION CHARGES -continued.

Districts Supplied with Water for Domestic and Ordinary Use and for Watering Cattle or other Stock.		y	Annual Value of Lands and Tenements.	duri	in the £1 ng year e h June, 1	nde	1		Period of	Rate.	Estimate Number Person dwelling District
			URBAN	DIVISIO	ONS AN	1D	DIS	TRICTS.			,
			Municipal Valuation.								
66.	ANTWERP		<b>£</b> 228			s. 5	$\frac{d}{0}$	1st July,19	933, to 30t	th June,1934	78
	BACCHUS MARSH		15,250			Ī	6	, , , , ,	,,	,,,	1,760
00.	Barwon Heads an Ocean Grove	D	\$\int 9,555 \\ 9,940 \\ \}			} 1	8	•		st Dec.,1933 th June,1934	C 1 1 1 5
	BERRIWILLOCK		1,361			3	6			th June,1934	160
	Berwick Beulan	• •	5,786 2,900	٠.	• •	2 3	1 0	,,	"	,,	900 500
2.	Birchip	• •	5,962		· ·	1	8	· ,,	"	,,	993
	BITTERN Brim	• •	656			3	1	,,	,,	,,	90
	Bunyip	• •	$\frac{1,010}{2,895}$			$\frac{4}{2}$	$\frac{6}{4}$	,,	,,	,,	180 420
	CARRUM		74,474			1	5	,,	,,	,,	6,355
	Carwarp Chillingollah	• •	$\begin{array}{c} 207 \\ 429 \end{array}$		• •	5 5	0	,,	,,	,,	$\frac{45}{120}$
9.	Chinkapook		530	· · ·		6	0	,,	,,	"	125
	COHUNA	••	8,277			2	0	,,	,,	,,	900
	Corop Cranbourne	• •	$\frac{211}{3,220}$			$\frac{2}{2}$	() ()	,,	,,	,,	$85 \\ 250$
33.	Crib Point		3,085			3	Ī	,,	"	"	530
	Culgoa Dandenong	• •	1,288			3	$\frac{6}{3}$	,,	,,	,,	$\frac{157}{4,500}$
	DIMBOOLA	• •	59,291 1 <b>3,</b> 654			 	Ü	,,	,,	,,	1,670
	DINGEE	!	478			4	()	,,	,,	,,	90
	Dooen Frankston		$\begin{array}{c} 169 \\ 53,442 \end{array}$	· · ·		2 1	$\frac{0}{4}$	,,	**	,,	30 5 <b>,</b> 330
0.	Garfield		2,649			$\dot{2}$	į	,,	,,	21 , 21	300
	Hastings Heyfield	••	1,935			3	()	,,	,,	,,	460
	HEYFIELD Hicksborough	:: }	4,437 4 <b>6</b> 5	i		$\frac{2}{3}$	6 9	,,	,,	,,	537 100
4.	HOPETOUN		1,959			3	()	,,	,,	"	700
	JEPARIT Jung Jung	••	7,548 $897$		• •	2	$\frac{2}{0}$	,,	,,	••	871 171
7.	Koondrook		3,670			2	6	,,	"	11 1	485
8.	LAKE BOGA	;	2,179			3	Ó	,,	**	٠,	380
	Lalbert Lascelles		980 676			5 5	() ()	,,	,,	11	1 <b>5</b> 5 1 <b>3</b> 0
1.	LEITCHVILLE	:	1,991			3	2	; ,,	,,	"	201
	Lockington	• • •	1,878	• • •		3	3	,,	,,	,,	$\frac{240}{270}$
	MANANGATANG MARNOO	· ·	1,994 1,716			3 3	6 6	. ,,	,,	,,	250 250
)5.	MARONG	•••	898			3	0	1 ,,	,,	"	300
	MERBEIN MERINGUR	!	8,870 357			$\frac{2}{7}$	9	1	,,	,,	900 J <i>0</i> 5
	MINYIP		6,589	· · ·		$\frac{1}{2}$	9	,,	,,	"	750
	MORNINGTON MOYER MARKET	• •	35,337			1	5 1	,,	,,	,,	2,260 $203$
	MOUNT MARTHA MURRABIT		$\frac{5,867}{275}$	:		$\frac{2}{6}$	0	"	,,	"	<b>3</b> 5
2.	NANDALY		332	• • •		6	0	,,	,,	,,	114
	NATIMUK NEWSTEAD	:::	$\frac{3,237}{2,676}$			]	6 6	lst Jan., 19	); 934, to 30t	h June,1934	585 400
l5.	NORTH WONTHAGGI		3,874			2	0			h June,1934	1,000
	NULLAWIL NYAH	• •	789 eos	• •		5 3	0 6	,,	,,	,,	115 170
	NYAH NYAH WEST	• •	$\frac{692}{3,717}$			2 2	9	,,	,,	,,	$\frac{170}{340}$
9.	OUYEN		10,606			2	9	,,	;;	,,	1,050
	PAKENHAM PATCHEWOLLOCK		4,988 387		• •	$\frac{2}{6}$	$\frac{1}{0}$	,,	,,	,,	700 156
22.	Piangil	• •	1,395			3	6	;;	,,	"	260
	PYRAMID HILL		3,451	• •		3	0	,,	,,	,, h June, 1934	500 379
	QUAMBATOOK . QUEENSCLIFF AN	 ID	3,232	• •	• •	1	5	1800an., 11.	, to 30t	1904 num	379
	POINT LONSDALE		22,504			2	6	1stJuly, 19	933, to 30t	h June <b>, 193</b> 4	3,100
	RAINBOW RED CLIFFS	• •	7,936 $11,281$	• •	• •	$\frac{2}{2}$	$\frac{2}{3}$	,,	,,	• •	9 <b>8</b> 9 850
	RUPANYUP	• •	5,9 <b>2</b> 9	• •		2	9	,,	"	,,	650
	SEA LAKE		6,866 1,889			$\frac{2}{2}$	0	,,	,,	,,	620 250

A .- VALUATIONS, RATES, AND FLOOD PROTECTION CHARGES-continued.

Districts Supplied with W for Demestic and Ordina Use and for Watering Co or other Stock.	ater ry attle	nnual Talue Lands and ements	Rate in during y 30th Ji	year er	aded	e	Pe	vriod of F	tate.	Estimated Number of Persons dwelling in District.
•	- I Ur	BAN DIV	TSIONS AN	n Dis	TRIC	гs	continued		I	
		unicipal luation. £			8,	d.			:	
131. South Franksto:	s	0,627					lst July,19	33, to 30t	h June,1934	700
32. SPEED		283				()	,,	,,	,,	90
133. Springvale		1,558	• •	• •	1	6	21	**	٠,	1,820
35. Tempy		$\frac{1,052}{267}$			-	() ()	"	"	••	290 110
36. ULTIMA		2,566				()	"	,,	"	400
137. WAIT: HIE		345			.5	U	,.	,,	,,	120
38. WATCHEM		1,982			-	0	,,	,,	,,	250
39. WERRIMULL 40. WONTHAGGI		$785 \\ 32,639$	٠.	• •	7 1	() ()	,,	,,	,,	154
41. WOOMELANG	• ! •	1,813			3	6 .	,,	,,	,,	8,000 <b>425</b>
142. WOORINEN		377				0	,,	,,	,,	65
143. WYCHEPROOF		7,475			2	0	,,	,,	,,	817
144. YAAPEET	• • •	241		· •	9	0	,,	,,	,,	106
			COLIBA	N SY						
45. COLEBAN	. 36	£ 9,620	On Vain	ations	. 8. (		let Inla	1033	to 204h	e0 000
49. COLEAN	36	9,620	On Vature up to £30 (Minimum £30	300 a 20s.)	[	6	June, 1		to 30th	60,000
			to £700 From £70. Vacant la:	1 on	l	3 0 6				
		FLOOD	PROTEC	CTION	. DI	STR	ICTS.			
		ation by								
	. 0/0/1	C.			S. 1	l.				
46. Echuca (High-st.	)	1,466			1	0	1st July	, 1933,	to 30th	80
145 G		Actes.	1 / D': /		,	()	June, 1	934		
147. Cardinia	3	6,206 .	1st Div. ( 2nd Div. (			(† {j	٠,	,,	,,	820
		!	3rd Div. (							
48. Lower Kooweer	ur 5	4,834	1st Div. (			0	11	••	,,	2,400
	!		2nd Div. (	p. ac.)	) 1	0				.,
146 P			3rd Div. (	p. ac.)	0	6				
49. KANYAPELLA	1	4,494	1st Div. (2nd Div. (			$\frac{7}{3!}$	11	,,	**	50
50. Loch Garry	1	0,886 .	Per acre			$\frac{6}{6}$		,,	.,	200
	R	COMI	NILSORV							
		OOM	ODDON	1884	CATI	ON	CHARCE	27		
/	!		. Water Ri	/ / / / /			CHARGE	S.	,	
Irrigation and Water Supply District.	Area of District in Acres.	Area a present trrigabl in Acres	e (includi Extra Rig in Acre-f	ghts med ing zhfs) cet.	Comp Chan Acre-i Water	ulsory se per oot o Righ	f .	Per	riod of Charge.	
Supply District.  1. Bacones Marsh	District in Acres.	present Trigable in Acres	Apportio (includi Extra Rig in Acre-f	ghts oned ing shifts) leet.	Comp Char Acre-i Water 22s.	nlsory to per oot o Right	Ist Oc	Per etober, 19	33, to 30th	April, 1934
1. Bacones Marsh 2. Cohuna 3. Dingee	District in Acres.  6,684 36,539 8,576	7,355 22,82	Apportio (includi Extra Rig in Acre-f 9   3,36 5   22,93 4   4,49	ghts oned ing zhfs) icet. 59	Comp Char Acre-l Water 22s.	nlsory to per toot o Right	Ist Oc	Petober, 19		April, 1934 h April, 190
Supply District.  1. Bacones Marsh 2. Cohuna	District in Acres.  6,684 36,539	present Irrigable in Acres 3,359 22,82	Apportio (includi Extra Riz in Acre-f 22,93 4,44 5, 5,3	ghts med ing whis) leet.	Comp Char Acre-l Water 22s.	nlsory te per foot o Right 6d.	Ist October 1st Se	Petober, 19	33, to 30th	h April, 19
Supply District.  1. Bacones Marsh 2. Cohuna 3. Dingee 4. Echuca North 5. Fish Point 6. Gannawarra	6,684 36,539 8,576 13,793 6,379 53,496	3,359 22,82 4,49 5,24 3,83 19,610	Apportio (includi Extra Ric in Acre-f	ghts   oned   ing   zhfs)	Comp Chara Acre-1 Water 22s. 6 7	olsory to per oot o Right 6d.	Ist October 1st Se	Petober, 19	33, to 30th 1933, to 30t	h April, 19:
1. Bacones Marsh 2. Cohuna 3. Dingre 4. Echuca North 5. Fish Point	6,684 36,539 8,576 13,793 6,379	present frrigabli in Acres 3,359 22,82 4,49 5,24 3,83 19,614 18,800 12,07	Apportion (including a second and a second a sec	ghts	Comp Char Acre-i Water 22s. 6 7 78. 8	olsory to per oot o Right 6d. 8. 8. 6d. 8.	lst Oc lst Se	etober, 19 ptember,	33, to 30th 1933, to 30th,,,,,,,	h April, 19:
1. Baconcs Marsh 2. Cohuna 3. Dingee 4. Echuca North 5. Fish Point 6. Gannawarra 7. Koondrook 8. Letechville 9. Maffra	District in Acres.  6,684 36,539 8,576 13,793 6,379 53,496 62,165 13,820 25,062	present frrigablin Acres 3,359 22,82 4,49 5,24 3,83 19,610 18,800 12,07 11,330	Apportion (1) (1) (1) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	ghts   med   mg   mg   mg   mg   mg   mg   mg   m	Comp Chart Acre-1 Water 22s, 6 77s, 8 6, 6,	fight 6d.	Ist October 1st Se	etober, 19 ptember,	33, to 30th 1933, to 30th,,,,,,,	h April, 19:
Supply District.  1. Bacores Marsh 2. Cohuna 3. Dingee 4. Echuca North 5. Fish Point 6. Gannawarra 7. Koondrook 8. Leitchville 9. Maffra 0. Merbein	District in Acres.  6,684 36,539 8,576 13,793 6,379 53,496 62,165 13,820 25,062 8,496	7,702	Apportion including the including Extra Riz In Acre-f  9   3,33   22,93   4,44   5,33   1   1,88   6   19,60   2   18,80   4,22   15,22   5   19,22   5   19,22   5   19,22   5   19,22   5   19,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22   10,22	ghts   med   mg   med   mg   mg   mg   mg   mg   mg   mg   m	Computation Computation Computation Charter Acres Water 22s. 6 77s. 8 6 6 75 10 24 in. 60s.	6d. s.	lst Oc 1st Se , ,	etober, 19 ptember,	33, to 30th 1933, to 30th,,,,,,,	h April, 195
Supply District.  1. Bacord's Marsh 2. Cohuna 3. Dingee 4. Echuca North 5. Fish Point 6. Gannawarra 7. Koondrook 8. Leitchville 9. Maffpa 0. Merbein 1. Mystic Park	District in Acres.  6,684 36,539 8,576 13,793 6,379 53,496 62,165 13,820 25,062	present frrigablin Acres 3,359 22,82 4,49 5,24 3,83 19,610 18,800 12,07 11,330	Apportion (including in Acre-fine Ac	ghts med ing 22hts) 59 39 14 84 90 02 16 16 95 11	Comp Chats Acre-1 Water 22s. 6 77s. 8 6 6 6 75 10 20 20 6 6 20 20 6 20 20 20 6 20 20 20 20 20 20 20 20 20 20 20 20 20	of the control of the	Ist Oc 1st Se , , , , ist Au	Per ptober, 19 ptember, , , , , , , , , , , , , , , , , , ,	33, to 30th 1933, to 30th,,,,,,,	h April, 19:
Supply District.  1. Bacches Marsh 2. Cohuna 3. Dingee 4. Echuca North 5. Fish Point 6. Gannawarra 7. Koondrook 8. Leitchville 9. Maffra 0. Merbein 1. Mystic Park 2. Nyah	District in Acres.  6,684 36,539 8,576 13,793 6,379 53,496 62,165 13,820 25,062 8,496	present firrigable in Acres 3,355 22,82 4,49 5,24 3,83 19,610 18,800 12,07 11,33 7,700 9,02	Apportion included included included included Extra Ris In Acre-f 22,99 4 4,44 5,33 1 1,88 6 19,69 18,88 4,22 15,29 19,29 4 3,00 7,7	ghts med ing spirits of the spirits	Comp Chart Acre-1 Water 22s. 6778. 866 66 77 10 21 in. 60s. 66 26 in. 50s. 28	ulsoryge per a 6d. S. s. 66d. S. per a 6s.	Ist Octoor Ist See Ist Au	Per ptober, 19 ptember, , , , , , , , , , , , , , , , , , ,	33, to 30th 1933, to 30th,,,,,,,	h April, 19:
Supply District.  1. Bacort's Marsh 2. Cohuna 3. Dingee 4. Echuca North 5. Fish Point 6. Gannawarra 7. Koondrook 8. Leitchville 9. Maffra 0. Merbein 1. Mystic Park 2. Nyah 3. Red Cliffs 4. Rochester	District in Acres.  6,684 36,539 8,576 13,793 63,79 53,496 62,165 13,820 25,062 8,496 18,764 3,739 30,881 172,226	present frrigablin Acres 3,355 22,82 4,49 5,24 3,83 19,610 18,80 12,07 11,33 7,700 9,02 3,100 11,07:	Apportion (including including including in Acre-fine Ac	ghts med ing 22hts)   59   39   4   14   84   90   02   16   95   71   Mi   566   H   M6   80   M5   53   M5   53   M6   M6   53   M6   M6   M6   M6   M6   M6   M6   M	Comp Chart C	ulsoryge per a 6d. S. s. 66d. S. per a 6s.	Ist Oc lst Se , , , , , , , , , , , , , , , , , ,	etober, 19 ptember, , , , , , , , , , , , , , , , , , ,	33, to 30th 1933, to 30th,,,,,,,	h April, 193 pril, 1934 h April, 1934 yil, 1934
Supply District.  1. Bacorus Marsh 2. Cohuna 3. Dingee 4. Echuca North 5. Fish Point 6. Gannawarra 7. Koondrook 8. Leitchville 9. Maffra 10. Merbein 11. Mystic Park 2. Nyah 13. Red Cliffs 14. Rochester 15. Rodney	District in Acres.  6,684 36,539 8,576 13,793 6,379 53,496 62,165 13,820 25,062 8,496 18,764 3,739 30,881 172,226 267,803	present frrizablin Acres 3,355 22,82: 4,49 5,24: 3,83 19,610 18,80: 12,07 11,330 7,700 9,02: 3,100 11,07: 54,900 192,00:	Apportion	ghts med ing 22hts)   59   39   14   14   84   990   902   16   11   M6   80   M6   53   16   16   16   16   16   16   16   1	Comp Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie Chartie C	olsoryte per ol Right 6d. 8s. 8s. 8s. 8s. 8s. 8s. 8s. 8s. 8s. 8s	Ist Oc lst Se , , , , , , , , , , , , , , , , , ,	etober, 19 ptember, , , , , , , , , , , , , , , , , , ,	33, to 30th 1933, to 30th """ """ """ """ """ """ """ """ """ "	h April, 193 pril, 1934 h April, 1934 yil, 1934
Supply District.  1. Bacores Marsh 2. Cohuna 3. Dingee 4. Echuca North 5. Fish Point 6. Gannawarra 7. Koondrook 8. Leitchville 9. Maffra 0. Merbein 1. Mystic Park 2. Nyah 3. Red Cliffs 4. Rochester 5. Rodney 6. Sale 6. Sale	District in Acres.  6,684 36,539 8,576 13,793 63,79 53,496 62,165 13,820 25,062 8,496 18,764 3,739 30,881 172,226	7,700 11,070 11,070 12,070 11,331 7,700 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070 11,070	Apportion including the including Extra Riz In Acre-f  9   3,33   22,93   4,44   5,33   1   1,88   19,63   18,88   4,22   19,22   18,24   19,22   18,24   19,22   18,24   19,22   18,24   19,22   18,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,24   19,2	ghts med ing states of the sta	Comp Chartie Water 228,6 6 7 7 78,. 8 6 6 6 6 7 10 20 3 10 10 10 10 10 10 10 10 10 10 10 10 10	ulsoryte per according to the control of the contro	Ist Oc lst Se , , , , , , , , , , , , , , , , , ,	etober, 19 ptember, , , , , , , , , , , , , , , , , , ,	33, to 30th 1933, to 30th,,,,, 3, to 30th Ap 1933, to 30th Ap,, 1933, to 30th Ap,,,,,,,	h April, 1934 h April, 1934 h April, 1934 h April, 1934
Supply District.  1. Bacord's Marsh 2. Cohuna 3. Dingee 4. Echuca North 5. Fish Point 6. Gannawarra 7. Koondrook 8. Leitchville 9. Maffea 10. Merbein 11. Mystic Park 12. Nyah 13. Red Cliffs 14. Rochester 15. Rodney 16. Sale 17. Sheffarton 18. South Shepparton	District in Acres.  6,684 36,539 8,576 13,793 63,79 53,496 62,165 13,820 25,062 8,496 18,764 3,739 30,881 172,226 267,803 16,880 24,588 33,752	present frigablin Acres  3,355 22,82 4,49 5,24 3,83 19,610 18,80 12,07 11,33 7,700 9,02 3,100 11,07: 54,900 8,833; 21,70 18,356	Apportion (including including in Acre-fi	ghts med ing 22hts) (cet.   559   339   94   14   84   90   66   16   16   16   16   16   16   1	Comp Chart C	ulsoryte per of the first of th	Ist Octoor Ist Se Ist Au ore Ist Au ore Ist Au ore Ist Au ore Ist Se I	etober, 19 ptember, , , , , , , , , , , , , , , , , , ,	33, to 30th 1933, to 30th,,,,, 3, to 30th Ap 1933, to 30th Ap,,,,,,,	h April, 1934 h April, 1934 h April, 1934 h April, 1934
Supply District.  1. Bacorus Marsh 2. Cohuna 3. Dingee 4. Echuca North 5. Fish Point 6. Gannawarra 7. Koondrook 8. Leitchville 9. Maffra 10. Merbein 11. Mystic Park 12. Nyah 13. Red Clifts 14. Rochester 15. Rodney 16. Sale 17. Shepparton 18. South Shepparton 19. Stanhope 10. Swan Hill	District in Acres.  6,684 36,539 8,576 13,793 6,379 53,496 62,165 13,820 25,062 8,496 18,764 3,739 30,881 172,226 267,803 16,880 24,588 33,752 25,988 36,431	present frrizablin Acres 3,355 22,82: 4,49 5,24: 3,83 19,610 18,80: 12,07 11,330 7,700 9,02: 3,100 11,07: 54,900 192,00: 8,83: 21,70. 18,356 18,700 22,05	Apportion	ghts med ing state of the state	Comp Chart C	ulsoryte per a fedd. S.	Ist October 1st Au lst Se lst Au cre lst Au lst Se lst Au lst Au lst Se lst Au lst Au lst Se lst Au	etober, 19 ptember, , , , , , , , , , , , , , , , , , ,	33, to 30th 1933, to 30th 30th 30th 30th Ap 1933, to 30th Ap 1933, to 30th Ap 1933, to 30th 30th 30th 30th 30th 30th 30th 30th	h April, 193  pril, 1934  h April, 1934  h April, 1934
Supply District.  1. Bacores Marsh 2. Cohuna 3. Dingee 4. Echuca North 5. Fish Point 6. Gannawarra 7. Koondrook 8. Leitchville 9. Maffea 10. Merbein 11. Mystic Park 12. Nyah 13. Red Cliffs 14. Rochester 15. Rodney 16. Sale 17. Shepparton 18. South Shepparton 19. Stanhope 20. Swan Hill 21. Third Lake	District in Acres.  6,684 36,539 8,576 13,793 6,379 53,496 62,165 13,820 25,062 8,496 18,764 3,739 30,881 172,226 267,803 16,880 24,588 33,752 25,988 36,431 11,488	present frrizablin Acres 3,355 22,822 4,49 5,24 3,83 19,614 18,802 2,07 11,334 7,708 11,073 54,908 192,000 8,833 21,70 18,356 18,706 22,05 4,05	Apportion in Acre-f  Apportion in Apportunity in Acre-f  Ap	ghts med ing special s	Comp Charter C	ulsoryge per coot of Right  6d. S.	Ist October 1st Au lst Se lst Au cre lst Au lst Se lst Au lst Au lst Se lst Au lst Au lst Se lst Au	etober, 19 ptember, , , , , , , , , , , , , , , , , , ,	33, to 30th 1933, to 30th,,,,,,,	h April, 193  pril, 1934  h April, 193  in April, 193  in April, 193
Supply District.  1. Bacoros Marsii 2. Cohuna 3. Dingee 4. Echuca North 5. Fish Point 6. Gannawarra 7. Koondrook 8. Lettchville 9. Maffpa 10. Merbein 11. Mystic Park 12. Nyah 13. Red Cliffs 14. Rochester 15. Rodney	District in Acres.  6,684 36,539 8,576 13,793 6,379 53,496 62,165 13,820 25,062 8,496 18,764 3,739 30,881 172,226 267,803 16,880 24,588 33,752 25,988 36,431	present frrizablin Acres 3,355 22,82: 4,49 5,24: 3,83 19,610 18,80: 12,07 11,330 7,700 9,02: 3,100 11,07: 54,900 192,00: 8,83: 21,70. 18,356 18,700 22,05	Apportion (including in Acre-file Extra Riz I	ghts med ing sphs should be should b	Compp Chartier 22ss. 66 77 7s. 88 66 67 7s. 100 200 200 200 200 200 200 66 66 66 66 66 66 66 66 66 66 66 66 6	nlsory to per a control of the contr	Ist October 1st Au lst Se lst Au cre lst Au lst Se lst Au lst Au lst Se lst Au lst Au lst Se lst Au	etober, 19 ptember, , , , , , , , , , , , , , , , , , ,	33, to 30th 1933, to 30th 30th 30th 30th Ap 1933, to 30th Ap 1933, to 30th Ap 1933, to 30th 30th 30th 30th 30th 30th 30th 30th	h April, 1934 h April, 1934 h April, 1934 h April, 1934

# CONTRACTS.

### STATEMENT OF CONTRACTS ENTERED INTO DURING THE YEAR ENDED 30TH JUNE, 1934.

No.	Name of Contractor.		Work or Supply.	Amount (Loan and Vote)
				£ s. d.
2801	Australian Cement Ltd		2,500 tons Cement	11,000 0 0
2802	Hume Pipe Co. Ltd		Concrete Pipes, Bellarine Peninsula	9,754 8 4
2803	Mephan Ferguson Pty. Ltd		Steel Pipes, Bellarine Peninsula	2,221 I 8
2804	Arthur Dunn		Bores, Wimmera Mallee	282 4 6
2805	W. Russell		Firewood, Millewa	570 2 1
2806	J. Smith	• •	Firewood, Millewa	100 0 0
2807	W. F. Decker	!	Firewood, Millewa	229 3 4
2808	F. D. Le Poidevin		Firewood, Millewa	464 15 0
2809	C. H. Hamence	• •	Firewood, Millewa	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
2810	J. J. Russell	'	Firewood, Millewa	mo,
2811	E. E. McMillan	• • •	Firewood, Millewa	$241 13 4 \\ 241 13 4$
$\frac{2812}{2813}$	B. Alderson	• •	Firewood, Millewa	535 12 6
2813	P. J. McPhee	• • •	Firewood, Millewa	544 18 4
$\frac{2814}{2815}$	H. Russell	••	Firewood, Millewa	13,200 0 0
$\frac{2815}{2816}$	Australian Cement Ltd	• •	73' 7 75'11	916 13 4
$\frac{2816}{2817}$	M. Dorman	• •	72' 1 76'71	$356 \ 5 \ 0$
2818	C. S. Foster	• • •	C / T' D LOUM	1,527 18 6
2819	A TT		2 日	5.092 10 0
2820	T II and in and Car TAI		The state of the s	1,657 16 0
2821	C C W- II-	• •	D 1 1 0 00 1 1 0	1,087 4 6
2822	T N7-44-11	• • •	75 13 75 1	695 7 3
2823	35 1 7	• •		1.198 2 10
2824	TT TO TO GO (A CATAL	•••	Steel Pipes, Bellarine Peninsula Concrete Pipes, Red Cliffs	773 6 0
2825	The state of the s	• •	Dil 12 Dil Manada D 1	350 11 0
2826	D 1. T / J	• •	Concrete Pipes, Red Cliffs	644 18 4
2827	Australian Cement Ltd	• • •	2,000 tons Cement	8,733 6 8
2828	J. Hardie and Co. Ltd.		Fibrolite Pipes, Mornington Peninsula	753 4 6
2829	H. L. Salau	• • •	Firewood, Tresco	187 10 0
2830	E. D. Moody		Firewood, Tresco	38 12 11
2831	E. E. Duffy		Firewood, Nyah	325 0 0
2832	A. R. Mannix		Firewood, Nyah	687 10 0
2833	Wm. Russell		Firewood, Merbein	741 13 4
2834	W. C. Mercer		Firewood, Merbein	181 5 0
2835	W. Faulkhead		Firewood, Merbein	183 6 8
2836	M. P. Kairns and Co.		Firewood, Merbein	333 6 8
2837	M. P. Kairns and Co.		Firewood, Merbein	962 10 0
2838	G. W. Dannatt		Firewood, Merbein	<b>556 5 0</b>
2839	C. W. Dannatt		Firewood, Merbein	758 6 8
2840	G. Webb		Firewood, Merbein	733 6 8
2841	A. Robinson		Firewood, Merbein	300 0 0
2842	F. Russell		Firewood, Merbein	741 13 4
2843	Martin Stoneware Pipe Ltd		Stoneware Pipes, Red Cliffs	948 16 8
2844	J. Hardie and Co. Ltd.		Fibrolite Pipes, Mornington Peninsula	814 0 0
2845	P. Mannix, senr		Firewood, Nyah	287 10 0
2846	J. A. Bettie		Firewood, Merbein	550 0 0
2847	W. H. Duffy		Firewood, Nyah	287 10 0
2848	Martin Stoneware Pipe Ltd		Stoneware Pipes, Red Cliffs and Merbein	1,719 0 0
2849	J. N. Nickels		Residence, Kerang	878 11 11
2850	Roela Ltd		Concrete Pipes, Red Cliffs and Merbein	9,130 0 0
2851	Roela Ltd		Concrete Pipes, Mornington Peninsula	1,876 3 9
	Small contracts at piece-work rates-			
	Loan Funds			7,378 0 0
	Unemployment Relief Funds	• •		1,727 0 0
			Total	99,001 10 5
				1

### DIRECT LABOUR.

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

Works.			Loan Funds.		Unemployment Relief Funds.
			£		£
Wimmera-Mallee System			43,388		5,405
River Murray Storages (Hume Reservoir and Traffic Diversions)			17,865		
Rochester, Rodney, Shepparton, Stanhope, and Tongala Districts			15,177		47,186
Eildon Reservoir			14,794		
Mornington Peninsula			13,619		13,544
Maffra District (Glennaggie Reservoir) and Sale District			8,110		2,782
Coliban and Newstea Dietrice			6,408		8,593
Merbein, Millewa, Red Clins, Coreena, Carwarp, and Walpeup Distr	ricts		6,373		11,058
Cohuna, Kerang, Kerang Lakes, Koondrook, Mystic Park, and Tre		ricts	5.486		24,250
Boort, Tragowel Plains, Nyah, and Swan Hill Districts			5,461		16,694
Bellarine Peninsula			5,346		21,188
Goulburn Main Channels			3,728		
Bacchus Marsh and Werribee Districts			2,226		17,123
Kooweerup, Cardinia, and other Flood Protection Districts			1,447		11,697
Other Districts			6,637		6,244
			156,065	••	185,764
Grand Total			3	E341.85	29

# WORKS CARRIED ON OR COMPLETED DURING THE YEAR ENDED 30th JUNE, 1934.

Throughout the Irrigation Districts, including the area supplied from the Coliban System, the channels controlled by the Commission make a total length of 5,269 miles, being 249 miles of main channels from the Goulburn Headworks, 4,192 miles of main and distributory irrigation channels in the districts, and 828 miles of drainage channels.

The main works carried out during the year and chief items of interest in each district are set out in the following pages.

### COLIBAN SYSTEM.

The Coliban System comprises two main storage reservoirs on the Coliban River, the Upper Coliban with a capacity of 25,700 acre feet and Malmsbury with a capacity of 12,300 acre-feet, together with 29 subsidiary reservoirs, with a total capacity of 6,970 acre-feet, also main and distributary channels of a total length of 387 miles, and about 300 miles of urban pipe reticulation.

The scheme provides a supply of water for the City of Bendigo, the important towns of Castlemaine, Eaglehawk, and Maldon, and eighteen other townships, and, in addition to providing water for irrigating orchards, market gardens, permanent pastures, and other crops, of which the area watered annually is about 9.000 acres, supplies the demands of the mining industry throughout the District.

During the year an endeavour has been made to continue the policy of consolidating existing works as far as funds will permit. The result has been that a number of important works throughout the channel system have been considerably strengthened and made more efficient. The Commission, keeping in view the importance of minimizing losses of water in the channel system, has concentrated largely on the lining of leaky sections of channel, and during the year a section of 1,000 feet of the main channel at Malmsbury was completed, also in the subsidiary channels a length of over 2 miles was regraded and lined.

At Specimen Gu'ly, Harcourt, a length of  $\frac{3}{4}$  of a mile of leaky channel was eliminated by laying 11 chains of 24-inch diameter concrete pipe across Boatswain's Gully. A further section of the Diamond Gully syphon at Campbell's Creek which consisted originally of 15-inch diameter spirally riveted pipes was replaced with 10 chains of 15-inch diameter reinforced concrete pipes.

At Upper Coliban Reservoir, necessary repairs to a portion of the by-wash floor which was damaged by flood waters were carried out during the year.

Improvements to the reticulations of Bendigo and Castlemaine, including a number of replacements and extensions of water mains, together with considerable quantities of pipe scraping to maintain the efficiency of the system, were carried out; one of these being the substitution of a new 6-inch diameter fibrolite pipe for an old cast iron main in Barnard-street, Bendigo. This work not only enables a better supply to be maintained, but also provides a supply of water under a pressure that is satisfactory for Fire Brigade demonstration purposes.

During the Summer, some trouble was experienced through the water in Crusoe Reservoir becoming affected by algae. The water was treated with copper sulphate and lime, and, later on in the year, the reservoir was lowered, and a floating arm installed to enable the water to be drawn off at a constant level close to the surface instead of from near bed level.

The wet conditions that prevailed during the Summer made it possible to maintain a supply of water for sluicing until the end of May, when it became necessary to discontinue this supply to ensure the domestic and irrigation requirements of the District.

To augment the storages on the Coliban River a proposal to divert portion of the head waters of the Campaspe River at Ashbourne to the Upper Coliban Reservoir is being investigated. Investigations of other proposals for the improvement of works are in hand.

During the year the scheme to provide a supply of water from the Jim Crow Creek for domestic, stock, and irrigation purposes for Newstead and adjoining districts was completed and is giving satisfaction.

### IRRIGATION AND WATER SUPPLY DISTRICTS.

### GOULBURN DIVISION.

RODNEY DISTRICT.

For the supply of water for the irrigation of lands in this District there are 639 miles of channels, as well as 32 miles of channels for drainage purposes.

In addition to the carrying out of urgent repair and maintenance works, further outlets to replace old leaky orifices were installed and additional concrete regulators were constructed on several channels to facilitate water distribution. At Merrigum, the Webb-Pearce spur channel was extended to outfall in the Bray main channel.

Considerable progress has been made with works designed for the drainage of lands at Wyuna and north of Kyabram. These works are being carried out with Unemployment Relief Funds. The Wyuna Main Drainage Channel and outfall drains discharging into the Goulburn River north of Tongala have been completed, and work is proceeding on the sub-mains north of Lancaster and Kyabram. This drainage system serves an area of approximately 60 square miles and, so far, 32 miles of main drains, together with structural works have been constructed. Plans for works estimated to cost £100,000 have been prepared for the drainage of Ardmona, Undera, and areas at and north of Tatura. It is intended that the most urgent of these works be put in hand as funds become available.

### SHEPPARTON CENTRE.

The Districts controlled from this Centre are Shepparton, North Shepparton, South Shepparton and Katandra, in which there are 463 miles of channels, 278 miles for the supply of water for irrigation and 185 miles for drainage.

The works of the comprehensive scheme of drainage in North Shepparton area were continued, the lower portions of the Congupna and Pine Lodge Creeks being cleaned out and the Katandra Outfall Drain constructed. This scheme has already shown good results in disposing of summer storm-waters.

A drainage scheme for the Fruit Area of the Shepparton District was commenced with funds provided for Unemployment Relief purposes, and the southern portion has been practically completed.

### TONGALA CENTRE.

From this Centre the Tongala, Stanhope, and Deakin Districts and portion of the Echuca North District are controlled. Irrigation channels in these Districts total 366 miles in length and drainage channels 235 miles.

In the Tongala District a further 34 miles of drainage channels were constructed during the year, making a total length of 87 miles. By means of a dragline excavator,  $2\frac{1}{2}$  miles of seepage drain through the main Tongala depression were completed. Earthworks on the Coram Spur drain, 9 miles in length, are almost finished and the necessary structures have been commenced. This drain will serve the north-eastern portion of the District and relieve portion of No. 2 Main Drain. Six miles of existing drains were reconditioned.

The Deakin Main Drainage Channel in the Stanhope District was remodelled for an additional length of 5 miles by means of the No. 18 dragline excavator, and 13 miles of this channel were cleaned out. Two miles of new spur channel have been constructed for the drainage of lands in McDonald's Estate.

In the Deakin District the outfall channel connecting the Yambuna Creek and Goulburn River has been completed and is in effective operation. This channel will be made further use of with the extensions to the Rodnev and Tongala drainage systems.

The outfall for the Deakin Main Drainage Channel in the Echuca North District was completed by dragline excavator, a further 2 miles of channel having been constructed.

### ROCHESTER CENTRE.

In the Rochester and Campaspe Districts and the part of the Echuca North District controlled from this Centre, there are 396 miles of irrigation channels and 62 miles of channels for drainage purposes.

Works carried out during the year included the construction of a new earthen supply channel, with the necessary structures, 20 chains in length, at Wharparilla, and a 12-inch diameter syphon, 300 feet in length, for an improved supply at Nanneella. In addition several new outlets were constructed to various holdings. Urgent necessary repairs and maintenance received attention.

Plans have been prepared for a comprehensive drainage scheme for the Rochester District, involving the ultimate expenditure of approximately £125,000. The works embrace the remodelling of 60 miles of existing drains and the construction of about 200 miles of new drainage channels. Amounts totalling £20,000 have been allocated from Unemployment Relief Funds and 200 men are at present engaged on this work.

In the Campaspe District, a good supply of water was available for domestic and stock purposes, as well as for irrigation. The freshets in the Campaspe River during the months of July and December caused some damage to the Campaspe Weir; necessary repairs have been effected.

Essential maintenance works were carried out in the Campaspe and Echuca North Districts and in the Lockington Urban Division.

### LODDON DIVISION.

### LODDON CENTRE.

From Pyramid Hill, where the Commission's office for this Centre is situated, the Tragowel Plains, Dingee, Calivil and Loddon United Districts are controlled. The total length of irrigation channels in these Districts is 597 miles.

As an Unemployment Relief work, improvements to drainage channels were carried out during the year, and certain improvements and repairs were effected to the by-pass and bank at the Laanecoorie Weir.

### BOORT DISTRICT.

Channels within the Boort District for the supply of water for irrigation have a total length of 140 miles.

Extra provision has been made to enable future floods to be more satisfactorily controlled and work is now in progress under Unemployment Relief conditions in the vicinity of Lake Meering.

### COHUNA CENTRE.

The Districts controlled from this Centre are Cohuna, Gannawarra, and Leitchville. in which there are 232 miles of irrigation channels and 92 miles of drainage channels.

Extensive improvements to drainage works within the Cohuna and Leitchville Districts were carried out with Unemployment Relief funds. Channels were deepened and remodelled over a length of 20 miles and extensions totalling 3 miles in length were carried out.

### KERANG CENTRE.

Throughout the Kerang, Koondrook, and Third Lake Districts, which are controlled from this Centre, there are 466 miles of channels, 427 miles being for the supply of water for irrigation, and 39 miles for drainage purposes.

Under Unemployment Relief conditions extensive drainage works are in progress. The remodelling of the Barr Creek has been continued and three excavators are now working in the vicinity of Westblades Swamp. The Kerang East Drainage Scheme has been commenced and work is now in progress on the Main Outfall Drain between the Pyramid and Barr Creeks, and the concrete syphon under the Pyramid Creek connecting this work is nearing completion.

Levee banks fronting the Little Murray River have been extended, 8 miles being completed during the year.

### TRESCO CENTRE.

From this Centre the Mystic Park, Tresco, Fish Point, and Kerang North-West Lakes Districts are controlled. Irrigation channels in these Districts total 128 miles in length and drainage channels 37 miles.

Full water supplies were provided by gravitation for all irrigators within the Mystic Park, Fish Point, and Kerang North-West Lakes Districts. Requirements at Tresco were met by four general waterings and a special watering during June, the latter being the result of the dry Autumn.

Considerable improvements to the irrigation and drainage systems in these Districts have been completed under Unemployment Relief conditions. Included in these works were the construction of a levee bank to the north-east of Lake Boga to protect the Agricultural College Areas in the Swan Hill District, the completion of a deviation from the existing Tutchewop Boga channel to connect Lake Boga without using Lake Mannaor as a water carrier, as well as works which, in addition to limiting the spread of Avoca River flood waters through Mystic Park District, will also reduce flooding of the marginal lands around the Avoca Marsh. To replace old wooden regulators and provide water supply improvements, two concrete regulators were constructed on the Tutchewop Outfall Channel. The construction of a levee bank along the Little Murray River including the remodelling of the existing bank has been commenced, and, when completed, protection will be afforded to the whole of the Fish Point and portion of the Swan Hill Districts. A channel from Lake Kangaroo to provide water supply to Swan Hill and Fish Point Districts and to reduce the water level of Lake Tutchewop during irrigation periods is also in course of construction.

### SWAN HILL DISTRICT.

Throughout this District there are 105 miles of supply channels and 32 miles of drainage channels.

Improvements to the drainage system at Woorinen have been effected during the year, extensions to existing drains being  $2\frac{1}{2}$  miles, including 60 chains of pipe drains. An outfall channel was constructed from the end of the Beverford supply channel to the River Murray, a distance of one mile.

Extensive alterations to the Little Murray Weir, commenced in the previous year, were

advanced a further stage, and a regulator was put in position at the offtake channel.

The construction of a 200-cusec capacity channel from Lake Boga to Swan Hill Channel has been completed, thus bringing a step closer the proposal to supply Swan Hill District from the Torrumbarry Weir through the Kerang Lakes System.

The dried fruits crop for the season was 2,500 tons.

### NYAH DISTRICT.

The channels in this District make a total length of 54 miles, 35 miles being for irrigation and 19 miles for drainage purposes.

Considerable improvements to both irrigation and drainage channels have been carried

out during the year under Unemployment Relief Conditions.

Of the 4,200 tons of fruit packed at the Nyah District Shed this year, 3,300 tons were produced within the irrigation area. This is the second successive record heavy yield averaging 30 cwt. to the acre over the area of vines in bearing.

### RED CLIFFS AND MERBEIN DISTRICTS.

In the Red Cliffs District, in which there are 124 miles of irrigation channels and 9 miles of drainage channels, five general waterings and one special watering were provided during the year, full supplies being available to meet all requirements.

In the Merbein District there are 54 miles of channels to provide irrigation supplies and 3 miles for drainage purposes. Six general irrigations were given and all demands for water were met. A majority of fruitgrowers in this District voted against a proposal, involving an

increase in the charge for water, for the installation of an additional pumping unit.

During the year the Government made grants from Unemployment Relief Funds towards the cost of main outlet works for sub-surface drainage of horticultural lands in the Red Cliffs, Merbein, and Mildura Districts and considerable progress has been made in the investigation and execution of these works. In the Red Cliffs District a scheme to drain some 94 holdings totalling 1,509 acres of irrigable land at Cardross has been completed, and a commencement was made with schemes to drain 2,098 acres in 153 holdings in the south-east area of the District and 52 holdings containing 936 acres in the south-west part of the District. Similar works to drain 123 holdings having an irrigable area of 2,361 acres at north-west and west Merbein have also been put in hand. These schemes comprise complete systems of underground pipe drains providing an outlet at suitable depths to all holdings within the areas served. The pipes, which have sealed joints, are of stoneware and reinforced concrete ranging in size from 4 inches up to 24 inches in diameter. In order to eliminate risk of blockage and to reduce maintenance costs, block-holders are required to construct silt pits on their holdings into which the internal drainage from individual blocks must be discharged before being taken into the Commission's system. All work put in hand has been at the request of the growers concerned who are required to contribute substantially to the cost of the works.

Several miles of concrete lined channels were relined or repaired during the year, the most important of these works being the relining of portions of Trager's "fill" channel at Merbein and No. 1 Channel in the big "fill" near the Red Cliffs pumping station.

The dried fruits crops for the season amounted to 16,000 tons, valued at £560,000 in the

Red Cliffs District, and 10,000 tons, valued at £400,000 in the Merbein District.

To meet increased demands for water in the Red Cliffs Urban Division, proposals

for additions and alterations to the existing reticulation system are under consideration.

In the Merbein Urban District plans for improvements and additions to the reticulation system have been completed and an early start will be made with the work.

### BACCHUS MARSH AND WERRIBEE DISTRICTS.

For the supply of water for irrigation to lands in the Bacchus Marsh District there are 47 miles of channels.

In order to cope with the increased demand for irrigation supplies at the eastern end of the District, the Darley Main Channel was remodelled and concrete lined for a distance of 3 miles, and about 60 chains of new protective fencing were erected. The Doherty Channel was remodelled and concrete lined for a distance of 30 chains, while 1 mile 14 chains of the Hopetoun Channel were remodelled and concrete lined to increase its carrying capacity. Fifty chains of the Main Supply Channel were rendered with cement. Nine new measuring wheels and emplacements have been installed in the District.

On the Lerderderg River two large stone groynes and eighteen stone gabions have been constructed to protect the banks from erosion, in addition to the large amount of protective work already carried out.

During the last three or four years, many buildings have been erected on that portion of the Bacchus Marsh township known as Slackville. This area has been reticulated with 19 chains of 3-inch diameter and 11 chains of 2-inch diameter pipes and will be included in the Urban Division.

In the Werribee District, there are 47 miles of irrigation channels and 25 miles of channels for drainage as well as 24 miles of channels to provide domestic and stock supplies.

The work of concrete lining irrigation channels to prevent seepage and to give a more efficient delivery was continued during the year, and an additional length of 5 miles 44 chains was lined.

Additional drainage facilities were also provided, and the drains are functioning effectively. The value of drainage is well illustrated by the sale of a holding of 53 acres during the year. About fifteen years ago this land was apparently ruined by seepage. The Commission, therefore, carried out a reclamation scheme, and so effective were the drainage works that the land was sold during 1933 for £61 10s. per acre.

The usual service of domestic and stock supply was given the Waterworks District. Eight miles of channel in that District were regraded and greater efficiency in service resulted.

### Maffra-Sale Districts.

In these Districts there are 190 miles of irrigation channels and 58 miles of channels for

In the areas served by drainage channels no difficulty was experienced in dealing with the run-off following unseasonable rains during the year, and arrangements have now been made for extensions of these channels to many parts of the Districts not previously drained. New supply channels 3 miles in length were constructed to meet the demand for permanent irrigation supplies, while drainage channels were extended by 4 miles. Seepage prevention works included the concrete lining of 5 chains of the Main Sale Channel, 15 chains of the Tinamba Northern Channel, and the construction of 2 miles 46 chains of concrete box channels.

To meet the requirements of the Country Roads Board, the Glenmaggie Bridge was covered with wheel-board decking, 1½ miles of road around the Glenmaggie Reservoir were reformed, and two large concrete culverts were installed. Erosion of the banks of the Avon River threatened the safety of the Commission's supply channels in several parts of Boisdale, and was checked by the erection of  $4\frac{1}{2}$  chains of single and 12 chains of double stone crib work, supplemented by willow plantings.

A metallic circuit telephone line, 24 miles in length, was erected to assist in the efficient working of the Districts, the terminal points being the Glenmaggie Weir and the Maffra office.

The main basin of the Stratford township supply was remodelled and enlarged to hold  $4\frac{3}{4}$  million gallons of water, and a modern chlorinating plant was installed to ensure the satisfactory quality of the supply.

The Commission's office is now situated in a new brick building erected for that purpose

in the centre of the town of Maffra.

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

In connexion with the proposed supply of water from the River Murray to lands in the Murray Valley area, contour surveys have been further extended within the area, and the location of the Main Canal from the site of the diversion weir at Yarrawonga and of the main distributary channels is now proceeding. Preliminary surveys for the location of a channel line connecting the Main Canal from Yarrawonga with the Goulburn System have been completed to the Broken River syphon.

In regard to the proposed diversion weir at Yarrawonga, detail designs have been The plans, which are now ready for submission to the River Murray Commission for approval, cover all portions of the structure with the exception of the spillway crest gates,

the design of which is still in progress.

Based upon survey information, a detail estimate of the cost of the proposed scheme to provide reticulated water supplies to the towns of Warrnambool, Camperdown, and Terang has been made which, together with alternative allocation of charges as between the centres, has been forwarded to the interested municipalities.

A comprehensive investigation has been made into the Mornington Peninsula Scheme with a view to providing for extensions of service to several additional towns. Contour surveys have been carried out for the proposed Bittern Reservoir which will serve the Dromana–Sorrento-Portsea extension. An estimate of the cost of supplying the towns of Dromana, Sorrento and Portsea together with other bayside towns en route has been submitted to representatives of the towns to be supplied.

Detail designs of the extensions to the Bellarine Peninsula Scheme to provide reticulated water supplies to Drysdale, Portarlington, Torquay, and Anglesea have been prepared and the

works are now in progress.

Preliminary investigations have been made in connexion with the possibilities of improving the supply to the Coliban storages by means of diverting portion of the winter flow of the Campaspe River at Ashbourne into the Coliban River.

A proposal for increasing the storage of the Melton Reservoir by the installation of crest gates on the existing by-wash was investigated and an estimate of cost prepared. Steps are

now being taken to carry out this work.

In order to obviate the use of a considerable length of the Gunbower Creek near Cohuna as a carrier for irrigation purposes and to improve drainage conditions by lowering the water at Cohuna Weir, a scheme was prepared for serving the area by the enlargement of the existing Gunbower-Cohuna Right Branch Channel. This scheme has been deferred, for the present, on the representations of the irrigators.

In Merbein and Red Cliffs Districts, surveys have been carried out in respect to a comprehensive drainage scheme for lands within these districts and works were commenced.

Surveys for the location of main and subsidiary drainage channels are being carried out

for lands in the East Kerang area.

Surveys are now in hand in connexion with drainage schemes for Rodney, Maffra, and Rochester Districts and the further extensions of Tongala and Shepparton drainage schemes.

Surveys have been carried out in the Kerang North-West Lakes areas in connexion with

proposed improvements of irrigation supplies therein.

Extensive surveys have also been carried out at Black Swamp near Wangaratta and along the Ovens, Fitzroy, Loddon, and Snowy Rivers in regard to probable river improvements.

Proposals for the improvement of the services to the following existing urban supplies have been investigated, viz:—Red Cliffs, Merbein, Leitchville, Quambatook, and Wonthaggi.

### WATERWORKS DISTRICTS.

### Mornington Peninsula Districts.

During the year the construction of the first stage of the Lysterfield Reservoir, capacity 3,400 acre feet, was satisfactorily completed. This reservoir, in addition to providing an improved supply to Carrum, Chelsea, Edithvale, Aspendale and portion of Dandenong, will make ample water available for market gardening and poultry farming purposes in the closely occupied areas of Dingley, Keysborough, and adjoining districts. The construction of the outlet works from the Lysterfield Reservoir, the chemical clarifying plant, settling basins and service reservoirs, and the laying of approximately 12 miles of 18-inch, 21-inch and 24-inch diameter pipes from Hallam to Chelsea were completed. The whole of the plant and the pipe line operated successfully and full water supplies were available in the Carrum, Chelsea, Edithvale, and Aspendale areas at all times during the Summer period.

Approximately 8 miles of the Cranbourne-Langwarrin-Hastings Channel were completed, and the construction of the new storage basin in the parish of Bittern, some 4 miles west of the Hastings township, was commenced with funds provided for Unemployment Relief purposes. These works when completed will provide an increased water supply to the Naval Base. They are also at a level sufficiently high to command by gravitation the bayside townships from Dromana to Portsea on Port Phillip Bay and Palm Beach and Balnarring on Western Port Bay,

should such works be undertaken at a later date.

The present scheme of supply to the townships of Garfield and Bunyip was further extended, at the request of the residents, to embrace the township of Longwarry. A pipe line approximately 3 miles long of  $3\frac{9}{16}$ -inch diameter fibrolite pipe was laid to the township along the Bunyip–Longwarry Road and the necessary reticulation mains were put down. Water has

been turned into the mains and the supply is satisfactory in every respect.

The construction of the service basin in connexion with the Bunyip-Garfield-Longwarry supply with Unemployment Relief Funds was completed and the basin was filled with water. Unemployment Relief Funds were also provided for the earthwork in connexion with the raising of the embankment of the Mornington Reservoir. Approximately 40,000 cubic yards of earth were placed in the embankment and the necessary stone beaching is now in progress. This new work when completed will increase the capacity of the Reservoir from 34½ million gallons to 66 million gallons. This increased capacity will materially assist in the economical working of the scheme.

Further considerable extensions were made to the existing reticulation systems in the townships of Frankston, South Frankston, Noble Park, and Mount Martha.

### Wonthaggi District.

The main storage reservoir at Lance Creek contained ample water for all requirements, but difficulty is experienced in supplying the service basin at Wonthaggi during peak demands. It is proposed, however, to improve the supply by installing a duplicate pumping plant and constructing a new storage basin near the town.

The 12-inch main from the reservoir to the town was brushed out, the service basin

cleaned, and the works maintained in a satisfactory condition.

### Bellarine Peninsula Districts.

The main supply works for the above districts maintained ample supplies for all demands during the year, the principal reservoir at Wurdee Boluc holding, at the end of the period, sufficient water for the coming season. Improvements were made to the main inlet and outlet channels, the most important being the concrete lining of 5 miles of the latter channel.

The pipe reticulations of Queenscliff, Point Lonsdale, Ocean Grove, and Barwon Heads were satisfactorily operated, full volumes of water of excellent quality being available throughout the season. As a result of this scheme a marked improvement is apparent in the general

appearance of these towns.

During the year the laying of the main supply pipe lines for Drysdale and Portarlington

was carried out and the pipe reticulation systems for these towns were installed.

Substantial progress has been made with the construction of the channels and storage basins for the water supply to Torquay and Anglesea, and arrangements have been made to procure pipes for the reticulation of these townships. It is anticipated that these systems will

be ready during the coming year.

From the Bellarine Scheme, 386,000,000 gallons of water were supplied to the Geelong Waterworks and Sewerage Trust during the year through 5 connexions with the Commission's Bellarine main, two additional connexions having been installed by arrangement to augment

the supply to the City of Geelong.

### WIMMERA DIVISION.

### WIMMERA-MALLEE WATER SUPPLY.

The annual distribution of water for domestic and stock supplies to the Wimmera-Mallee area was carried out without any delays of consequence. The total length of channels supplying this area of 11,000 square miles is 6,175 miles. The prolonged dry Summer depleted considerably the farmers' supplies and all main channels were run at their fullest capacity to relieve farmers and to confine distribution to the Winter months as far as possible. The dry season has retarded the growth of vegetation, and, unless very plentiful Spring rains fall, it is anticipated that considerable trouble will be experienced with sand drift next Summer as there is very little natural cover in the Mallee areas. Ample supplies of water were made available to the five towns within the area controlled by Waterworks Trusts as well as to the following 37 Urban Districts, which have pipe reticulation systems operated by the Commission:

$\mathbf{A}\mathbf{n}\mathbf{t}\mathbf{w}\mathbf{e}\mathbf{r}\mathbf{p}$	$\operatorname{Dimboola}$	${f Marnoo}$	${f Patchewollock}$	Ultima
$\operatorname{Berriwillock}$	Dooen	Minyip	Quambatook	Waitchie
${f Beulah}$	Hopetoun	Nandaly	Rainbow	Watchem
Birchip	Jeparit	${f Natimuf k}$	Rupanyup	Woomelang
$\operatorname{Brim}^{-1}$	Jung Jung	Nullawil	Sea Lake	Woorinen
Chillingollah	$\operatorname{Lalbert}$	Nyah West	Speed	Wycheproof
Chinkapook	Lascelles	Ouyen	$\operatorname{Tempy}$	Yaapeet
Culgoa	Manangatang	J	1 /	1

The very heavy rains in December last filled the whole of the Wimmera-Mallee storages in the Grampians to overflowing, thus ensuring supplies for a considerable period. The new by-wash and by-pass channel at Lake Lonsdale Reservoir carried the heavy overflow without any adverse effect on the new works, and the reservoir was filled to its increased capacity of 53,300 acre-feet.

The Riverside, Burnlea, Young, Quantong, and Haven irrigation settlements received their supplies from Green and Dock Lakes. The advantageous position of these new storages enabled ample supplies to be provided at short notice; thus meeting the requirements for perishable crops and effecting a considerable saving in water to be made as against the

previous system of supplying these settlements from the Wartook Reservoir.

The construction of an inlet channel from the Glenelg River to Moora Storage is in hand and will enable this regulating basin to be further utilized to convey surplus flows from this catchment to the main storages. At the beginning of the Summer, full benefits from the Mount Zero Scheme were made available to the Borough of Horsham Waterworks Trust. The 12-inch diameter wood main which was laid some 21 years ago was taken up, recoated, and relaid in two rows on to the end of the 18-inch diameter concrete lined steel main already in position,

The wood main was found to be in excellent condition and of the 10 miles of pipe lifted, none had to be discarded. The whole pipe system is supplied from a service basin at the end of the Mount Zero Channel. The completion of this channel and main has placed Horsham in a very advantageous position as regards water supply, the pressure provided being most satisfactory and the quality of the water being of a very high standard.

Western Wimmera, Upper Western Wimmera, Wimmera United, Upper Wimmera United, Karkarooc, and Hindmarsh Districts.

As stated above the Mount Zero Channel, some 18 miles in length, was completed, and a small channel was constructed near Wonwondah, to serve allotments previously supplied from the Horsham wood pipe line now removed. The renewal of a syphon, 52 chains long, at Mount Arapiles was undertaken with surplus wood pipes from the Mount Zero Scheme. Repairs made to the Longerenong Weir on the Wimmera River will enable greater flows to be diverted along the Yarriambiac Creek to the advantage of all towns through which the creek passes.

A new water supply storage was completed at Watchem, thus providing ample Summer

supplies for that town. Extensions of mains were carried out in the township of Dimboola.

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

In all of these Districts dry conditions have prevailed and the amount of cover on the light sandy soil is very small. Consequently, if copious rains do not fall in the Spring, the sand drift trouble will be serious.

In Tyrrell District, 12 miles of channel and an earthen tank were constructed to supply settlers south of Underbool on the fringe of the bore country, who were dependent for their supplies by carting from bores which had too high a mineral content for general use. An earthen tank, 32,000 cubic yards capacity, was constructed close to Walpeup Township to augment water supplies for the residents who previously had to cart water for some distance. This tank is so located that it can be used for the reticulation of the township should such a system be installed in the future.

In Baring District, four ironclad catchments were constructed while eleven others are being erected in co-operation with the Closer Settlement Commission. These catchments are being installed on allotments too high to be served by the Commission's channel system.

A channel, 5 miles long, was constructed on the east of Donald to connect the Charlton Channel System to the Donald Main Channel. The construction of this channel enabled many landholders, hitherto unserved, to obtain a supply of water, and also allowed the Donald Waterworks Trust to fill its storages to a greater capacity by gravitation with water of an improved quality. In order to supply water from the channel system to some high allotments in the Borong district between Woomelang and Sea Lake, several windmills and pipe lines were installed.

Extensions to water mains were made in the Manangatang, Nyah West, Birchip, Sea Lake, and Nullawil Urban Districts.

### WALPEUP WEST DISTRICT.

The water supply in this District is provided by public and private bores. number of public bores equipped with windmills and elevated tanks is 109, and they have been kept in operation during the year. As the number of bores installed by landholders on their holdings is increasing the draw on the public bores is now less than formerly. Two bores on the desert stock route between Nhill and Murrayville were installed and placed under the control of the Lowan Shire Waterworks Trust.

### COREENA DISTRICT.

Water was run in the 100 miles of channels in this District, domestic and stock supplies being provided from the pumping plant adjacent to the River Murray at Coreena Bend to all holdings in the District.

### CARWARP AND CARWARP CENTRAL DISTRICTS.

The watering of these Districts was carried out in satisfactory time, comparing very favorably with last year. The supply is given by pumping from the River Murray at Red Cliffs, the total length of channels being 154 miles.

### YELTA DISTRICT.

All dams in this District were filled during the year with water pumped at Merbein throughout the 50 miles of channels comprising the system. On account of abnormally dry conditions prevailing towards the end of the year, a special run of water was provided for tank filling on a section of the system.

### MILLEWA AND MILLEWA CENTRAL DISTRICTS.

Full supplies of water were distributed through the 687 miles of channels which comprise this system. This completed the tenth annual watering. In the Meringur Urban District an additional service tank is being installed and an auxiliary oil engine supplied to meet the needs of this growing township.

### DRAINAGE AND FLOOD PROTECTION SCHEMES.

### LOCH GARRY.

There was a short high flood in the Goulburn River in September and the works carried out their purpose of protection quite efficiently.

### KANYAPELLA.

Two small outlets were constructed in the channel connecting the Yambuna and Warrigal Creeks to enable adjoining landholders to control delivery of water for stock purposes. floods of any consequence occurred during the year.

The level of the Campaspe River during the past year did not reach a stage where the levee banks were called upon to protect the District. However, levees are being maintained in good order and condition to cope with any emergency.

### CARRUM.

During the year, the construction of the Eastern Contour Drain in the Parish of Lyndhurst was satisfactorily completed under Unemployment Relief conditions. This work, which intercepts the drainage water of 54 square miles of Cranbourne high lands and discharges it direct into the new Eumemmerring Canal, has now made a large area of valuable farming lands in the Carrum District immune from the frequent floodings it usually received, and has already proved a great

On completion of the Eastern Contour Drain, the bucket dredger travelled direct to Pillars Bridge and commenced the work of diverting the Dandenong Creek from its existing outlet to the sea at Mordialloc to the new waterway provided in the enlarged Eumemmerring Creek with its outlet at Carrum. Steady progress has been made and it is anticipated that the diversion will be completed during the coming Summer months so as to be available next Winter.

### KOOWEERUP AND CARDINIA.

In these Districts, there are 415 miles of drainage channels controlled by the Commission. During the year further progress has been made by the Commission in constructing new

channels, enlarging and remodelling existing drains, and carrying out maintenance work within the Kooweerup and Cardinia Districts, mainly as Unemployed Relief Works.

By means of dragline excavators, the enlargement of the No. 6 Yallock Drain has been extended 3 miles to Modella-road and the Cardinia Channel was remodelled and enlarged for 3 miles above the "V" junction, while the construction of the Main Western Contour Drain by bucket dredger has progressed  $1\frac{3}{4}$  miles to within 25 chains of the Clyde Creek at Bullarto-road. The construction of minor drains by horse teams has been carried out for a total length of 100 chains. In all about 240,000 cubic yards of earthwork were removed during the year, mostly by mechanical excavators.

New structural work included the erection of 9 timber bridges totalling 550 lineal feet in length; 20 concrete pipe outlets and drops;  $3\frac{1}{2}$  miles of fencing; and other minor works.

Maintenance work comprised the remodelling and regrading of drains for a total length of 32 miles, the treatment of noxious weeds and vermin along some 36 miles of drainage reserves, and general repairs to bridges and structures.

Privately owned suction plants, operating under an arrangement with the Commission, have removed 10,000 tons of coarse clean sand from the Kooweerup Main Canal during the year. The total output of sand to date is 285,000 tons.

### RIVERS AND STREAMS DIVISION.

### RIVER IMPROVEMENT.

During the year many applications were received from landowners for permission to carry out works for the protection of their properties from erosion or flooding, and, where investigation showed that proposals were justifiable, permission was granted under the provisions of the Water Act 1928 for the works to be carried out at the cost of applicants.

Much valuable work is being done throughout the State with assistance from the Rivers

and Streams Fund which enables the whole of the rentals received from river frontages to be expended on works of stream improvement, comprising the removal of obstructions from their courses and the prevention of erosion of their banks. During the year 42 grants towards the cost of works of this nature were approved after investigation and on the recommendation of the Honorable the Commissioner of Public Works, bringing the number approved since the creation of the Fund in 1930 to 119. Owing to the limited resources of the Fund, grants have been made only on a contributing basis. In the cases of expenditure for the protection of public works such as roads or bridges, grants have been up to two-thirds of the total cost, but where private lands are benefited, contributions have been required from the landowners concerned, and the subsidy from the Fund has been limited to not more than one-half of the total cost of works.

The estimated total cost of works for which grants have been approved during the year has been £13,382 towards which the approved contribution from the Fund has been £5,632, the

balance being provided from other sources.

Surveys to provide information upon which to base remedial measures have been continued on streams most urgently requiring attention. The survey of the Ovens River from Wangaratta upstream to a few miles above Myrtleford, a total length of 56 miles, has been completed, as also has a survey of the Tambo River at Bruthen and of the Snowy River at Orbost. At the latter place, extensive works based on this survey are now in hand. These works comprise the snagging of the river and the removal of several large willow-covered islands and the construction of a number of embankments to prevent breakaways of the river.

Following the completion of the survey of the Black Swamp, the Black Dog Creek and tributary streams, a scheme for the protection of adjoining lands was prepared during the year and submitted to the Wangaratta and Rutherglen Shire Councils with the suggestion that the

works proposed might be carried out under the provisions of the Drainage Areas Act.

The necessity for special legislation to provide for the carrying out of river improvement works is becoming increasingly apparent. Such legislation should provide for the constitution of River Improvement Districts on lines similar to those of Drainage Districts, sections 77–79 of the Water Act 1928, the annual maintenance charges involved being met by rating the lands benefited, and it should also provide for the carrying out of minor works of river improvement without the constitution of Districts.

### MURRAY LEVEES.

The Interstate Committee appointed to report on applications for permission to construct levees protecting lands in Victoria and New South Wales from flooding from the River Murray, has dealt with a number of proposals during the year. In several instances, landowners who had previously obtained permission to construct levees signified that they did not propose to proceed with their works and in these cases approval was withdrawn and the reclamation debited against the State concerned was cancelled. Approved flood protection works on the Victorian side of the Murray now represent a total reclamation of 17,973 acre-feet out of a permissible total of 33,000 acre-feet. Those on the New South Wales side represent 35,341 acre-feet, the permissible total being 99,000 acre-feet.

### 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.

Unseasonable conditions during the year resulted in some remarkable extremes in gauging records. Generally, the discharge of streams during the mid-summer months was considerably above the average, and heavy flooding occurred in the Loddon River during December and in the Snowy River in January. The peak flow of the Loddon flood was exceeded only by that of the record flood in 1909, while in the Snowy River the discharge, which was computed to be at the rate of 245,000 cubic feet per second at the Jarrahmond Station, was the highest recorded since the inception of gaugings.

In the latter part of the year, stream flows reached an exceptionally low level, and in the Goulburn River the June discharge was the minimum recorded for that month during the past

53 years.

During the year a new gauging station was established on Riddell's Creek at Riddell, and the gauging of 25 other streams was discontinued as it was considered that sufficient information regarding their behaviour had been obtained.

The number of gauging stations now in operation is 37.

### 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 sources of supply.

Owing to repeated heavy falls of rain, irrigation by private diverters was not so extensive as during the previous year, and, due to this, as well as to the early failure of many tobacco crops, and the adverse financial position of former diverters, the demand for authority to divert water was below that for the preceding year.

Authorized diversions in force are :-

Yearly permits	 			 	1,335
Flood permit	 		• • .	 	1
Licences	 			 	11
Total	 	, .		 	1,347

During the year the Scale of Charges for authority to divert water from natural sources has been revised and will come into operation as from the 1st July, 1934. A reduction has been made in the charge for diversions for domestic and stock supplies to rated lands within Waterworks or Irrigation Districts. In the case of diversions for the development of water power, a reduction was made in the unit charge per horse-power, but the charge was made to apply to the maximum capacity of the plant instead of the average horse-power developed. This was done in order to simplify the application of the charge. Other minor alterations were made to remove anomalies in respect to diversions for irrigation.

### WATER DISTRIBUTION.

The irrigation demand which usually commences in the Northern Districts on 1st September and in the Southern Districts on 1st October, did not this year commence until late October, and continued fairly generally until early December, when heavy rainfall interrupted water deliveries. Consequently, at the end of the Irrigation Season, only 75 per cent. of Water Rights allotted had been used up.

Although the defined irrigation period closed on 30th April, water was made available

until late June, at the request of irrigators, in a number of Districts.

In order to augment the supply to the northern sections of the Wimmera-Mallee System, a volume of water amounting to 29,586 acre-feet was sent westward of the Avoca River from the Goulburn and Loddon Systems.

### 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 55 miles. The total length of main channels is therefore 343 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.

In connexion with the irrigation supply to lands in the vicinity of Dunbulbalane, offers for the construction of earthworks, at piecework rates, have been accepted and work commenced on the extension of the Dunbulbalane Main Spur Channel (D4) from its present terminus in the Parish of Youanmite to the Parish of Dunbulbalane, a distance of 1 mile.

Minor breaks in the stone face pitching of the embankment at Waranga Reservoir, caused during storms, have been 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.

Further work to give effect to the recommendations of the Inquiry Board, to which reference has been made in previous Reports, was carried out. The bank was maintained at the designed section by placing necessary rock fill. Further work was done on the new outlet works, and, with the exception of the alterations to the main outlet tower, this work was practically completed.

The control valves were satisfactorily operated at regular intervals, under varying heads

up to  $\underline{100}$  feet.

The installation of the six flood control gates in the spillway gap at R.L.808 was continued, and will be completed early in September, 1934. This will restore the reservoir to its original capacity of 306,000 acre-feet.

Further work was done to the drainage system in the downstream section of the bank. Regular observations were continued throughout the period and have shown consistently satisfactory results for the work so far completed.

### TOTAL STORAGES IN STATE.

In 1902 the total capacity of storages in the State was 172,000 acre feet. The present capacity is 1,908,870 acre feet. The Hume Reservoir, designed to contain 2,000,000 acre feet (half of which can, subject to the provisions of the River Murray Agreement, be credited to the State of Victoria) now has a capacity of 1,250,000 acre feet. When the final stage of this work has been constructed (involving a further approval of the interested State Governments), and the Yarrawonga Weir, Euston Lock Weir, Glenmaggie and Bittern Reservoirs are completed, the combined capacities of Victoria's storages will be 2,367,570 acre feet.

		ı	<b>EXISTING</b>	STORAG	<b>E</b> 8.				
Goulburn System— Goulburn Weir							Ca <sub>1</sub>	pacities in Acre 20,700	Feet.
								333,400	
Eildon (200,000 acre fee	et capacit	y this y	rear)	• •	• •			306,000	
Murray-Loddon System-	-								660,100
Hume Reservoir (part of				share)				625,000	
Torrumbarry (half shar			feet)					13,000	
Mildura (half share of 3			••					17,000	
Wentworth (half share	of 20,000	acre fe	$_{ m et}$ )	• •	• •	• •		10,000	
· · ·	• •	• •	• •	• •	• •	• •	• •	40,860	
Laanecoorie		• •	• •	• •	• •	• •	• •	6,650	
Kerang North-West La		• •	• •	• •	• •	• •	• •	92,000	
Lake Boga Long Lake		• •	• •	• •	• •	• •	• •	28,000 3,820	
	• •	• •	• •	• •	• •		• •	3,020	836,330
Wimmera-Mallee System-	Andrew .							17 100	000,000
Fyans Lake Lake Lonsdale		• •	• •	• •			• •	17,100	
W41	••	• •	• •	• •	• •	• •	• •	<b>5</b> 3,300 23,800	
Taylors Lake	• •	• •	• •	• •	• •	• •	• •	30,000	
Dina Talaa	••	• •	••	••	••	••	•	52,000	
Green Lake	• •	• •	••	••	• •	••	• •	6,600	
Dock Lake						• •		4,800	
Moora								5,100	
Lower Wimmera Weirs			••		• •			2,870	
Batyo Catyo (Avon Re			• •					5,000	
Lake Whitton	••				• •			1,300	
Earthen Storages, Tow	nship Res		, and Malle	ee Tanks				5,760	
Maffra-Sale System-	•								207,630
Glenmaggie (part of 15	0.000 acr	e feet)							104,500
Coliban System—	0,000 401	000)		• •	••	• •	• •	• • •	20-,
Upper Coliban								25,700	
14 î 1	• •	••	••	• •	• •	• •	• •	12,300	
Malmsbury Spring Gully	••	• •	• •	• •	••	• •	• •	2,000	
Subsidiary Reservoirs	••		• •		••	• •		4,970	
Werribee System—	••	••	••	••	••	••	• •		44,970
D ) 6 ,								21,000	,
M-14	• •	••	••	• •	• •	• •	• •	17,000	
	••	• •	••	• •	• •	• •	• •	11,000	38,000
Bellarine Peninsula Syst Wurdee Boluc								10,000	00,000
Service Basins	• •	• •	• •	• •	• •	• •	• •	10,000	
	••	• •	• •	• •	• •	• •		630	10,630
Mornington Peninsula S	ystem—							2.122	10,000
Lysterfield		• • • • • • • • • • • • • • • • • • • •	• •	• •	• •	• •	• •	3,400	
Beaconsfield, Franksto Service Basins	-	orningt		• •	• •	••	• •	1,560 200	
	••	• •	• •	• •	• •	••	• •	200	5,160
Miscellaneous-									
Wonthaggi	• •	••	• •	• •	••	• •	• •	••	1,550
Total caps	city of e	xisting	Storages						1,908,870
								-	
ADDITIONAL STORAG	E BEING	PROVID	ED BY WO	RKS AP	PROVED G	R IN CO	URSE	OF CONSTR	UCTION.
M. C. G. G.									
Maffra-Sale System— Glenmaggie (balance o	f 150,000	acre fee	et)						45,500
Mornington Peninsula S	ustem-								
Bittern	••								1,200
Murray System— Hume Reservoir, at ju	nction wi	th Mitt	a River (h	alf-share	of balance	of 2,00	0,000		·
acre feet)		٠.	`						375,000
Yarrawonga Weir (hal									25,000
Euston Lock Weir (ha	alf share o	of 24,00	0 acre feet	<i>5</i> )	••				12,000
Total capa	city of St	orages	when wor	ks are c	ompleted				2,367,570

# 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.

Following a report by the River Murray Commission regarding the proposed construction of further works, the Right Honorable the Prime Minister of Australia and the Honorables the Premiers of New South Wales, Victoria, and South Australia have entered into an Agreement, for the further variation of the River Murray Agreement, to provide for the construction in accordance with the general provisions of the original Agreement of (a) The Upper Murray Storage (Hume Reservoir) to a capacity of approximately 1,250,000 acre feet of water only, (b) A roadway over the Hume Dam, (c) A diversion weir at Yarrawonga, (d) Two weirs on the River Murrumbidgee, and (e) Barrages across the five channels in the vicinity of the Murray Mouth. This further amending Agreement also provides for (1) The extension of the construction of the Upper Murray Storage to a capacity of not more than approximately 2,000,000 acre feet of water, if and when so desired, by the States of New South Wales, Victoria, and South Australia, (2) The release of the Commonwealth Government from liablity to contribute towards the cost of maintenance, operation, and control of completed works and gauging stations, such cost to be borne in equal shares by the three State Contracting Governments, and (3) The deletion from the Agreement of the thirteen weirs and locks on the River Murray and the nine weirs and locks on the River Murray and the nine weirs and locks on the River Murray and the nine weirs and locks on the River Murray and the nine weirs and locks on the River Murray and the nine weirs and locks on the River Murray and the nine weirs and locks on the River Murray and the nine weirs and locks on the River Murray and the nine weirs and locks on the River Murray and the nine weirs and locks on the River Murray and the nine weirs and locks on the River Murray and the nine weirs and locks on the River Murray and the nine weirs and locks on the River Murray and the nine weirs and locks on the River Murray and the nine weirs and locks on the River Murray and

The Commonwealth Parliament has ratified this further amending Agreement, and action is being taken to introduce the necessary ratifying legislation into the Parliaments of the States of New South Wales, Victoria, and South Australia.

The Lake Victoria Storage, constructed by the South Australian Constructing Authority, was filled to its full capacity of 514,000 acre feet of water for the first time since the works were constructed. This Authority has also practically completed the construction of Weirs and Locks Nos. 7 and 8, thereby making the River Murray permanently navigable from its mouth to about 40 miles above Mildura.

The New South Wales Constructing Authority, following approval of the River Murray Commission, has re-commenced work at Weir and Lock No. 15, Euston.

### 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 spillway from R.L. 580 to R.L. 606 to enable the capacity of the storage to be raised to 1,250,000 acre feet.

In Victoria the work of constructing the Main Embankment and Bank No. 2 was continued, the Main Embankment being brought to the level of R.L. 635, or 125 feet above the river flats, and Bank No. 2 being completed to its finished height of R.L. 630. During the year 11,424 cubic yards of earthwork were placed in the embankments, and 373 cubic yards of concrete and 3 tons of steel reinforcement in the core wall, which was also completed to its finished height of R.L. 638. In addition, 168 cubic yards of gravel beaching were placed on the downstream faces of both embankments. The paving of the upstream faces of these embankments with a 12-inch layer of concrete was completed, the quantity of concrete placed during the year being 3,267 square yards. A storm-water drain on Bank No. 2, 1,200 feet long, was constructed, and 3,269 reinforced concrete drainage slabs were made during the year, 680 of which were placed in position on the main embankment.

The embankments, boundary lines, and excavations were all fenced, the total length of fencing erected being 15,000 feet.

Road deviations, being carried out on behalf of the Water Commission by the Victorian Country Roads Board, on the Upper Murray Valley Roads are proceeding satisfactorily. Contracts were also let for deviations in the Towong Shire, and construction commenced. It is expected that all roads will be completed by September, 1934.

### YARRAWONGA WEIR.

The remainder of the boring of the foundations for this work was completed and plans and estimates prepared by the Water Commission (the Constructing Authority for Victoria) in co-operation with the Public Works Department of New South Wales. These plans will be submitted to the River Murray Commission for approval as soon as the legislation to amend the River Murray Agreement has been passed by the Governments concerned. Arrangements have been made for the transfer of the necessary plant and buildings from other works to enable construction to be commenced during the Spring season of 1934.

### WEIRS AND LOCKS, TORRUMBARRY AND MILDURA.

Both these works operated satisfactorily during the year, and again proved beneficial in connexion with the water supply to the important Irrigation Districts along the River Murray.

### WORKS CONTROLLED BY OTHER AUTHORITIES.

(Under General Supervision of the Commission.)

SEWERAGE IN COUNTRY DISTRICTS.

The Ballarat Sewerage Authority continued to extend the reticulation sewers to serve the outer areas, the sewering of the whole of the City being completed. Minor sewer extensions were carried out at Bendigo.

The works of the Colae, Mildura, and Echuca Sewerage Authorities have been in satisfactory operation throughout the year.

The Swan Hill Sewerage Authority completed the construction of its works and the majority of the houses have been connected to the sewers.

The Warrnambool Sewerage Authority completed the major portion of its works and a commencement has been made with the connexions to the sewers.

The Horsham Sewerage Authority is making good progress with the construction of works.

The detail survey in connexion with the Wangaratta sewerage scheme was completed and the construction of works was commenced by the Authority. A detail survey in connexion with the Kerang sewerage works was also completed and plans are being prepared for the construction of works.

Sewerage Authorities were constituted at Benalla and Kyneton and preparations are being made for detail surveys.

Applications for the constitution of Sewerage Authorities at Shepparton and Dandenong were examined and the schemes generally approved, while proposals for sewerage schemes at Hamilton and Warragul are under consideration.

### COUNTRY WATER SUPPLIES.

Many important works were carried out by Waterworks Trusts and local governing bodies, of which there are now 113 and 17 respectively.

The Warrnambool City Council installed a new rising main to provide an improved water supply for sewerage and general purposes.

The Mooroopna Waterworks Trust is contemplating the installation of a purification plant to improve the quality of the water supplied to consumers, and the Lorne Waterworks Trust is commencing the construction of a new service basin to improve the supply to the high levels of the town.

The Kilmore Waterworks Trust increased the capacity of its main storage basin to ensure an adequate supply throughout the Summer months.

The Rochester Waterworks Trust commenced the construction of a filtration plant to improve the quality of the town water supply, while the Hamilton Trust enlarged a further section of the 23-mile main pipe line leading from the Grampians to the town.

The Horsham Waterworks Trust laid new pipe mains to enable advantage to be taken of the improved supply from the Mount Zero Scheme.

The Gisborne Trust completed the construction of a new storage basin of 2,000,000 gallons capacity to supplement the supply from Baringo Creek.

The Moe Waterworks Trust, recently constituted, is well advanced with the construction of works for the supply of water to the township of Moe.

The Myrtleford Waterworks Trust was constituted and will shortly construct works for a town water supply at Myrtleford.

The St. Arnaud Borough Waterworks Trust laid new mains to provide an independent supply to the higher areas of the district.

Pipe extensions and other works were carried out at Colac, Tungamah, Swan Hill, Wangaratta, Maffra, Bairnsdale, Seymour, Toora, Yarram, Morwell, Woodend, Kerang, Shepparton, and Echuca.

The Avoca Water Trust was abolished by Act of Parliament,

## PROGRESS IN IRRIGATION DISTRICTS.

Dairy herds which were grazed in Irrigation Districts again secured the leading positions in the Standard Herd Test which is conducted annually by the Department of Agriculture. The first place for the 1933-34 season was awarded to a herd from the Tongala Irrigation District, whose average production was 560.29 lbs. of butter-fat, while second place was secured by a herd from Tallygaroopna, in the North Shepparton Irrigation District, with an average production of 543.33 lbs. of butter-fat per cow. It is noteworthy that three out of the first four places in the order of merit list were won by herds from Irrigation Districts situated in widely separated portions of the State. The second prize for the highest individual return was also gained by a cow from the Tallygaroopna irrigation area, with an average production of 701.87 lbs. of butter-fat. In the individual classes also, the leading places were gained by cows from Irrigation Districts.

A notable fact in connexion with the Dairy Herd Tests is that the only cow to gain the title of Grand Champion, with the highest production in the State for three years, was grazed on irrigated pastures.

The Victorian output of dried vine fruits, viz., currants, sultanas, and lexia raisins, for the 1934 season amounted to approximately 40,000 tons, or 60 per cent. of the total Australian output.

Seasonal conditions during the drying period proved unfavorable to the harvesting of the large crop which was grown in the Irrigation areas, thereby entailing considerable wastage of fruit

It may be mentioned that record shipments of Australian dried fruits were made to the United Kingdom from the previous harvest (1933), and comprised more than 55,000 tons. The whole of these shipments have been sold, thus materially assisting in the disposal of the present season's crop.

The Victorian production of canned apricots, peaches, and pears for the 1934 season amounted to approximately 1,920,000 dozen cans, or 67 per cent. of the total Australian output of these fruits, viz., 2,851,700 dozen cans. This figure represents a material reduction on the previous year's record pack, when some 2,960,000 dozen cans were processed in Victoria alone. The reduced production was in a large measure due to the failure of the peach crop owing to the ravages of the Oriental moth and brown rot, which destroyed large quantities of fruit, thereby entailing severe losses on the growers.

Following upon a period of depressed trade conditions in Great Britain during the latter half of 1933, special efforts were exerted early this year by the Canned Fruits Export Control Board to ensure a more rapid clearance of Australian stocks. As a result, sales in the United Kingdom for the first eight months of this year have reached record proportions, being 2,534,000 dozen cans as compared with the previous highest total of 1,124,000 dozen cans for any prior period of twelve months.

Whilst the prices realized have been on a lower level it is gratifying that canners' export stocks generally have been cleared throughout Australia, thereby paving the way for the absorption of the coming fruit crop.

The Commonwealth Citrus Investigation Committee, on which the Commission has representation, has been engaged on a general survey of the citrus industry with a view to recommending measures to assist and stabilize the industry. The scope of the inquiry has included production methods, means of marketing, and also a search for new outlets for the disposal of Australian citrus fruits.

The bulk of the Committee's work in regard to compilation of information relative to production has been delegated to State Sub-committees, reports from which are to be received at an early meeting of the Committee. The report of the Victorian Sub-committee indicates a decrease in the productive acreage of all varieties of citrus with the exception possibly of grape fruit.

The Committee has also been entrusted with the allocation of the Commonwealth grant of £10,000 to assist mandarin growers. This grant is to be utilized in the form of compensation to growers in consideration of a reduction in the acreage of bearing trees. Victoria is, however, only slightly affected by these proposals, as only a small acreage of mandarins is in bearing, the proportion of compensation allocated to this State being £216.

Those areas in which citrus production has been curtailed are being devoted to other forms of irrigated culture.

### ADMINISTRATION.

### EXTENSIONS AND EXCISIONS.

The Maffra Irrigation District was extended to include some 1,950 acres which had not previously been included in any constituted District.

The Nyah Irrigation Area was increased by the inclusion of 40 acres, of which area 22

acres were added to the Nyah Waterworks District.

The Tyrrell Waterworks District was extended by the inclusion of 332 acres which were

The Tyrrell Waterworks District was extended by the inclusion of 332 acres which were excised from Eureka Waterworks District.

The Mornington Peninsula Waterworks District was extended to embrace an area of 20,200 acres which included the Lysterfield Reservoir and Longwarry Township. This township has been provided with reticulation works and has been proclaimed the Longwarry Urban District.

The boundaries of Pakenham Urban District, within the Mornington Peninsula Waterworks District, and Barwon Heads and Ocean Grove Urban District, within the Bellarine Peninsula Waterworks District, were amended to include additional areas of 100 acres and 200 acres respectively.

An area of 2,400 acres of frontage lands in the parish of Bumbang, adjacent to permanent water in the River Murray or in billabongs, was excised from Coreena Waterworks District.

The extent of the Waterworks District of the Loddon United Waterworks Trust was diminished by the excision of 97,200 acres, following legislation passed by Parliament in December, 1933.

The Avoca Water Trust (the District of which had been administered by the Commission since 1910) was, by Act of Parliament No. 4175, which came into operation on 1st January, 1934, relieved of its loan indebtedness to the State, and was then abolished.

### NEW AND PROPOSED DISTRICTS.

Reticulation works for the supply of Newstead Township have been completed and the township has been proclaimed the Newstead Urban District. The boundaries of this District were subsequently amended to include an additional area of 225 acres, making the total area of the District 1,145 acres.

The Act above mentioned relating to the Avoca Water Trust also constituted the Township of Quambatook the Quambatook Waterworks District, and placed such District under the jurisdiction and control of the Commission. The whole of this District was subsequently proclaimed the Quambatook Urban District.

### 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 £224,500 in the financial year 1934–35. 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 372 as against 500 on 1st January, 1929.

A scheme of re-organization of the Commission's staff was put into operation during the year. This scheme involved the creation, outside of the clerical and accountancy sections of the Commission's work, of twelve divisions in charge of Divisional Officers.

Mr. E. P. Kendall, District Engineer, Maffra Centre, was transferred to Head Office, the vacancy thus caused being filled by the transfer of Mr. I. B. Hughes, District Engineer, Rochester, whose place was taken by Mr. H. E. Harding, previously District Officer, Tongala Centre. A number of other District Engineers were changed from one centre to another.

Mr. S. P. Bromfield, District Engineer and Secretary, Red Cliffs Centre, has been taken over by the Closer Settlement Commission. The vacancy at Red Cliffs was filled by the transfer of Mr. A. R. McConchie, District Engineer and Secretary, Loddon Centre, and Mr. H. H. C. Williams, Engineer, Shepparton Drainage Works, was transferred to the Loddon Centre to fill the vacancy thus caused.

To take charge as Executive Engineer of the important drainage works being carried out in the Red Cliffs and Merbein Districts, Mr. A. W. Johnson was transferred from the Hume Reservoir works to Red Cliffs.

Mr. A. G. Lawson has been transferred from Werrimull Centre to the position of Assistant District Officer at Merbein, the vacancy thus caused being filled by the transfer of Mr. W. H. E. Bentley from Ouyen Centre.

In addition to his duties as District Officer, Tresco Centre, Mr. J. D. Wallis was appointed

to the position of District Secretary and Collector for Mystic Park District.

Mr. E. G. Cameron, from the Tatura Office, has been appointed to the position of District Secretary and Collector, Shepparton Centre, while Mr. H. F. Byham, District Engineer and Secretary, Boort District, was also appointed District Secretary and Collector for the Quambatook Waterworks and Urban Districts.

The Commission records with deep regret the deaths of Mr. A. I. Champion, Head Water Bailiff, Tresco Centre, and Mr. T. Clarricoates, Water Bailiff, Tragowel Plains District.

The following officers have retired or resigned since the publication of the last Report:—Messrs. F. Bassett, O. J. Collis, A. Moller, T. Byrnes, R. S. H. Bickell, H. J. Cooper, R. H. Hetherington, J. Sleeth, W. Mathers, R. H. Fieldew, W. J. Stirling.

### FIRE INSURANCE.

The Commission has continued its policy of carrying the fire risk on its own buildings. The premiums thus saved now amount to £12,044.

# RECEIPTS, DISBURSEMENTS, AND ESTIMATES.

The total receipts for the financial year 1933–34 amounted to £483,412. This is some £10,025 less than the amount collected in 1932–33. In addition to this total a sum of £84,377 was paid to the Treasury by Waterworks Trusts and Local Water Authorities as interest on loans made for water supply purposes. The collections for the year 1933–34 from arrears and current charges are equivalent to 86 per cent. of the year's rates and charges, and the amounts outstanding at 30th June were £693,301. While an appreciable portion of these arrears has been incurred by Closer Settlers within the irrigated areas, the greater part of the amount is owing in Mallee districts by Crown Lessees whose financial position does not justify any expectations of a reduction in the total indebtedness.

The expenditure from the Annual Votes amounted to £237,642 against £265,977 in 1929–30. The Commission desires to again point out that it is not practicable to largely reduce the water supply services throughout the State, and that consequently there is small scope for any considerable reduction on the Annual Votes for maintenance and water distribution. The Loan expenditure on the Commission's works for the year was £311,862 as against £476,452 in the previous year, while a sum of £244,057 was expended from Unemployment Relief Funds for carrying out valuable improvements in connexion with water supply works throughout the State. Full details in respect to the expenditure under these headings are furnished in other portions of this Report.

The collections in the Irrigation Districts amounted to £226,208 as against £238,005 received in 1932–33. The reduction in the collections for the past year may be attributed to the smaller returns from those districts engaged in dried vine fruit production, following decreased yields and lower prices. After debiting the districts with working expenses and interest chargeable, the deficit for the year was £84,685 as against £71,171 in the previous year. The financial position of each district is set out in detail in other portions of this report.

In the Coliban District the collections amounted to £45,290. The loss on this district for the past year amounted to £34,760. In this connexion the Commission wishes to point out that as the rating in the Coliban District is specially limited by the Water Act, the reduction of the deficit must be of a very gradual nature following the general development of the district.

The collections from the Waterworks Districts other than Coliban were £193,526 as against £189,371 received in 1932–33. This division embraces many urban districts where the collections were particularly satisfactory, but in the rural areas of land occupied very largely by Crown Lessees the financial position still continues to be very difficult. After debiting the districts with working expenses and interest charges the deficit for the year was £70,537 as against £40,822 in 1932–33.

There are 112 Waterworks Districts, inclusive of town supplies, and the financial position of each district is set out in detail in other portions of this Report.

In the five Flood Protection Districts controlled by the Commission under the provisions of the Water Act the receipts were £5,608 as against £5,546 in the previous year. After providing for interest, maintenance and management, the loss for the year amounted to £2,339 as against the loss of £1,777 for 1932–33.

The disbursements for the next financial year are estimated at £224,500 as against an estimate of £235,500 for 1933–34. The receipts are estimated at £520,000.

The Loan Liability of the State for Works of Water Supply at the close of the year was £25,246,579. Of this total, £1,265,781 is for Free Headworks declared free by Parliament some 29 years ago; £1,290,615 was written off by Parliament some 35 years ago; £147,046 was advanced to some early-formed Local Authorities and also written off by Parliament: £2,484,618 is represented by River Murray Works; and £6,336,909 by Uncompleted or Unallotted Works, which are not yet revenue producing, details of which are set out separately in the Statement of Loan Liability in the Report. The balance, £13,721,610, 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 Loan amount to £1,070,901, and to this is to be added a sum of £116,655 on account of exchange on London, giving a total of £1,187,556. Of this amount £127,164 is not chargeable to any district, being debitable against Free Headworks and Amounts Written Off, and £116,871 is debitable against River Murray Works, while £298,077 is not at present debitable, being interest on cost of Uncompleted or Unallotted Works which are not yet revenue producing, leaving £645,444 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 £18,515 for non-revenue producing works and services not chargeable to any district) was £329,647, 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 Accounts			741,254	
To which certain Amounts are debited for Pensions by Treasury			8,885	
Exchange debited by Treasury on Interest commitments in London			116,655	
Making a total of				866,794
Included in this is interest and exchange on-				
Capital Written Off 35 years ago (1,290,615)				
Free Headworks declared 29 years ago (1,412,827)				
RIVER MURRAY AGREEMENT WORKS (2,484,618)				
Totalling	٠.,	٠:	$244,\!035$	
Loss on Coliban District where Rate is limited by Water Act in li	_		0.4 7.00	
Writing Off		Q	34,760	
GENERAL SERVICES rendered by Water Commission chargeable to	whole	State	10 515	
(see page 31 of Report)	• •	• •	18,515	907 910
D. L. C. (1	c			297,310
Deducting the above there remains to be accounted for a further sur				569,484
At present there are works under construction from which it is impre-				
Revenue Return until completed or until districts connected with so that Revenue could be collected. These comprise amongst othe				
Reservoirs; Maffra and Sale Irrigation Districts; new Goulburn	Dietri	ota · K	oomoorur	
and Cardinia Flood Protection Districts; and Bellarine, Millewa,				
Stock Schemes. The Interest and Exchange on these would amount				298,077
Leaving still to be accounted for a sum of				271,407
The Interest chargeable to Districts controlled by the Commission is	fixed b	v the W	Cator Act	211,301
at 4 per cent. on nearly all capital, which until recently was suf				
now charged the Commission by the Treasury inclusive of excha				
this represents approximately a sum of				97,257
Leaving after excluding Interest and Exchange on Free Headworks				
River Murray Works, and other Items mentioned				174,150
What Commission was in a sixty and the transfer of the in-				

The Commission again points out that much of the interest charged cannot be debited to water users. This applies to the amount of £1.290.615, representing Capital Written Off 35 years ago; to the expenditure of £1,412.827 on Free Headworks, which were declared free some 29 years ago; and to the expenditure of £2,484,618 on River Murray Agreement Works.

The reason for the exclusion of interest debited to the Commission in respect to Capital Written Off and Free Headworks is obvious and requires no further elaboration by the Commission.

With respect to the River Murray Agreement Works it must be again pointed out that these undertakings were agreed upon by the Federal Government and the States of New South Wales, Victoria, and South Australia in order to adjust difficulties arising in respect to riparian rights and other conflicting claims of the States named. The River Murray Works were thus primarily decided upon in relation to the riparian rights question and were also laid down so as to provide water for navigation and the generation of electric and other power, as well as for irrigation. In regard to these great national works, the Water Commission is acting as the Constructing Authority for the State of Victoria and is discharging a responsibility which might have been delegated by the Victorian Government to some other Department or Government instrumentality.

The Commission wishes to again point out that many large and expensive works have been constructed on a scale to provide for future developments. This is particularly the case in regard to the Glenmaggie Reservoir at Maffra as well as to a number of other storages and main supply works, and until there have been further extensions to the irrigation systems it is not practicable to allot the portion of the liabilities which is fairly debitable to future development.

Attention is also directed to the recurring loss on the Coliban District. In this case the liability includes capital moneys expended some 50 to 60 years ago which are not represented by any tangible assets, and, as already pointed out, the Commission's rating powers in this District are specially limited by the provisions of the Water Act.

Heavy expenditure was incurred during the year in respect to exchange for remitting to London interest on moneys borrowed for water supply purposes. Although the amount (£116,655) shows a reduction on last year's figures, it is still an important factor in creating an

unfavorable position in regard to water supply finance.

For the incoming year the estimated collections of the Commission are £520,000, while the payments of interest by Waterworks Trusts and local bodies are estimated at £84,000. The Commission's Vote expenditure for the year 1934–35 is estimated at £224,500, as against £265,977 expended in 1929–30. It will thus be seen that substantial economies have been effected by the Commission over the last four years.

### RECEIPTS AND DISBURSEMENTS.

STATEMENT of Moneys received and disbursed during the year ended 30th June, 1934.

		exclusive o	ISBURSEMENT f Interest, Reder preciation Charg	mption, and	Exc	ess.
Works.	Receipts.	From Annual Votes and Special Appropriation.	Deduct Capital and Other Disbursements not Chargeable to Districts.	Net Disbursements on Maintenance and Management.	Receipts over Net Disbursements.	Disbursements over Receipts.
•		£ C	£ .	£	£	£
Coliban	45,290	14.217		14,217	31,073	
Other State Works		i '	5			
Broken River		93		93		93
Goulburn	277	3,715		3,715	1	$3,\!438$
Kow Swamp	359	853		853		494
Lake Lonsdale	717	792		792		75
Loddon River		83		83		83
North-West Lakes	242	181		181	61	
Irrigation Districts	226,208	106,749		106,749	119,459	
Waterworks Districts	120,307	67,750	٠	67,750	52,557	
Urban Districts and Divisions	73,219	16,408		16,408	56,811	
Flood Protection Districts	5,008	684		684	1,324	
Other Districts not yet classified \ \\ \Licences, Diversions, Miscellaneous \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	11.785	11,802		11,802		17
	483,412	223,327		223,327	264,285	4,200
Not Recenue Producing-						
River Gauging, Surveys and Re-		n 1100		n ()(()		2 000
ports, New Projects		3.069	• •	3,069	• •	3,069
Waterworks Trusts		1,714		1,714		1,714
Boring for Water, Road Cost of			:			
Clearing, Mallee and Admin- Land Settlement istration		0 202	:	9 595		3,535
Land Settlement   istration   Loan Works	• •	3.535		3,535		5,997
TARIL WORKS		5,997		5,997		3,887
Totals	483,412	237,642		237,642	264,285	18,515
1		olo to most Da			65	00

£500 245,270

### COLIBAN SYSTEM.

STATEMENT of Moneys received and disbursed during the year ended 30th June, 1934: and of Interest charged at the rate of 4 per cent. on Capital Debits (including £41.072 at 5 per cent.).

				,	Disburseme	nts and Interes	Charged.		excess	3.
Dj	strict.		Capital Debit at 30th June, 1931.	Receipts.	Distant-ements.	Interest.	Total,	Receipts over Disbursement and Interes	ts a	isbursements and Interest ver Receipts.
		-	£	<u> </u>	Ľ	£	L	£	:	£
Coliban			1,623,909	13,377	12,723	65,222	77,945			34,568
Axe Creek			1,750	101	360	70	430			29
Harcourt			11,040	1,366	1,084	112	1,526			160
Marong		'	2,100	146	65	84	149			3
	Totals			45,290	14,232	65,818	80,050			34,760

### FLOOD PROTECTION DISTRICTS.

STATEMENT of Moneys received and disbursed from 1st July, 1920, to 30th June. 1934; and of Interest charged at the rate of 4 per cent. on Capital Debits (including £508 at 5 per cent.); and also of Depreciation and Redemption charged as at 30th June, 1934.

### RECEIPTS.

		2.02.7.02.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.			
			1933-34.		Grane Total
District.	1st July, 1920, to 80th June, 1933.	Cha <b>r</b> ge.	Interest and Miscellaneous.	Total.	at 30th June, 1934.
	1	£	£	£	£
1. Cardinia	18,399	1,328	47	1,375	19,774
2. Echuca	1.504	66		66	1,570
3. Kanyapella	1,963	141	18	159	2,122
1. Loch Garry	6,988	825	58	883	7,871
5. Lower Kooweerup	42,666	2,409	116	2,525	45,191
Totals	71,520	4.769	239	5,008	76,528

Totals . 71,520 4.769 239 5,008 76
DISBURSEMENTS, AND INTEREST, DEPRECIATION, AND REDEMPTION CHARGED.

		DISI	URSEME	NTS.		INT	EREST CHA	RGED.		
District.	1st July 1920, to 30th June, 1933.	Repairs and Mainten- ance.	Manage- ment.	Total.	Total at 30th June, 19 <b>3</b> 4.	1st July, 1920, to 30th June, 1933.	1st July, 1933, to 30th June, 1934.	Total at 30th June, 1934.	(A) DEPRECIATION. (B) REDEMPTION.	Grand Total at 30th June, 1934,
	£	ť	Ľ	£	£	3.	£	Ľ	E	£
1. Cardinia	 4,176	32	138	170	4,646	18,328	1,800	20,128		24,774
2. Echuca	 947	78	27	105	1,052	573	47	620		1,672
<ol> <li>Kanyapella</li> </ol>	 . 881	35	35	70	951	1,162	162	1,324		2,275
4. Loch Garry	 -1,491	64	59	123	1,614	3,832	454	4.286	(B) 1,200	7,100
5. Lower Kooweerup	7,512	40	176	216	7,728	40,968	4,000	44,968		52,696
Totals	 15.307	249	435	684	15,991	64,863	6,463	71,326	(B) 1,200	88,517

### IRRIGATION AND WATER SUPPLY DISTRICTS.

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June. 1934; and of Interest charged at the rate of 4 per cent. on Capital Debits (including £214,075 at 4½ and 5 per cent.); and also of Depreciation and Redemption charged, as at 30th June, 1934. (Free Headworks excluded.)

RECEIPTS.

							1933-34.			Grand
Distr	rict.			1st May, 1906, to 30th June, 1933.	Rates.	Compulsory Irrigation Charge.	Water Sales.	Interest and Miscel- laneous.	Total.	Total at 30th June, 1934.
•				£	£	£	£	£	£	£
1. Bacchus Marsh				106,211	768	3,755	610	45	5,178	111,389
2. Boort	٠.			79,725	1,453		2,471	50	3,974	83,699
3. Calivil				12,085	579	[	866	79	1,524	13,609
4. Campaspe				20,565	587	l l	60	9	656	21,221
5. Cohuna				210,886	1,579	5,208	713	203	7,703	218,589
6. Deakin				113,028	3,029		616	118	3,763	116,791
7. Dingee				33,162	79	1,025	108	109	1,321	34,483
8. Echuca North				20,069	228	1,243	190	137	1,798	21,867
9. Fish Point				4,879	52	657	69	98	876	5,755
10. Gannawarra			• • •	172,499	1.197	4,737	424	270	6,628	179,127
11. Katandra			• •	5,521	139		605	1 10	754	6,275
12. Kerang			• •	138,717	1,758	[	2,774	151	4.683	143,490
13. Koondrook			• •	141,282	1,091	2,929	237	389	4,646	145,928
14. Leitchville	• •	• • •	• •	16,458	641	1,287	625	42	$\frac{4,040}{2.595}$	19.053
15. Maffra-Sale	• •	••	• •	49,084	2.315	7,533	1.586	522	$\frac{2,355}{11.956}$	61,040
10 Manhain	• •	• •	• •	398,545	$\frac{2,510}{1,553}$	19,347	665	774	$\frac{11,330}{22,339}$	420,884
17. Mystic Park	• •	••		10,673	1,555	450	71	73	22,339 744	11,417
18. North Shepparton	• •	••	• •	14,494	2.027	4:50				
10 M1	• •	••	• •	120,119	366	0.7700	1,271	79	3,377	17,871
on Dad Olive	• •	• •	• •			8,760	214	599	9,939	130,058
	• •	• •	• •	313,968	1,080	31,128	210	511	32,929	346,897
	• •	• •	• •	297,249	2,840	14,238	3,102	1,043	21,223	318,472
22. Rodney	• •	• •	• •	585,131	6,038	16,410	3,542	703	26,693	611,824
23. Shepparton	• •		• •	138,966	1,665	5,273	302	454	7,694	146,660
24. South Shepparton	• •	• •		17,487	767	1,833	102	149	2,851	20,338
25. Stanhope	• •			64,988	507	1,893	310	153	2,863	67,851
26. Swan Hill				156,229	1,150	5,499	2,017	489	9,155	165,384
27. Third Lake	• •			7,359	112	556	32	123	823	8,182
28. Tongala				132,210	1,010	4,233	485	277	6,005	138,215
29. Tragowel Plains				267,246	1,854	10,220	1,004	607	13,685	280,931
30. Tresco				23,447		562	82	23	667	24,114
31. Werribee	••	• •	••	98,049	774	3,980	1,704	708	7,166	105,215
Totals				3,770,331	37,388	152,756	27,067	8,997	226,208	3,996,539

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

			DIS	BURSEM	ENTS.		INTE	REST CHA	RGED,	ON.	}
	3.;		1933-	-34.			03.5	3.4		TIO	
District.	1st May, 1906, to 30th June, 1933.	Kepairs and Maintenance.	Distribution of Water.	Manage- ment.	Total.	Total at 30th June, 1934.	1st May, 1998.to 30th June, 1:333.	1st July, 1933, to 30th June, 1934.	Total at 30th June, 1934.	(A) DEPRECIATION (B) REDEMPTION.	Grand Total at 30th June, 1934.
1. Bacchus Marsh 2. Boort 3. Calivil 4. Campaspe 5. Cohuna 6. Deakin 7. Dingee 8. Echuca North 9. Fish Point 10. Gannawarra 11. Katandra 12. Kerang 13. Koondrook 14. Leitchville 15. Maffra-Sale 16. Merbein 17. Mystic Park 18. North Shepparton 19. Nyah 20. Red Cliffs 21. Rochester 22. Rodney 23. Shepparton 24. South Shepparton 25. Stanhope 26. Swan Hill 27. Third Lake 28. Tongala 29. Tragowel Plains 30. Tresco	£ 24,183 38,665 4,909 12,071 119,321 42,788 17,130 8,398 3,972 89,961 2,639 74,402 81,176 6,383 19,390 287,563 7,920 3,737 93,590 180,147 126,744 236,207 49,714 3,703 29,816 83,243 2,109 55,929 104,987 32,619	£ 154 637 684 151 756 390 250 202 129 653 88 1,155 1,275 397 1,498 723 122 156 399 2,149 2,531 2,849 562 80 524 1,681 116 1,191 1,631 439	£ 859 832 555 424 1,226 445 545 515 334 1,062 558 1,596 1,369 653 2,113 13,197 1,024 3,858 17,835 4,945 7,502 1,827 246 1,518 1,452 212 1,566 2,884 1,828	£ 220 401 49 58 318 221 27 95 61 277 82 445 238 168 614 391 16 544 529 678 933 740 64 206 6552 43 517 4116	£ 1,233 1,870 1,288 633 2,300 1,056 822 812 524 1,992 728 3,196 2,882 1,218 4,225 14,311 402 1,296 4,801 20,513 8,154 11,284 3,129 390 2,248 3,685 371 3,274 4,927 2,383	£ 25,416 40,535 6,197 12,704 121,621 43,844 17,952 9,210 4,496 91,953 3,367 77,598 84,058 7,601 23,615 301,874 8,322 5,033 98,391 200,660 134,898 247,491 52,843 4,093 32,064 86,928 2,480 59,203 109,914 35,002	£ 92,573 39,167 16,777 11,549 92,638 75,589 21,972 14,253 3,929 81,489 16,208 63,284 101,416 10,143 31,670 121,645 5,917 28,027 56,188 126,308 213,906 400,056 126,126 15,385 47,717 77,752 7,697 120,492 191,136 34,259	£ 5,917 3,993 4,417 496 6,376 3,315 1,226 6,621 5,749 4,243 4,654 7,329 1,671 7,950 8,332 694 7,726 4,078 18,200 16,110 25,542 9,974 2,742 5,099 6,716 1,000 8,526 14,089 3,654	£ 98,490 43,160 21,194 12,045 99,014 78,904 23,198 15,890 4,550 87,238 20,451 67,938 108,745 11,814 39,620 129,977 6,611 35,753 60,266 144,508 230,016 425,598 136,100 18,127 52,816 84,468 8,697 129,018 230,05,225 37,913	£ (B)1,400 (A)9,010 (A)5,694 (B)2,700 (A) 450 (A)4,501 (A)18,268 (A)4,537 (A)15,000 (A)4,768 (A)4,768	£ 123,906 85,095 27,391 24,749 229,645 122,748 41,150 25,100 9,046 184,885 23,818 148,686 197,304 19,415 63,235 450,119 14,933 40,786 163,194 360,168 364,914 673,089 188,943 22,220 84,880 176,164 11,171 188,227 315,139
30. Tresco 31. Werribee	17,651	83	498	221	802	18,453	86,040	9,248	95,288	::	72,915 113,741
Totals	1,861,067	23,655	73,675	9,419	106,749	1,967,816	2,331,308	201,324	2,532,632	66,328	4,566,776

WATERWORKS DISTRICTS.

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, 1934; and of Interest charged at the rate of 4 per cent. on Capital Debits (including £275,855 at 4½ and 5 per cent.); and also of Depreciation and Redemption charged, as at 30th June, 1934. (Free Headworks excluded.)

and also of Depression an		1		EIPTS.	-	•		,
	-		l		193	3 -34.		
District.			1st May, 1906, to 30th June, 1933.	Rates.	Water Sales.	Interest and Miscel- ianeous.	Total.	Grand Total at 30th June, 1934.
			£	£	£	£	£	£
1. Bellarine Peninsula			3,199	3,500	258	38	3,796	6,995
2. Birchip			1)	(4,522	40	344	4,906	וו ו
3. Sea Lake			500 405	6,508	76	508	7,092	E9E 000
4. Tyrrell			506,495	7,881	116	1,505	9,502	<b>→</b> 535,988
5. Wycheproof				7,468	91	434	7,993	IJ
6. Carwarp			12,485	467		140	607	13,092
7. Carwarp Central			1,153	10		18	28	1,181
8. Dering			3,304	935		143	1,078	4,382
9. Eureka			1,573	85		62	147	1,720
10. Hindmarsh			5,198	1,523		100	1,623	6,821
11. Karkarooc			211,211	11,684		591	12,275	223,486
12. Kerang North-west Lakes			3,205	145	2	9	156	3,361
13. Kia			2,075	301		44	345	2,420
14. Long Lake			168,822	8,467		583	9,050	177,872
15. Millewa			11,188	1,083	75	707	1.865	13,053
16. Millewa Central			6,951	365		251	616	7,567
17. Mornington Peninsula			49,080	3,000		53	3,053	52,133
18. Narre Warren			1,883	64	122	27	213	2,096
19. Tyntynder			95,134	3,689		453	4,142	99,276
20. Upper Western Wimmera			78,313	4,570		210	4.780	83,093
21. Upper Wimmera United			129,239	7,394		326	7,720	136,959
22. Walpeup Central			1,391	1,010		104	1,114	2,505
23. Walpeup West			28,130	1,199	25	173	1,397	$29,\!527$
24. Werribee			9,344	692	5	36	733	10,077
25. Western Wimmera			273,670	12,749	3,198	465	16,412	290,082
26. Wimmera United			307,922	17,517	948	805	19,270	327,192
27. Yelta			5,242	331	38	25	394	5,636
Totals			1,916,207	107,159	4,994	8,154	120,307	2,036,514

Disburseme	INTS, A	TNI GI	EREST	, Der	RECIA	TION, AN	D REDE	MPTION	Chargei	),	
		D	ISBURS	EMEN'	rs.		INTER	EST CHA	RGED.	) X.	
	3. to		1933	-34.						TATI	+ <u>4</u>
District.	1st May, 1906, to 30th June, 1933.	Repairs and Maintenance.	Distribution of Water.	Management.	Total.	Total at 30th June, 1934.	1st May, 1906, to 30th June, 1933.	1st July, 1933, to 30th June, 1934.	Total at 30th June, 1934.	(A) DEPRECIATION (B) REDEMPTION.	Grand Total at 30th June, 193
1. Bellarine Peninsula 2. Birchip; 3. Sea Lake;	£ 53 265,322	£ 9 13,676	£ 26 4,348	£ 16 923	£ 51 18,947	£ 104 284,269	£ 3,146 345,502	£ 3,146 27,745	£ 6,292 <b>373,</b> 247	£	£ 6,39 <b>6</b> 657,516
4. Tyrrell; 5. Wycheproof 6. Carwarp 7. Carwarp Central	23,796 1,271 1,956 2,669 1,649 84,129 2,033 2,297 100,705 22,354 6,494 6,737 263 65,635 29,513	1,398 20 234 52 240 2,689 39 213 2,083 5,052 151 301 14 3,476 311	3,990 132 95 114 67 1,233 52 93 1,438 10,235 2,337 170 6 699 495	46 23 27 22 42 362 40 22 257 302 95 59 7 183 88	5,434 175 356 188 349 4,284 131 328 3,778 15,589 2,583 530 27 4,358 894	29,230 1,446 2,312 2,857 1,998 88,413 2,164 2,625 104,483 37,943 9,077 7,267 290 69,993 30,407	14,847 886 3,242 1,246 4,042 147,296 1,563 1,230 80,686 10,730 8,000 8,000 2,367 85,988 42,204	1,631 94 410 222 835 11,915 82 582 6,662 5,380 4,000 2,720 411 10,163 3,978	16,478 980 3,652 1,468 4,877 159,211 1,645 1,812 87,348 16,110 12,000 42,710 2,779 96,151 46,182	(A) 586 (A) 20  (A) 560  (A)8,305  (A) 606 (B)1,500	46,294 2,446 5,964 4,325 7,435 247,624 3,809 4,437 200,136 54,035 21,077 49,977 3,069 166,144 78,695
21. Upper Wimmera United 22. Walpeup Central 23. Walpeup West 24. Werribee 25. Western Wimmera	$\begin{array}{c} 40,003 \\ 1,074 \\ 20,971 \\ 2,813 \\ 118,696 \end{array}$	702 97 191 10 1,199	556 452 104 1,954	204 47 98 38 347	1,462 596 289 152 3,500	41,465 1,670 21,260 2,965 122,196	85,863 2,142 15,096 8,367 138,871	6,405 1,329 1,479 598 14,659	92,268 3,471 16,575 8,965 153,530	(A)1,200 (A)2,422 (B)5,400	136,123 5,141 89,035 11,930 283,548
26. Wimmera United 27. Yelta	98,600 4,584	1,637 106	1,294 189	479 44	3,410 339	102,010 4,923	193,155 2,786	16,136 249	209,291 3,035	(в)5,310	316,611 7,958
Totals	903,617	33,900	30,079	3,771	67,750	971,367	1,239,245	120,832	1,360,077	28,299	2,359,743

# DISTRICTS HELD IN TRUST BY THE COMMISSION.

STATEMENT OF RECEIPTS AND DISBURSEMENTS FOR THE YEAR ENDED 31ST DECEMBER, 1933. RECEIPTS.

	Bank Balance	,	193	38.	·	Grand Total
Name of Trust.	at 31st December, 1932.	Rates.	Water Sales.	Interest and Miscellaneous	Total.	fer Year 1933.
	£	£	£	£	£	£
Avoca	Cr. 24	549	76	25	650	674
Avoca (Quambatook, Urban)	Cr. 65	528	42	12	582	647
Carrum	Dr. 666	1,655		482	2,137	1,471
Loddon United	Dr. 565	1,646	10	20	1,676	1,111
Loddon United (Mitiamo, Urban)	Dr. 91	120	238	2	360	269
Totals	Cr. 89 Dr. 1,322	} 4,498	366	541	5,405	4,172

		D.	PROKSE	HENTS.				
				1933.			Grand	Bank Balance
Name of Trust.	Repairs and Maintenance.	Water Distribution.	Manage- ment.	Total.	Interest.	(A) Depreciation (B) Redemption.	Total for Year 1933.	carried forward 1st January, 1934.
	£	£	£	£	£	£	£	£
Avoca	178		94	272	131	в 121	524	Cr. 150
Avoca (Quambatook, Urban)	116	123	39	278	158	$\begin{bmatrix} \mathbf{A} & 60 \\ \mathbf{B} & 42 \end{bmatrix}$	538	Cr. 109
Carrum	524		164	688	1,112	в 284	2,084	Dr. 613
Loddon United	395	675	280	1,350	470	в 361	2,181	Dr. 1,070
Loddon United (Mitiamo, Urban)	100	••	21	121	211	$\begin{bmatrix} A & 28 \\ B & 21 \end{bmatrix}$	381	Dr. 112
Totals	1,313	798	598	2,709	2,082	917	5,708	Cr. 259 Dr. 1,795

URBAN DISTRICTS

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, £88,532 at  $4\frac{1}{4}$  and 5 per cent.); and also of Depreciation and Redemption charged, RECEIPTS.

District or Division					1-4 16-		1933	-34,		
1. Antworp	District or D	dvision.			to 30th June,	Rates.	Water Sales.	Miscel-	Total.	Grand Total at 30t June, 1934
2. Bacedus Marsh	1 Antonom									£
5. Berwick	2. Bacchus Marsh	 I Ocea	n Grove		31,917	1,315	438	22	1,775	345 33,692 1,840
6. Benlah 6. Benlah 7. Birchip 7. Birchip 8. Bittern 1.275 8. Bittern 1.275 1.14 4.3 1.100 8. Bittern 1.275 8. Bitte	- T									4,353
8. Bittern	6. Beulah					416				6,337 11,237
9. Brim 10. Banyip 11. Carrum 16.2549 1307 1307 131. Carlum 16. Carvar 16. Carvar 16. Carvar 17. Carabopok 18. Carvar 18. Chillingollah 19. Say 19. Sa	0 D:44									23,382 1,435
11. Carvam	9. Brim									2,958
12. Carwarp				• •						1,236
13. Chilingollah	12. Carwarp					,	i	1		73,688
15. Cohuna	13. Chillingollah				.,		!			1,123
16. Corop	14. Chinkapook 15. Cohuna					.,				1,276 15,336
18. Crip Point	16. Corop				688			1	30	718
19. Collgoa										6,895 1,910
21. Dimpoola   39,812   1,321   555   154   2,030	19. Culgoa					291	138	33		4,704
22. Dingec   706   88										58,742 41,842
23. Docen										798
25. Garfield	23. Dooen					28	11	3	42	155
29. Hastings	AF (1 ( ) )						i			46,830 946
28. Hicksborough	26. Hastings									2,103
29. Hopetom										1,632
15,424   S38   116   49   1,003	29. Hopetoun						145			331 14,4 <b>3</b> 7
32. Koondrook	30. Jeparit				15,424	838	116		1.003	16.427
33   Lake Boga										2,377 8,551
35	33. Lake Boga									7,391
37. Lockington		• •						1		3,317
37. Lockington										$\frac{2,883}{3,417}$
39. Marnoc   2,597   305   68   14   387					2,270	327	8	32	367	2,637
40. Merbein		• •								5,238 2,984
15,829	40. Merbein									16,110
44. Mount Martha         3,135         635         40         19         694           45. Murrabit         222         90         3         93           46. Nandaly         955         210         15         225           47. Natimuk         11,633         291         193         71         555           48. Newstead         223         1         74         298           49. North Wonthaggi         2,446         320         7         327           50. Nullawii         1,272         432         2         31         465           51. Nyah         1,362         100         3         2         105         727           52. Nyah West         6,306         640         72         15         727         73         30         1,957         74         248         1225         609         123         1,957         74         426         219         22         16         257         75         74         74         428         42         62         76         74         1,057         74         74         22         15         72         72         75         75         75         74         74         74 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>80</td> <td></td> <td>V -</td> <td>802 17,039</td>							80		V -	802 17,039
44. Mount Martha         3,135         635         40         19         694           45. Murrabit         222         90         3         93           46. Nandaly         955         210         15         225           47. Natimuk         11,633         291         193         71         555           48. Newstead	43. Mornington				29,608	2,668	329	190	3.187	32,795
46. Nandaly       955       210       15       225         47. Natimuk       11,633       291       193       71       555         48. Newstead       223       1       74       298         49. North Wonthaggi       2,446       320       7       327         50. Nullawil       1,272       432       2       31       465         51. Nyah       1,362       100       3       2       105         52. Nyah West       6,306       640       72       15       727         53. Ouven       23,489       1,225       609       123       1,957         54. Pakenham       5,460       559       493       19       1,101         55. Patchewollock       746       219       22       16       257         54. Pakenham       5,460       559       493       19       1,101         55. Patchewollock       746       219       22       16       257         54. Pakenham       5,560       193       18       19       1,101         55. Patchewollock       746       219       22       16       257         54. Pakenham       5,560       138 <t< td=""><td>44. Mount Martha</td><td></td><td></td><td></td><td>3,135</td><td>635</td><td></td><td>19</td><td>694</td><td>3,829</td></t<>	44. Mount Martha				3,135	635		19	694	3,829
47. Natimuk       11,633       291       193       71       555         48. Newstead       233       1       74       298         49. North Wonthaggi       2,446       320       7       327         50. Nullawil       1,272       432       2       31       465         51. Nyah       1,362       100       3       2       105         52. Nyah West       6,306       640       72       15       727         53. Ouyen       23,489       1,225       609       123       1,957         54. Pakenham       5,460       589       493       19       1,101         55. Patchewollock       746       219       22       16       257         54. Pyramid Hill       4,235       358       154       18       530         57. Pyramid Hill       4,130       565       20       42       627         58. Quambatook       1       133       18       41       192         59. Queenseliff and Point Lonsdale       1,700       3,280       38       116       3,434         60. Rainbow       20,014       863       186       72       1,21         61. Red Cliffs										315 1,180
49. North Wonthaggi       2,446       320       7       327         50. Nullawil       1,272       432       2       31       465         51. Nyah       1,362       100       3       2       105         52. Nyah West       6,306       640       72       15       727         53. Ouyen       23,489       1,225       609       123       1,957         54. Pakenham       5,460       589       493       19       1,101         55. Patchewollock       746       219       22       16       257         56. Piangil       4,235       358       154       18       530         57. Pyramid Hill       4,130       565       20       42       627         58. Quambatook       .       133       18       41       192         59. Queenseliff and Point Lonsdale       1,700       3,280       38       116       3,434         60. Rainbow       20,014       863       186       72       1,121         61. Red Cliffs       12,834       1,404       153       82       1,639         62. Rupanyup       13,761       993       43       86       1,122	47. Natimuk					291	193	71	555	12,188
50. Nullawil       1,272       432       2       31       465         51. Nyah       1,362       100       3       2       105         52. Nyah West       6,306       640       72       15       727         53. Ouyon       23,489       1,225       609       123       1,957         54. Pakenham       5,460       589       493       19       1,101         55. Patchewollock       746       219       22       16       257         56. Piangil       4,235       358       154       18       530         57. Pyramid Hill       4,130       565       20       42       627         58. Quambatook       .       .       133       18       41       192         59. Queenscliff and Point Lonsdale       1,700       3,280       38       116       3,434         60. Bainbow       20,014       863       186       72       1,121         61. Red Cliffs       12,834       1,404       153       82       1,639         62. Rupanyup       13,761       993       43       86       1,122         63. Sea Lake       16,554       867       318       124 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td>298 2,773</td></t<>							1			298 2,773
52. Nyah West         6,306         640         72         15         727           53. Ouyen         23,489         1,225         609         123         1,957           54. Pakenham         5,460         589         493         19         1,101           55. Patchewollock         746         219         22         16         257           56. Piangil         4,235         358         154         18         530           57. Pyramid Hill         4,130         565         20         42         627           58. Quambatook         .         133         18         41         192           59. Queenscliff and Point Lonsdale         1,700         3,280         38         116         3,434           60. Rainbow         20,014         863         186         72         1,121           61. Red Cliffs         12,834         1,404         153         82         1,639           62. Rupanyup         13,761         993         43         86         1,122           63. Sea Lake         16,554         867         318         124         1,309           64. Somerville         2,687         230         78         3         3	50. Nullawil		• • •							1,737
53. Ouven         23,489         1,225         609         123         1,957           54. Pakenham         5460         589         493         19         1,101           55. Patchewollock         746         219         22         16         257           56. Piangil         4,235         358         154         18         530           57. Pyramid Hill         4,130         565         20         42         627           58. Quambatook         .         133         18         41         192           59. Queenscliff and Point Lonsdale         1,700         3,280         38         116         3,434           60. Rainbow         20,014         863         186         72         1,121           61. Red Cliffs         12,834         1,404         153         82         1,639           62. Rupanyup         13,761         993         43         86         1,122           63. Sea Lake         16,554         867         318         124         1,309           64. Somerville         2,687         230         78         3         311           65. South Frankston         13,274         1,478         273         28										1,467
54. Pakenham         5,460         589         493         19         1,101           55. Patchewollock         746         219         22         16         257           56. Piangil         4,235         358         154         18         530           57. Pyramid Hill         4,130         565         20         42         627           58. Quambatook         .         133         18         41         192           59. Queenscliff and Point Lonsdale         1,700         3,280         38         116         3,434           60. Rainbow         20,014         863         186         72         1,121           61. Red Cliffs         12,834         1,404         153         82         1,639           62. Rupanyup         13,761         993         43         86         1,122           63. Sea Lake         16,554         867         318         124         1,309           64. Somerville         2,687         230         78         3         311           65. South Frankston         13,274         1,478         273         28         1,779           66. Speed         815         323         9         26 <td< td=""><td>53. Ouyen</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>7,033 25,446</td></td<>	53. Ouyen									7,033 25,446
56. Piangil       4,235       358       154       18       530         57. Pyramid Hill       4,130       565       20       42       627         58. Quambatook       .       .       133       18       41       192         59. Queenseliff and Point Lonsdale       1,700       3,280       38       116       3,434         60. Rainbow       20,014       863       186       72       1,121         61. Red Cliffs       12,834       1,404       153       82       1,639         62. Rupanyup       13,761       993       43       86       1,122         63. Sea Lake       16,554       867       318       124       1,309         64. Somerville       2,687       230       78       3       311         65. South Frankston       13,274       1,478       273       28       1,779         66. Speed       815       323       9       26       358         67. Spring Vale       17,136       2,334       243       142       2,719         68. Stanhope       1,527       270       12       282         69. Tempy       720       190       10       30       230 </td <td>54. Pakenham</td> <td></td> <td></td> <td></td> <td>5,460</td> <td>589</td> <td>493</td> <td>19</td> <td>1,101</td> <td>6,561</td>	54. Pakenham				5,460	589	493	19	1,101	6,561
57. Pyramid Hill         4,130         565         20         42         627           58. Quambatook										1,003 4,765
59. Queenseliff and Point Lonsdale         1,700         3,280         38         116         3,434           60. Rainbow         20,014         863         186         72         1,121           61. Red Cliffs         12,834         1,404         153         82         1,639           62. Rupanyup         13,761         993         43         86         1,122           63. Sea Lake         16,554         867         318         124         1,309           64. Somerville         2,687         230         78         3         311           65. South Frankston         13,274         1,478         273         28         1,779           66. Speed         815         323         9         26         358           67. Spring Vale         17,136         2,334         243         142         2,719           68. Stanhope         1,527         270         12         282           69. Tempy         720         190         10         30         230           70. Ultima         7,853         575         37         51         663           71. Waitchie         621         47         5         52           Watchem </td <td>57. Pyramid Hill</td> <td></td> <td>• •</td> <td></td> <td></td> <td>565</td> <td>20</td> <td>42</td> <td>627</td> <td>4,757</td>	57. Pyramid Hill		• •			565	20	42	627	4,757
61. Red Cliffs       12,834       1,404       153       82       1,639         62. Rupanyup       13,761       993       43       86       1,122         63. Sea Lake       16,554       867       318       124       1,309         64. Somerville       2,687       230       78       3       311         65. South Frankston       13,274       1,478       273       28       1,779         66. Speed       815       323       9       26       358         67. Spring Vale       17,136       2,334       243       142       2,719         68. Stanhope       1,527       270       12       282         69. Tempy       720       190       10       30       230         70. Ultima       7,853       575       37       51       663         71. Waitchie       621       47       5       52         72. Watchem       5,843       376       20       70       466         73. Werrimull       1,869       309       6       4       319         74. Woothaggi       87,519       2,062       1,777       25       3,864         75. Woomelang       13,95			onsdale		1,700					192 5,134
62. Rupanyup       13,761       993       43       86       1,122         63. Sea Lake       16,554       867       318       124       1,309         64. Somerville       2,687       230       78       3       311         65. South Frankston       13,274       1,478       273       28       1,779         66. Speed       815       323       9       26       358         67. Spring Vale       17,136       2,334       243       142       2,719         68. Stanhope       1,527       270       12       282         69. Tempy       720       190       10       30       230         70. Ultima       7,853       575       37       51       663         71. Waitchie       621       47       5       52         72. Watchem       5,843       376       20       70       466         73. Werrimull       1,869       309       6       4       319         74. Wonthaggi       87,519       2,062       1,777       25       3,864         75. Woomelang       13,953       443       248       62       753         76. Woorinen       863										21,135
63. Sea Lake       16,554       867       318       124       1,309         64. Somerville       2,687       230       78       3       311         65. South Frankston       13,274       1,478       273       28       1,779         66. Speed       815       323       9       26       358         67. Spring Vale       17,136       2,334       243       142       2,719         68. Stanhope       1,527       270       12       282         69. Tempy       720       190       10       30       230         70. Ultima       7,853       575       37       51       663         71. Waitchie       621       47       5       52         72. Watchem       5,843       376       20       70       466         73. Werrimull       1,869       309       6       4       319         74. Wonthaggi       87,519       2,062       1,777       25       3,864         75. Woomelang       13,953       443       248       62       753         76. Woorinen       863       100       100       100         77. Wycheproof       16,352       986					12,834					14,473 14,883
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	63. Sea Lake				16,554	867	318	124	1,309	17,863
66. Speed       815       323       9       26       358         67. Spring Vale       17,136       2,334       243       142       2,719         68. Stanhope       1,527       270       12       282         69. Tempy       720       190       10       30       230         70. Ultima       7,853       575       37       51       663         71. Waitchie       621       47       5       52         72. Watchem       5,843       376       20       70       466         73. Werrimull       1,869       309       6       4       319         74. Wonthaggi       87,519       2,062       1,777       25       3,864         75. Woomelang       13,953       443       248       62       753         76. Woorinen       863       100       100       100         77. Wycheproof       16,352       986       189       116       1,291										2,998 15,053
67. Spring Vale       17,136       2,334       243       142       2,719         68. Stanhope       1,527       270       12       282         69. Tempy       720       190       10       30       230         70. Ultima       7,853       575       37       51       663         71. Waitchie       621       47       5       52         72. Watchem       5,843       376       20       70       466         73. Werrimull       1,869       309       6       4       319         74. Wonthaggi       87,519       2,062       1,777       25       3,864         75. Woomelang       13,953       443       248       62       753         76. Woorinen       863       100       100       100         77. Wycheproof       16,352       986       189       116       1,291	66. Speed				815	323	9		358	1.173
69. Tempy     720     190     10     30     230       70. Ultima     7,853     575     37     51     663       71. Waitchie     621     47     5     52       72. Watchem     5,843     376     20     70     466       73. Werrimull     1,869     309     6     4     319       74. Wonthaggi     87,519     2,062     1,777     25     3,864       75. Woomelang     13,953     443     248     62     753       76. Woorinen     863     100     100     100       77. Wycheproof     16,352     986     189     116     1,291									2,719	19,855
70. Ultima     7,853     575     37     51     663       71. Waitchie     621     47     5     52       72. Watchem     5,843     376     20     70     466       73. Werrimull     1,869     309     6     4     319       74. Wonthaggi     87,519     2,062     1,777     25     3,864       75. Woomelang     13,953     443     248     62     753       76. Woorinen     863     100     100       77. Wycheproof     16,352     986     189     116     1,291										1,809
72. Watchem       5,843       376       20       70       466         73. Werimull       1,869       309       6       4       319         74. Wonthaggi       87,519       2,062       1,777       25       3,864         75. Woomelang       13,953       443       248       62       753         76. Woorinen       863       100        100         77. Wycheproof       16,352       986       189       116       1,291	70. Ultima				7,853	575		51	663	8,516
73. Werrinull     1,869     309     6     4     319       74. Wonthaggi     87,519     2,062     1,777     25     3,864       75. Woomelang     13,953     443     248     62     753       76. Woorinen     863     100     .     100       77. Wycheproof     16,352     986     189     116     1,291										6,309
74. Wonthaggi	73. Werrimull				1,869	309	6		319	2,188
76. Woorinen						,				91,383
77. Wycheproof								62		14,706 963
	77. Wycheproof		٠,		16,352	986			1,291	17,643
78. Yaapeet	75. xaapeet	• •	• •	• •	432	130		14	1-1-4	376

# AND DIVISIONS

1934; and of Interest charged, at the rate of 4 per cent. on Capital Debits (including as at 30th June, 1934. (Free Headworks excluded).

DISBURSEMENTS, AND INTEREST, DEPRECIATION, AND REDEMPTION CHARGED.

MISSURGEMEN	15, A		DISRU	RSEMEN'	rs.		INTER	EST CHA	RGED.	ż	-,
	چ <sub>ن</sub> د		1933-3	1.		.,		to 34.		TION	<del>4</del>
District or Division.	lst May, 1906, to 30th Jane, 1933.	Repairs and Maintenance.	Distribution of Water.	Management.	Total.	Total at 30th June, 1934.	1st May, 1906, to 30th June, 1933,	1st July, 1953, to 30th June, 1934,	Total at 30th June, 1934.	(a) DEPRECIATION (b) REDEMPTION	Grand Total at 30th June, 1934
1 Antonio	£	£	£ 12	£ 15	£ 35	£ 123	£ 121	£ 54	€ 175	(a) £ 15	£ 313
1. Antwerp 2. Bacchus Marsh 3. Barwon Heads and Ocean Grove	7.373 64	15	175 70	122 75	300 1 <b>6</b> 0	7,673 224	24,166 50	1,529 1,650	25,695 1,700		34,054 1,924
4. Berriwillock	1,943 686	96 128	44 34	34 26	$\begin{array}{c} 174 \\ 188 \end{array}$	2,117 $874$	2,080 4,744	222 665	2,302 5,409		<b>4,4</b> 89 <b>6,283</b>
6. Beulah 7. Birchip.	4,595 9,930	10 25	189	26 73	$\frac{225}{264}$	4,820 10,194	5,659 $11,147$	375 797	6,034 11,944	(a) 84 $(a, b)1.072$	10,938 $23,210$
s. Bittern	160 594	$\frac{10}{29}$	6 24	5 25	$\frac{22}{78}$	$182 \\ 672$	1,189 1,604	$\frac{150}{291}$	1,339 $1,895$	(a) $189$	$1,521 \\ 2,756$
10. <b>Buny</b> ip	$122 \\ 10,358$	37 750	333	$\begin{array}{c} 20 \\ 352 \end{array}$	76 <b>1,43</b> 5	198 $11,793$	822 57,740	$\frac{411}{6,500}$	1,233 $64,240$		1,431 $76,033$
11. Carrum 12. Carwarp	10,350 106 451	5, 8	5 12	9	19 36	125 487	126 996	$\begin{array}{c} 26 \\ 149 \end{array}$	$152 \\ 1,145$		422 1,792
13. Chillingollah 14. Chinkapook	204	}1;	29 61	21 71	$\frac{61}{224}$	265 4,191	505 9,411	243 788	748 10,199	(a) 265	1,278 15,209
15. Cohuna 16. Corop	3,967 340		5	6	13 98	353 959	349 6,152	14 368	363 6,520		773 7,479
17. Cranbourne	861 209	33 53	17   29	48 22	104	313	912	440	1,352		1,897 4,745
19. Culgoa	$1,690 \\ 8,497$	$\begin{array}{c} 24 \\ 400 \end{array}$	$\frac{45}{223}$	$\frac{34}{274}$	$\frac{103}{897}$	1,793 $9,394$	2,623 44,605	269 4,650	2,892 $49,255$	(a) = 500	59,149
21. Dimboola	23,072	176	125	117	448	23,520	13,267	1,564	14,831	(b)1,230 \	41,201
22. Dingee 23. Dooen	274 74	8	13. 12 <sub>1</sub>	7	28 19	302 93	463 112	$\frac{62}{28}$	525 140	(a) 112 (σ) 8	$\frac{939}{241}$
24. Frankston 25. Garfield	6,205 119		215 17	170 17,	$\begin{array}{c} 770 \\ 65 \end{array}$	6,975 184	$35,573 \\ 752$	$\frac{4,250}{272}$	39.823 $1,024$		46,798 $1,208$
26. Hastings	$\frac{348}{445}$	33	17 104	11 30	6 <u>1</u> 193	$\frac{409}{638}$	1,739 731	27 <b>7</b> <b>343</b>	2,016 1,074		$\frac{2,425}{1,712}$
28. Hicksborough	132 7,361	10	15 372	15 31	10 415	$\frac{172}{7,776}$	149 6,357	$\frac{50}{619}$	$\frac{199}{6,976}$		$\frac{411}{14,902}$
29. Hopetoun 30. Jeparit	2,962	41	52 32	41 10	134 55	$3,096 \\ 1,408$	11,148	946 134	12,094 996	(b) 800	15,990 2,484
31. Jung Jung 32. Koondrook	1,353 4,304	15	203	34	252	4,556	3,557	213 168	3,770		8,656 7,778
33. Lake Boga 34. Lalbert	3,492 596	18	180	$\begin{bmatrix} 54 \\ 47 \end{bmatrix}$	254 78	3,746 674	3,564 $2,057$	283	2.340	(a) 591	3,605
35. Lascelles 36. Leitchville	1,321 1,616	16 <sup>1</sup> 62 <sup>1</sup>		20; 26	$\frac{48}{145}$	1,369 1,761	1,517 1,350	121 208	1,638 1,558	(a) 224	3,159 3,543
37. Lockington 38. Manangatang	513 1,107		12 16	25 49	39 81	552 1.188	1,660 $2,944$	192 49 <b>3</b>	1,852 $3,437$	(a) 585	2,764 5,210
39. Marnoo 10. Merbein	$\frac{436}{6,737}$		12 488	18 126	$\frac{30}{727}$	$\frac{466}{7,464}$	$\frac{1,706}{7,595}$	335 759	$2,041 \\ 8,354$		3,01J 16,418
11. Meringur 12. Minyip	192 1,794	56	18 166	20 57	94 266	286		117 846	530 $10,835$	(a) 563 ]	936 $16,882$
13. Mornington	4,417	255	143	106	504	4,921	25,413	3,000	28,413		33,334 <b>3,76</b> 7
14. Mount Martha 45. Murrabit	448 102	20	34 13	23 10	119 43	$\frac{567}{145}$	2,600 143	600 41	3,200 $184$		329
46. Nandaly	$\frac{322}{2,967}$		$\frac{21}{20}$	15 38	36 82	358 $3,049$	529 7,979	109 444	$638 \\ 8,423$		1,188 12,222
48. Newstead 49. North Wonthaggi	854	62 60	40 50	42 50	144  60	144 1,014	 1,568	$\frac{175}{287}$	175 1,855		319 3,149
50. Nullawil 51. Nyah	443 578		14 24	17 21	$\frac{32}{64}$	$\frac{475}{642}$	990 6 <b>6</b> 0	$\frac{268}{58}$	1,258 718	(a) $80$	1,793 1,440
52. Nyah West	1,618 8,555	72	39 489	53 136	164 665	$\frac{1,782}{9,220}$	4,180 $14,541$	$\frac{525}{1,552}$	$\frac{4,705}{16,093}$		7,189 25,913
54. Pakenham	519 228	54	31	88 16	$\frac{173}{23}$	692 251	4,680 578	930 128	5,610 706		6,778 $1,187$
55. Patchewollock 56. Piangil	1,193	61	99 122	62 30	$\frac{222}{186}$	1,415 1,814	2,434 2,266	$\frac{238}{346}$	$\frac{2,672}{2,612}$	(a) $612$	4,699 4,876
57. Pyramid Hill 58. Quambatook	1,628	10	15 125	6 125	$\frac{31}{270}$	31	1,600	79 3,200	79 4,800	(a) 30	140 5,159
59. Queenscliff and Point Lonsdale	89		80	43	126	3,743	14,445	1,026		(a, b)1,800	21,014
60. Rainbow	3,617 5,715	60	434	110	604	6,319	5,727	1,073 812	6,800		13,759 14,513
62, Rupanyup 63, Sea Lake	4,336 7,923	19	$\begin{array}{c} 137 \\ 280 \end{array}$	62 62	$\frac{199}{361}$	4,535 8,284	8,241 7,124	793	7,917 2,699	(a) 1,299	17,500 3,153
64. Somerville 65. South Frankston	1,942	140	13 80	8 56	$\frac{45}{276}$	$\frac{454}{2,218}$	2,419 $11,443$	$\frac{280}{1,400}$	12,843		15,061 1,207
66. Speed 67. Spring Vale	$ \begin{array}{c c} 242 \\ 2,375 \end{array} $	230	$\begin{array}{c} 18 \\ 129 \end{array}$	17 132	49 49 <b>1</b>	291 2,866	$\frac{441}{14,550}$	$\frac{175}{2,220}$	616 16,770		19 <b>,63</b> 6
68. Stanhope 69. Tempy	373 275	2	$\frac{52}{18}$	21 16	75 64	448 339	1.026 446	$\frac{145}{105}$	1,171 551	(a) 260	1,875 1,150
70. Ultima	2,709 351	26	40° 13	40 11	$\frac{106}{24}$	$\frac{2,815}{375}$	5,023 640	$\frac{509}{102}$	5,532 $742$	(a) 252	8,557 1,369
72. Watchen	1,793 399	57	13 42	18 39	88 <b>271</b>	$\frac{1.881}{670}$	3,873 1,137	$\frac{355}{326}$	4,228 1,463	(a) 190	6,299 $2,425$
73. Werrinull	16,971	343	821 55	200	1,364	18,335 4,677	53,244 . 9,376	$\frac{2.395}{471}$		(a,b)15,000	88,974 15,144
75. Woomelang	4,540 294	2	12	17	31	325	625 7,430	91 826	716 8,256	(a) 119	1,160 $17,534$
77. Wycheproof	8,089 129		315 19	57 11:	380 15	8,469 174	362	92	454		836
Totals	206,134	4,884	7,505	4,019	16,408	222,542	<b>500.23</b> 9	57,047	557,286	40,789	820,617

### CAPITAL EXPENDITURE.

STATEMENT of Moneys Expended from Water Supply Loans and Unemployment Relief Funds for the year ended 30th June, 1934.

	wo	orks.				Unemployment Relief Funds.	Water Supply Loans Application Acts 4084 and 4174 and Treasurer's Advance.	Total.
		adworks.				£ s. d.	£ s. d.	£ s. d
	Kerang North-West Lakes	• •	• •			••	170 8 11	170 8 1
	Laanecoorie Weir Lower Wimmera Weirs—Dim	hools 117	••	••		867 3 11		867 3 1
•	LOWOL WILLIAMS WELLS-DIM	DOOLS M. 6	ш	••		••	105 5 0	105 5
	River Murray W		-Works.					
•	Storages, Weirs and Locks	• •	••	••		••	52,654 9 4	<b>52,654</b> 9
	Reservoirs a	nd Storag	168.		1			
	Goulburn Storages—						]	
	Eildon Reservoir	••	••	• •	••		24,987 13 8	24,987 13
	Waranga Reservoir Glenmaggie Reservoir			• •		• •	314 16 9 2,975 16 1	314 16
	Pykes Creek and Melton Reser	rvoirs	••	••		• • • • • • • • • • • • • • • • • • • •	2,975 16 1 1,230 14 0	2,975 16 1,230 14
					Ĭ		-,200 11 0	1,200 14
	Waterworks Bellarine Peninsula		·.			20.550.14.0	20.05= 10. =	
	Birchip, Sea Lake, Tyrrell, and	d Wycher	roof	• •	::	23,759 16 8 656 9 3	26,857 16 7	50,617 13
	Carwarp		••	••	::	000 8 3	18,127 5 3 196 16 0	18,783 14 $196 16$
	Coreena					10 0 0	115 5 1	125 5
	Dering, Eureka, Baring, and E Hindmarsh		••	••			193 1 7	193 1
	Karkarooc	••	• •	• •	••	••	472 17 6	472 17
	Long Lake		••	• •			1,681 12 11 1,508 3 9	1,681 12 1
	Millewa					4 6 4	1,995 9 0	1,508 3 1,999 15
	Mornington Peninsula	••		••		19,645 8 7	33,619 14 6	53,265 <b>3</b>
	Tyntynder Walpeup	• •	••	• •	• •	1 101 27	4,083 11 4	4,083 11
	Western Wimmera				::	1,191 15 4	$\begin{vmatrix} 198 & 11 & 4 \\ 38,200 & 3 & 1 \end{vmatrix}$	1,390 6 38,200 3
	Wimmera United					698 3 9	5,355 16 5	6,054 0
	Wimmera, Mallee, Main and D	Distributai	y Channels	3		5,990 5 5	2,148 7 1	8,138 12
	To	vns.						
	Bacchus Marsh						80 15 9	80 15
	Berriwillock, Beulah, and Birc	hip					46 2 2	46 2
	Cohuna, Merbein, Nyah, and I Coliban	Red Cliffs	••	• •			212 7 11	212 7 1
	Culgoa, Dimboola, Hopetoun,	and Jana	rit	• •		10,363 0 8	5,912 5 8	16,275 6
	Heyfield, Stratford, Stanhope,	and Pyra	mid	• •	::	••	$egin{array}{c cccc} 150 & 3 & 5 \\ 439 & 7 & 2 \\ \hline \end{array}$	150 3
	Lake Boga, Lascelles, Manang	gatang, a	nd Minyip				233 8 3	$egin{array}{cccccccccccccccccccccccccccccccccccc$
	Natimuk, Nullawil, Nyah Wes	st, and O	uyen -		[	••	173 15 7	173 15
	Newstead Patchewollock, Piangil, and U	143	••	• •		4 19 10	5,901 18 6	5,906 18
	Watchem, Werrimull, Wychej	nuna proof. and	 I Meringur	••	]	••	$\begin{bmatrix} 68 & 8 & 1 \\ 107 & 3 & 7 \end{bmatrix}$	68 8
	Wonthaggi		···				54 9 0	$\begin{array}{ccc} 107 & 3 \\ 54 & 9 \end{array}$
	Tomicanticus and 177 at		Dia ta					
	Irrigation and Wate Bacchus Marsh and Werribee	er Suppiy 			1	23,928 9 8	2 260 16 1	07 100 -
	Boort				::	23,928 9 8	3,260 16 1 1,594 15 0	27,189 5 1,594 15
	Calivil						289 12 2	289 12
	Cohuna and Gannawarra Deakin and Dingee	• •	• •	••		15,832 18 4	2,600 16 11	18,433 15
	Katandra	••		••		••	$\begin{bmatrix} 72 & 0 & 6 \\ 642 & 17 & 2 \end{bmatrix}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	Kerang	••	••	• •		2,148 8 7	3,443 17 5	$\begin{array}{cccc} 642 & 17 & 1 \\ 5,592 & 6 & 6 \end{array}$
	Koondrook		••			-,110 0 .	1,160 11 4	1,160 11
	Leitchville Maffra, Sale	••	••	••		5 100 15 T	854 0 5	854 0
	Maiira, Sale Merbein		• •	• •		5,168 15 8 6,101 7 5	12,938 1 6 4,000 10 10	18,106 17
	Mystic Park, Fish Point, Third	d Lake, a			::	19,270 17 2	194 2 0	10,101 18 19,464 19
	North Shepparton	••	••				2,805 18 11	2,805 18 1
	Nyah Red Cliffs	••	••	• •		2,533 8 6	2,159 7 7	4,692 16
	Rochester and Echuca North	• •		• •		9,993 19 4 $2,638 3 5$	4,176 4 5 4,790 0 10	14,170 3 9
	Rodney					16,104 3 4	4,790 0 10 8,546 3 3	7,428 4 24,650 6
	Shepparton	••	••		]	20,385 0 2	3,754 10 11	24,139 11
	South Shepparton Stanhope	• •	••	• •		1.501 1 "	220 19 5	220 19
	Stanhope Swan Hill					1,721 1 5 $10,844$ 19 5	1,264 0 5 1,692 3 4	2,985 1 1
	Tongala				]	17,654 13 11	4,120 16 4	12,537 2 21,775 10
	Tragowel Plains	••		• •		1,339 7 11	1,373 7 1	2,712 15
	Goulburn Main Channels	• •	••	• •		••	4,851 7 1	4,851 7
	Flool Protection and	Drainan	e Districts					
	Kooweerup, Cardinia and Dar	ndenong (	reek			10,622 17 11	2,065 4 1	12,688 2
	Other Districts and Works	"	••			14,544 6 6	2,000 4 1	14,544 6
	Miscelle	aneon e						
	M iscella					32 13 2	8,169 15 6	8,202 8
	Investigations, Storages, and V	VOIKS						a 7117 W
	Investigations, Storages, and V Torrumbarry_Districts—New	vorks Districts	command	ed b	y Tor-	02 10 Z	0,100 10 0	0,202 0
	Investigations, Storages, and V Torrumbarry Districts—New rumbarry Weir	Districts	command	ed b	y Tor-		245 16 8	245 16

### 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, 1935, 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, 1935.

### ESTIMATED DISBURSEMENTS.

		<b>A.</b>				
Revenue Producing Works—						
${ m Coliban\ District}$					£11,400	
Irrigation and Water Supply Districts					$109,\!500$	
Waterworks Districts				71,600		
Drainage and Flood Protection Districts					450	
Diversions from Streams					350	
General Expenditure and Salaries (proportion) over					7.7.00	
£250 to be apportioned to above Districts					17,100	001.0.400
		_				£210,400
Non Danis D. 1. S. W. 1		В.				
Non-Revenue Producing Works-	_					
General Services—	``	Torre Drosinot	a Dani	f		
River Gaugings, Surveys, New Projects, Boring for						
Water, Land Settlement, General Expenditure and Salaries (proportion) over £250 £6,100						
Loan Works, Services on Account defrayed from Votes					3,300	
Waterworks Trusts Administration					1,600	
Wood Works Trustis II		1401011	••	• • •		£11,000
		C.				22,000
Non-Revenue Producing Works-	_	0.				
Free Headworks—						
Broken River					£200	
Goulburn-Waranga	• • •		• • •	••	1,150	
Kow Swamp	• •	• •		•	1,000	
Lake Lonsdale and L	ower Wi	immera	• •	•••	325	
${f Loddon\ River}$		••			200	
${ m North\text{-}West\ Lakes}$			• •		225	
						£3,100
					-	0004 500
						£224,500
ESTIMATED RECEIPTS.						
	COLUMN	ED RECEIP	15.			
Coliban District		• •	• •			£44,000
Irrigation and Water Supply Dis	tricts	• •	• •	• •	• •	257,000
Waterworks Districts	• •	••	• •	• •	• •	191,000
Flood Protection Districts	• •	• •	• •	• •	• •	8,000
Miscellaneous	• •	• •	• •	• •	• •	20,000
					-	£520,000
					_	2020,000
Estimated amount available fr	om Re	venue Prod	lucing	Works		,
to meet Interest					£309,600	
Less expenditure as per "B" a	nd "C'	' above on	Non-Re	venue	,	
Producing Works		• •			<b>14,10</b> 0	
						£295,500
To which add Estimated Revenues from other Authorities—						
Waterworks Trusts	• •	• •	• •	• •	60,200	
Local Bodies	••	2 •	• •	• •	23,800	
						£84,000
Total Estimated amount ava	ilabla	from Darre	muoa	£ 511	-	
Total Estimated amount averaged Authorities to meet Interest	THADIE	from Reve	enues (	of all		£270 500
Adulottiles to meet interest	••	• . •	••	,r @	• •	£379,500
					_	

# STATEMENT OF LOAN LIABILITY

Dated at the office of the State Rivers and Water Supply Commission, Treasury Gardens, Melbourne, the 24th day of September, 1934.

RICHD. HORSFIELD, Chairman.

A. S. KENYON, Commissioner.

W. TREVEAN, Commissioner.

P. J. O'MALLEY, Secretary.

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