

1933.

VICTORIA.

STATE RIVERS AND WATER SUPPLY COMMISSION.

TWENTY-EIGHTH
ANNUAL REPORT,
1932-33.

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

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STATE RIVERS AND WATER SUPPLY COMMISSION.

ANNUAL REPORT, 1932-33.

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 1932-33, and Estimates for the ensuing year.

R. H. HORSFIELD, CHAIRMAN.

A. S. KENYON, COMMISSIONER.

W. TREVEAN, COMMISSIONER.

Since the last Report there have been some changes in the membership of the Commission. As mentioned last year, Mr. Wm. Cattanach, C.M.G., who had been Chairman of the Commission since 1915, died on the 20th July, 1932. At the end of the year 1932 Mr. E. Shaw, Commissioner, who had held office since May, 1915, resigned on account of ill health. To fill the vacancies thus caused, Mr. R. H. Horsfield has been appointed to the office of Chairman, and Mr. A. S. Kenyon and Mr. W. Trevean were appointed Commissioners.

WORKS UNDER CONTROL OF COMMISSION.

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

A.—FREE HEADWORKS.

DESCRIPTION OF WORKS.	Capital Debit at 30th June, 1933. Exclusive of cost of Loan Flotation.
1. Broken River Works :—Casey's Weir and offtake, with about 59 chains of channel to the Broken Creek; Gowangardie Weir with offtake sluice	£ 14,853
2. Goulburn River Works :—Weir on the Goulburn River, about 9 miles above Murchison; channel therefrom, about 23½ miles, to Waranga Reservoir; and that Reservoir (but exclusive of the work of its enlargement)	739,552
3. Kerang North-West Lakes Works :—Weir on the Loddon River at its confluence with the Pyramid Creek; regulating weirs at the effluence from the Loddon of the Sheepwash and Washpen Creeks; channel from the Washpen Creek regulator to Reedy Lake, Middle Lake, Third Lake, Lake Charm, Racecourse Lake, Cullen's Lake, Kangaroo Lake, and Lake Tutchewop, and to the Little Murray River, with water storage works at these lakes	26,393
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; and that Reservoir; channel along the northern side of the reservoir; channel from the outlet of the reservoir, about 23½ miles, to the left bank of the Loddon River	187,944
5. Lake Lonsdale Reservoir :—Reservoir at Lake Lonsdale, on the Little Wimmera River, near Ledcourt	49,054
6. Loddon River Works :—Laanecoorie Weir, on the Loddon; Bridgewater Weir, on the Loddon; Kinypanial Weir, on the Loddon	167,789
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 rising main thence about 7 miles to allotment 10M, parish of Koorem; system of main distributary channels, about 85 miles in length	27,346
8. Lower Wimmera Compensation Works :—Drung Drung Weir, on the Wimmera, near allotment 29, parish of Longerenong; Dimboola Weir, on the Wimmera, near Dimboola township; Antwerp Weir, on the Wimmera, at Antwerp Station homestead; Jeparit Weir, on the Wimmera, near Jeparit township	8,558
Total	1,221,489

B.—MAIN SUPPLY WORKS.

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

Costs Apportioned and to be Apportioned to Districts benefited.

Name of Work.	Capital Debit at 30th June, 1933.	Tentative Debits to Districts, 1932-33.	
Goulburn Main Channels (Free Headworks excluded)—	£	Rodney £120,000	
1. East Goulburn Main	358,346	Tragowel Plains 100,000	
2. Waranga Reservoir to Campaspe	391,106	Rochester 74,000	
3. West of Campaspe	654,276	Tongala 58,000	
4. Goulburn Main Channel Distributaries	10,636	Shepparton 57,000	
	1,414,364	Deakin 24,000	
		Boort 20,000	
		Echuca North 17,000	
		Dingee 15,000	
		Stanhope 15,000	
		South Shepparton 9,000	
		£509,000	
		.. .. .	1,414,364
Goulburn Storages—			
5. Eildon Reservoir	1,850,784		
6. Waranga Reservoir Enlargement	608,777		
	2,459,561		2,459,561
Bacchus Marsh and Werribee Schemes—			
7. Ballan Tunnel	21,678	Werribee £33,000	
8. Pykes Creek Reservoir	141,608	Bacchus Marsh 82,041	
9. Melton Reservoir	85,644	Werribee £85,644	
	248,930	.. .. .	248,930
10. Bellarine Peninsula	419,635	Waterworks Districts to be debited later	419,635
Maffra-Sale Scheme—			
11. Glenmaggie Reservoir	660,678		
12. Main Channels and Distributary Works	566,677		
	1,227,355	Irrigation Districts to be debited later	1,227,355
Red Cliffs Scheme—			
13. Main and Distributary Channels	776,168	Irrigation District Progressing Debit £470,000	776,168
Millewa District—			
14. Main and Distributary Channels	516,494	Waterworks Districts to be debited later	516,494
Flood Protection Districts—			
15. Kooweerup and Cardinia	379,690	Lower Kooweerup and Cardinia £145,000	
16. Goulburn Levees	60,496	Echuca, Kanyapella, and Loch Garry 17,432	
	440,186	.. .. .	440,186
Carried forward			8,724,182

WORKS UNDER CONTROL OF COMMISSION—continued.

Capital Debit
at 30th June,
1933,
Exclusive
of Cost of Loan
Flotation.

Brought forward

£
8,724,182

C.—IRRIGATION AND WATER SUPPLY DISTRICTS.

Distributary Works within Districts under the control of the Commission.

Name of District. (Including Urban Divisions.)	Total Capital Expenditure.	Capital Written Off by Acts 1825 and 1851.	Redemption Paid to Treasury.	Capital Debit at 30th June, 1933.
	£	£	£	£
1. Bacchus Marsh	112,338	8,906	493	102,939
2. Boort	114,491	35,259	1,794	77,438
3. Calivil	109,435	..	..	109,435
4. Campaspe	65,253	52,685	305	12,263
5. Cohuna and Gannawarra	403,533	82,376	1,386	319,771
6. Deakin	95,756	34,748	2,144	58,864
7. Dingee	17,198	..	..	17,198
8. Dry Lake	1,704	686	299	719
9. Echuca North	23,802	..	..	23,802
10. Fish Point	15,461	..	..	15,461
11. Katandra	104,454	..	..	104,454
12. Kerang	149,939	35,338	2,334	112,267
13. Koondrook	219,970	30,872	1,562	187,536
14. Leitchville	43,364	..	..	43,364
15. Merbein	223,904	..	133	223,771
16. Mystic Park	17,234	..	..	17,234
17. North Shepparton	186,727	..	..	186,727
18. Nyah	108,975	..	..	108,975
19. Rochester	327,496	..	..	327,496
20. Rodney	715,777	149,949	8,967	556,861
21. Shepparton	187,283	..	710	186,573
22. South Shepparton	59,090	..	..	59,090
23. Stanhope	113,916	..	53	113,863
24. Swan Hill	186,331	19,799	371	166,161
25. Third Lake	24,934	..	..	24,934
26. Tongala	150,139	..	..	150,139
27. Tragowel Plains	379,262	124,534	527	254,201
28. Tresco	91,165	..	..	91,165
29. Werribee	122,550	..	10,242	112,308
	4,371,481	575,152	31,320	3,765,009

3,765,009

D.—WATERWORKS DISTRICTS.

Distributary Works within Districts under the control of the Commission.

Name of District. (Including Urban Districts.)	Total Capital Expenditure.	Capital Written Off by Acts 1825 and 1851.	Redemption Paid to Treasury.	Capital Debit at 30th June, 1933.
	£	£	£	£
1. Birchip	877,491	700	2,473	874,318
2. Sea Lake				
3. Tyrell				
4. Wycheproof				
5. Carwarp	43,345	..	..	43,345
6. Coliban	1,633,033	..	..	1,633,033
7. Coreena	45,665	..	..	45,665
8. Dandenong	39,652	5,128	1,506	33,018
9. Dering	11,654	..	..	11,654
10. Eureka	4,049	..	..	4,049
11. Hindmarsh	27,285	..	..	27,285
12. Karkaroc	287,248	..	2,893	284,355
13. Kerang North-West Lakes	2,036	..	..	2,036
14. Kia	7,133	..	..	7,133
15. Long Lake	131,852	..	1,081	130,771
16. Mornington Peninsula	870,862	..	..	870,862
17. Ouyen	18,779	..	..	18,779
18. Pyramid Hill	6,213	..	1,300	4,913
19. Tyntynder	271,223	..	60	271,163
20. Upper Western Wimmera	104,517	26,567	3,450	74,500
21. Upper Wimmera United	135,917	10,918	4,499	120,500
22. Walpeup Districts	61,088	..	..	61,088
23. Werribee	11,636	..	..	11,636
24. Western Wimmera	387,805	106,268	13,198	268,339
25. Wimmera United	287,836	25,474	10,231	252,131
26. Wonthaggi	77,185	..	9,071	68,114
27. Yelta	6,138	..	..	6,138
28. Wimmera Main Channels	111,339	..	..	111,339
29. Wimmera Storages— Fyans Lake Taylors Lake Pine Lake Lake Whittou	Amounts being debited to Districts benefited 43,685 204,988 178,588 10,336	.. .. .. ..	.. .. .. ..	43,685 204,988 178,588 10,336
	5,898,578	175,055	49,762	5,673,761

5,673,761

Carried forward

18,162,952

WORKS UNDER CONTROL OF COMMISSION— <i>continued.</i>				Capital Debit at 30th June, 1933. Exclusive of Cost of Loan Flotation.
Brought forward				£ 18,162,952
E.—WATERWORKS TRUSTS DISTRICTS.				
DISTRICTS HELD IN TRUST BY THE COMMISSION.				
Name of Trust.	Total Advances by State.	Capital Written Off by Acts 1625 and 1651.	Redemption Paid to Treasury.	Capital Debit at 30th June, 1933.
	£	£	£	£
1. Avoca Water Trust—				
Rural District	8,386	2,494	2,860	3,032
Urban District (Quambatook) ..	4,444	..	736	3,708
2. Carrum Waterworks Trust	38,800	7,732	5,086	25,982
3. Loddon United Waterworks Trust—				
Rural District	20,186	1,717	7,402	11,067
Urban District (Mitiamo) ..	5,158	..	200	4,958
	76,974	11,943	16,284	48,747
Grand Total				£18,162,952

LANDS SUPPLIED WITH WATER WITHIN THE STATE.

The area of country lands within the State artificially supplied with water for domestic and ordinary use and for watering stock is approximately 24,240 square miles, equal to about 15,514,000 acres.

The area under irrigated culture for all kinds of crops was 474,716 acres, being an increase of 56,301 acres over the area irrigated in the previous year.

This area closely approximates to the average of the previous five years, and is nearly 55,000 acres above the average area irrigated during the previous ten years.

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

Controlling Authorities.	Number of Towns Supplied.	Estimated Population Served.
Commission	98	122,300
Waterworks Trusts	108	195,300
Local Governing Bodies ...	17	78,100
Totals	223	395,700

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 1932-33.

Name of District.	Area Irrigated (Acres).						
	Cereals.	Lucerne grown for Pasture and Hay.	Sorghum and other Annual Fodder Crops.	Pastures, Native and Sown.	Vineyards, Orchards, and Gardens.	Fallow.	Miscellaneous.
<i>Supplied from Goulburn State Works.</i>							
Katandra	620	4,520	110	1,600	60	300	10
North Shepparton	450	2,370	520	1,280	50	100	120
Shepparton	350	2,950	470	1,990	7,770	250	850
South Shepparton	120	1,850	570	780	20	70	100
Rodney	758	28,698	1,977	24,102	7,804	1,027	579
Stanhope	239	9,989	205	1,791	279	12	1
Tongala	503	12,381	335	5,892	1,333	249	85
Rochester	3,777	19,204	892	21,233	1,868	381	927
Echuca North	105	1,932	280	1,019	..	98	81
Dingee	26	1,115	37	1,856	10	7	..
Calivil	379	2,538	79	2,376	64	148	..
Tragowel Plains	4,336	2,799	3,560	30,510	34	261	..
Deakin	20	1,246	46	925	3	40	7
Boort	1,718	366	1,379	6,396	38	773	..
Totals	13,401	91,958	10,460	101,750	19,333	3,716	2,760
<i>Supplied from River Murray State Works.</i>							
<i>(a) Torrumbarry Weir.</i>							
Leitchville	428	2,321	71	3,507	19	101	55
Cohuna	1,791	3,113	581	23,624	87	481	1,115
Gannawarra	1,942	1,520	1,747	16,335	35	193	588
Koondrook	2,841	1,397	1,746	11,512	843	219	170
Swan Hill	3,570	5,849	599	5,672	2,883	499	77
Third Lake	295	113	91	2,624	1	44	50
Mystic Park	402	205	171	2,003	3	78	..
Tresco .. .. .	..	70	84	7	995	..	5
Fish Point	181	101	75	1,337	3	..	..
Kerang	3,438	627	2,802	17,184	21	226	20
Dry Lake	25	..	..	235	..	..	..
Kerang North-West Lakes	522	71	55	1,040	398	..	12
Lands supplied direct (outside Districts)	98	763	227	2,094	47	..	223
Totals	15,533	16,150	8,249	87,174	5,335	1,841	2,315
<i>(b) Direct from River.</i>							
Nyah	50	100	20	..	2,700	..	30
Red Cliffs .. .. .	..	250	150	..	10,540	..	112
Merbein .. .. .	..	100	..	..	7,484	..	90
Totals	50	450	170	..	20,724	..	232
Totals (River Murray State Works)	15,583	16,600	8,419	87,174	26,059	1,841	2,547
<i>Supplied from Loddon and Other Northern State Works.</i>							
Boort	240	40	110	440	..	..	..
Coliban	115	565	378	1,999	5,237	496	221
Campaspe	60	275	..	14	..	..	..
Western Wimmera .. .. .	..	74	181	..	1,119	..	57
Totals	415	954	669	2,453	6,356	496	278
<i>Supplied from Southern State Works.</i>							
Bacchus Marsh .. .. .	..	1,452	74	1,446	228	48	..
Werribee	454	1,482	304	4,140	325	769	909
Narre Warren	280	3	57	404	216	160	..
Maffra	155	1,324	1,221	6,516	2	886	842
Sale	112	1,822	645	3,891	2	256	617
Totals	1,001	6,083	2,301	16,397	773	2,119	2,368
<i>Supplied from other Works.</i>							
First Mildura District .. .. .	..	505	127	..	10,930	..	184
Private Diversions—Kerang (outside Districts)	92	82	134	395	..	3	..
Other Private Diversions throughout the State	2,000	3,500	2,700	2,700	4,000	100	3,000
Totals	2,092	4,087	2,961	3,095	14,930	103	3,184
Grand Totals 1932-33	32,492	119,682	24,810	210,869	67,451	8,275	11,137
Grand Totals, 1931-32	27,928	125,615	30,479	150,478	68,430	7,042	8,443

(B) COMPARATIVE STATEMENT OF THE EXTENT OF IRRIGATION, 1928-29 TO 1932-33.

Source of Supply.	Area under Irrigation (Acres).				
	1928-29.	1929-30.	1930-31.	1931-32.	1932-33.
Goulburn State Works	245,658	322,039	242,435	212,284	243,378
River Murray State Works	160,760	173,642	156,169	136,254	158,223
Loddon and other Northern State Works	14,172	12,486	12,067	11,120	11,621
Southern State Works	19,888	25,831	22,662	28,094	31,042
Mildura and Private Diversions	31,217	32,579	29,765	30,663	30,452
Totals	471,695	566,577	463,098	418,415	474,716

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

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

During the year a rate was, for the first time, made in the Urban Waterworks District of Queenscliff and Point Lonsdale.

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, Western Wimmera, Wimmera United, Wycheproof, and Yelta Waterworks Districts, while in the Baring, Carwarp Central, and Kia Districts the minimum was fixed at £16 per 640 acres, in the Eureka, Hindmarsh, and Walpeup Central Districts at £18 13s. 4d. per 640 acres, in the Dering and Millewa Districts at £21 6s. 8d. per 640 acres, in the Millewa Central District at £26 13s. 4d. per 640 acres, in the Coreena District at £34 13s. 4d. per 640 acres, and in the Walpeup West Waterworks Bore District at £5 6s. 8d. per 640 acres.

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

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

Districts Supplied with Water for Domestic and Ordinary Use and for Watering Cattle or other Stock.	Annual Value of Lands and Tenements.	Rate in the £1 made during Year ended 30th June, 1933.	Period of Rate.	Estimated Number of Persons dwelling in District.
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IRRIGATION AND WATER SUPPLY DISTRICTS

	Valuation by Commission.	Divisions.				
		1st.	2nd.	3rd.		
	£	s. d.	s. d.	s. d.		
1. BACCHUS MARSH ..	15,929	1 0	..	..	1st July, 1932, to 30th June, 1933	758
2. BOORT ..	18,310	2 0	1 0	..	" " "	649
3. CALIVIL ..	15,468	1 0	..	..	" " "	500
4. CAMPASPE ..	10,690	2 0	1 0	0 6	" " "	576
5. COHUNA ..	23,455	2 0	1 0	0 6	" " "	1,019
6. DEAKIN ..	52,096	1 8	0 10	0 5	" " "	1,610
7. DINGEE ..	4,151	1 0	..	..	" " "	200
8. DRY LAKE ..	250	(No rate made)			" " "	14
9. ECHUCA NORTH ..	5,751	1 0	0 6	..	1st July, 1932, to 30th June, 1933	568
10. FISH POINT ..	1,643	1 0	..	..	" " "	135
11. GANNAWARRA ..	20,216	2 0	1 0	0 6	" " "	667
12. KATANDRA ..	8,449	1 0	..	..	" " "	660
13. KERANG ..	20,969	2 4	1 2	0 7	" " "	1,150
14. KOONDRICK ..	23,249	2 0	1 0	..	" " "	1,220
15. LEITCHVILLE ..	8,028	2 0	1 0	..	" " "	239
16. MAFFRA ..	33,086	1 0	0 6	..	" " "	1,234
17. MERBEIN ..	26,502	1 0	..	..	" " "	3,550
18. MYSTIC PARK ..	4,732	1 0	..	..	" " "	111
19. NORTH SHEPPARTON ..	43,532	1 0	..	..	" " "	1,450

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

Districts Supplied with Water for Domestic and Ordinary Use and for Watering Cattle or other Stock.	Annual Value of Lands and Tenements.	Rate in the £1 made during year ended 30th June, 1933.	Period of Rate.	Estimated Number of Persons dwelling in District.
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IRRIGATION AND WATER SUPPLY DISTRICTS—*continued.*

	Valuation by Commission.	Divisions.			Period of Rate.	Estimated Number of Persons dwelling in District.
		1st.	2nd.	3rd.		
	£	s. d.	s. d.	s. d.		
20. NYAH	6,809	1 0	..	..	1st July, 1932, to 30th June, 1933	1,000
21. RED CLIFFS	23,624	1 0	..	..	" " "	2,670
22. ROCHESTER	67,087	1 0	0 6	0 3	" " "	4,190
23. RODNEY	144,567	1 0	0 6	0 3	" " "	5,410
24. SALE	17,864	1 0	..	..	" " "	775
25. SHEPPARTON	38,909	1 0	..	..	" " "	2,670
26. SOUTH SHEPPARTON	15,214	1 0	..	..	" " "	570
27. STANHOPE	15,085	1 0	..	..	" " "	850
28. SWAN HILL	24,401	1 0	..	..	" " "	1,500
29. THIRD LAKE	2,299	2 0	..	..	" " "	160
30. TONGALA	29,318	1 0	..	..	" " "	2,250
31. TRAGOWEL PLAINS	43,919	1 0	0 6	0 3	" " "	1,730
32. WERRIBEE	18,879	1 0	..	..	" " "	1,169

WATERWORKS DISTRICTS.

					1st July, 1932, to 30th June, 1933	
33. AXE CREEK	1,666	2 0	..	..	" " "	260
34. BARING	1,295	5 0	2 6	1 3	" " "	120
35. BIRCHIP	40,519	2 4	1 2	0 7	" " "	2,675
36. CARWARP	9,417	3 10	1 11	0 11½	" " "	740
37. CARWARP CENTRAL	1,065	5 0	2 6	..	" " "	204
38. COREENA	12,148	5 0	2 6	1 3	" " "	330
39. DERING	2,505	6 0	3 0	1 6	" " "	221
40. EUREKA	1,802	4 0	2 0	1 0	" " "	115
41. HARCOURT	8,676	1 6	..	..	" " "	600
42. HINDMARSH	9,239	3 6	1 9	0 10½	" " "	230
43. KARKAROOC	147,990	2 2	1 1	0 6½	" " "	4,000
44. KERANG N.W. LAKES	8,206	0 6	..	..	" " "	570
45. KIA	5,055	5 0	2 6	1 3	" " "	250
46. LONG LAKE	72,576	2 10	1 5	0 8½	" " "	2,330
47. MILLEWA	13,465	5 0	2 6	1 3	" " "	2,350
48. MILLEWA CENTRAL	9,047	7 6	3 9	1 10½	" " "	1,250
49. NARRE WARREN	3,219	1 0	..	..	" " "	210
50. SEA LAKE	67,539	2 8	1 4	0 8	" " "	2,430
51. TYNTYNDER	56,607	3 4	1 8	0 10	" " "	3,200
52. TYRRELL	103,497	3 4	1 8	0 10	" " "	5,655
53. UPPER WEST'N WIMMERA	64,970	1 6	0 9	0 4½	" " "	1,684
54. UPPER WIMMERA UNITED	114,257	1 6	0 9	0 4½	" " "	2,750
55. WALPEUP CENTRAL	8,933	5 6	2 9	1 4½	" " "	320
56. WALPEUP WEST	66,492	0 9	0 4½	..	" " "	2,350
57. WERRIBEE	8,156	2 0	..	..	" " "	145
58. WESTERN WIMMERA	289,758	1 2	0 7	0 3½	" " "	8,804
59. WIMMERA UNITED	344,642	1 2	0 7	0 3½	" " "	7,800
60. WYCHEPROOF	77,518	2 4	1 2	0 7	" " "	2,965
61. YELTA	2,771	3 4	..	..	" " "	150

WATERWORKS TRUSTS.

	Municipal Valuation.					
62. AVOCA	34,240	..	..	0 4	1st January, 1933, to 31st December, 1933	990
63. MITIAMO (URBAN)	891	..	..	4 0	" " "	190
64. QUAMBATOOK (URBAN)	3,874	..	..	2 6	" " "	330
65. CARRUM	23,141	1st Division ..	3 8	..	" " "	1,500
		2nd Division ..	1 10	..		
		3rd Division ..	1 0	..		
		4th Division ..	0 10	..		
		5th Division ..	0 3	..		
	Valuation by Commission					
	£					
66. LODDON UNITED	89,413	1st Division ..	0 8	..	" " "	3,300
		2nd Division ..	0 4	..		
		3rd Division ..	0 2	..		

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

Districts Supplied with Water for Domestic and Ordinary Use and for Watering Cattle or other Stock.	Annual Value of Lands and Tenements.	Rate in the £1 made during year ended 30th June, 1933.	Period of Rate.	Estimated Number of Persons dwelling in District.
URBAN DIVISIONS AND DISTRICTS.				
	Municipal Valuation. £	s. d.		
67. ANTWERP	231	5 0	1st July, 1932, to 30th June, 1933	78
68. BACCHUS MARSH ..	17,508	1 6	" " "	1,800
69. BERRIWILLOCK ..	1,715	3 6	" " "	160
70. BERWICK	5,789	2 1	" " "	900
71. BEULAH	2,939	3 0	" " "	500
72. BIRCHIP	8,072	1 8	" " "	985
73. BITTERN	676	3 1	" " "	90
74. BRIM	1,169	4 6	" " "	180
75. BUNYIP	3,222	2 4	" " "	400
76. CARRUM	74,534	1 5	" " "	6,355
77. CARWARP	207	5 0	" " "	45
78. CHILLINGOLLAH ..	549	5 0	" " "	120
79. CHINKAPOOK	690	6 0	" " "	125
80. COHUNA	8,191	2 0	" " "	900
81. COROP	211	2 0	" " "	90
82. CRANBOURNE	3,210	2 0	" " "	250
83. CRIB POINT	3,082	3 1	" " "	500
84. CULGOA	1,518	3 6	" " "	155
85. DANDENONG	58,614	1 3	" " "	4,500
86. DIMBOOLA	13,640	1 11	" " "	1,652
87. DINGEE	530	4 0	" " "	90
88. DOOEN	179	2 0	" " "	30
89. FRANKSTON	53,214	1 4	" " "	5,320
90. GARFIELD	2,960	2 4	" " "	300
91. HASTINGS	2,144	3 0	" " "	460
92. HEYFIELD	4,526	2 6	" " "	523
93. HICKSBOROUGH ..	482	3 9	" " "	100
94. HOPETOUN	4,930	3 0	" " "	700
95. JEPARIT	7,444	2 2	" " "	852
96. JUNG JUNG	896	3 0	" " "	168
97. KOONDROOK	3,705	2 6	" " "	480
98. LAKE BOGA	2,632	3 0	" " "	380
99. LALBERT	980	5 0	" " "	155
100. LASCELLES	678	5 0	" " "	130
101. LEITCHVILLE ..	1,990	3 2	" " "	214
102. LOCKINGTON	1,551	3 6	" " "	240
103. MANANGATANG ..	2,452	3 6	" " "	260
104. MARNOO	1,726	3 6	" " "	250
105. MARONG	908	3 0	" " "	300
106. MERBEIN	8,849	2 9	" " "	750
107. MERINGUR	374	7 0	" " "	115
108. MINYIP	6,586	2 9	" " "	750
109. MORNINGTON	35,047	1 5	" " "	2,224
110. MOUNT MARTHA ..	5,341	2 1	" " "	186
111. MURRABIT	275	6 0	" " "	35
112. NANDALY	421	6 0	" " "	112
113. NATIMUK	3,278	1 6	" " "	585
114. NORTH WONTHAGGI ..	4,728	2 0	" " "	1,000
115. NULLAWIL	1,008	5 0	" " "	115
116. NYAH	835	2 6	" " "	170
117. NYAH WEST	4,632	2 9	" " "	330
118. OUYEN	10,686	2 9	" " "	800
119. PAKENHAM	5,467	2 1	" " "	700
120. PATCHEWOLLOCK ..	381	6 0	" " "	158
121. PIANGIL	1,721	3 6	" " "	260
122. PYRAMID HILL ..	3,458	3 0	" " "	500
123. QUEENSLIFF AND POINT LONSDALE ..	21,718	1 3	1st Jan., 1933, to 30th June, 1933	3,100
124. RAINBOW	7,760	2 2	1st July, 1932, to 30th June, 1933	984
125. RED CLIFFS	10,689	2 6	" " "	820
126. RUPANYUP	5,966	2 9	" " "	650
127. SEA LAKE	8,175	2 0	" " "	617
128. SOMERVILLE	1,737	2 6	" " "	250
129. SOUTH FRANKSTON ..	10,828	2 6	" " "	700
130. SPEED	283	10 0	" " "	114
131. SPRINGVALE	24,410	1 6	" " "	1,820
132. STANHOPE	1,025	4 0	" " "	300

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

Districts Supplied with Water for Domestic and Ordinary Use and for Watering Cattle or other Stock.	Annual Value of Lands and Tenements.	Rate in the £1 made during year ended 30th June, 1933.	Period of Rate.	Estimated Number of Persons dwelling in District.
URBAN DIVISIONS AND DISTRICTS— <i>continued.</i>				
	Municipal Valuation. £	s. d.		
133. TEMPY	236	.. .. 8 0	1st July, 1932, to 30th June, 1933	130
134. ULTIMA	3,115	.. .. 3 0	" " "	390
135. WAITCHIE	408	.. .. 5 0	" " "	120
136. WATCHEM	2,264	.. .. 3 0	" " "	250
137. WERRIMULL	789	.. .. 7 0	" " "	140
138. WONTHAGGI	33,846	.. .. 1 6	" " "	8,000
139. WOOMELANG	2,164	.. .. 3 6	" " "	420
140. WOORINEN	481	.. .. 4 0	" " "	60
141. WYCHEPROOF	9,523	.. .. 2 0	" " "	810
142. YAAPEET	241	.. .. 9 0	" " "	106

COLIBAN SYSTEM.

143. COLIBAN	£ 370,734	s. d.	1st July, 1932, to 30th June, 1933	61,000
		On Valuations up to £300 .. 1 6		
		(Minimum 20s.)		
		From £301 up to £700 .. 1 3		
		From £701 on 1 0		
		Vacant lands .. 1 6		

FLOOD PROTECTION DISTRICTS.

	Valuation by Commission. £	s. d.		
144. ECHUCA (HIGH-ST.) ..	1,454	.. .. 1 0	1st July, 1932, to 30th June, 1933	80
145. CARDINIA	36,206	1st Div. (p. ac.) 3 0	" " "	850
		2nd Div. (p. ac.) 1 6		
		3rd Div. (p. ac.) 0 9		
146. LOWER KOOWEERUP ..	54,834	1st Div. (p. ac.) 2 0	" " "	2,500
		2nd Div. (p. ac.) 1 0		
		3rd Div. (p. ac.) 0 6		
147. KANYAPELLA	14,494	1st Div. (p. ac.) 0 7	" " "	60
		2nd Div. (p. ac.) 0 3½		
148. LOCH GARRY	40,886	Per acre .. 0 6	" " "	200

B.—COMPULSORY IRRIGATION CHARGES.

Irrigation and Water Supply District.	Area of District in Acres.	Area at present Irrigable in Acres.	Water Rights Apportioned (including Extra Rights) in Acre-feet.	Compulsory Charge per Acre-foot of Water Right.	Period of Charge.
1. BACCHUS MARSH	6,684	3,359	3,359	22s. 6d.	1st October, 1932, to 30th April, 1933
2. COHUNA	36,509	22,724	22,838	6s.	1st September, 1932, to 30th April, 1933
3. DINGEE	8,580	4,494	4,494	7s.	" " " "
4. ECHUCA NORTH	13,793	5,643	5,712	7s. 6d.	" " " "
5. FISH POINT	6,379	3,834	1,884	8s.	" " " "
6. GANNAWARRA	53,509	19,689	19,763	6s.	" " " "
7. KOONDROOK	62,165	18,863	18,863	6s.	" " " "
8. LEITCHVILLE	13,824	11,994	4,169	7s.	" " " "
9. MAFFRA	23,096	10,214	14,902	10s.	" " " "
10. MERBEIN	8,475	7,698	19,245	24s.	1st August, 1932, to 30th April, 1933
			Min. 60s. per acre		
11. MYSTIC PARK	18,764	9,116	3,056	6s.	1st September, 1932, to 30th April, 1933
12. NYAH	3,739	3,128	7,761	20s.	1st August, 1932, to 30th April, 1933
			Min. 50s. per acre		
13. RED CLIFFS	30,869	11,053	27,633	28s.	" " " "
			Min. 70s. per acre		
14. ROCHESTER	172,226	55,108	55,753	6s.	1st September, 1932, to 30th April, 1933
15. RODNEY	267,803	191,744	61,602	6s.	" " " "
16. SALE	16,872	8,857	7,287	10s.	" " " "
17. SHEPPARTON	24,587	21,714	21,714	6s.	" " " "
18. SOUTH SHEPPARTON ..	33,752	18,904	4,739	8s.	" " " "
19. STANHOPE	25,994	18,699	18,152	6s.	" " " "
20. SWAN HILL	36,452	22,126	22,126	6s.	" " " "
21. THIRD LAKE	11,488	4,057	2,706	7s.	" " " "
22. TONGALA	45,477	28,700	28,598	6s.	" " " "
23. TRAGOWEL PLAINS ..	214,885	147,996	31,281	7s.	" " " "
24. TRESCO	3,400	2,008	5,020	40s. (per acre)	1st January, 1932, to 31st December, 1932
25. WERRIBEE	9,960	7,960	7,983	12s.	1st October, 1932, to 30th April, 1933

CONTRACTS.

STATEMENT OF CONTRACTS ENTERED INTO DURING THE YEAR ENDED 30TH JUNE, 1933.

No.	Name of Contractor.	Work or Supply.	Amount (Loan and Vote).		
			£	s.	d.
2739	A. Ewart	Earthern Storage, Nyah West	324	10	0
2740	J. H. Dunstan	Firewood, Tresco	373	19	2
2741	A. J. Belz	Firewood, Nyah	412	10	0
2742	G. Bullock	Firewood, Nyah	275	0	0
2743	Perry and Co.	Firewood, Merbein	5,343	14	8
2744	Ride and Horkings	Earthern Storage, Jeparit	685	3	4
2745	Australian Wood Pipe Co. Ltd. ..	Pipes, Bellarine Peninsula	4,271	5	0
2746	C. Giovanni	Firewood, Nyah	368	18	0
2747	J. J. Russell	Firewood, Millewa	110	8	4
2748	E. E. McMillan	Firewood, Millewa	120	16	8
2749	B. Alderson	Firewood, Millewa	118	15	0
2750	J. J. Alderson	Firewood, Millewa	116	13	4
2751	F. Jenks	Firewood, Nyah	412	10	0
2752	E. E. Murphy	Firewood, Millewa	475	0	0
2753	M. Walsh	Firewood, Millewa	122	18	4
2754	C. A. Murphy	Firewood, Millewa	479	19	9
2755	W. J. Dobel	Earthern Storage, Newstead	606	15	10
2756	M. Dorman	Firewood, Millewa	376	17	3
2757	A. B. Parker	Firewood, Millewa	225	9	0
2758	T. Conroy	Firewood, Millewa	230	11	8
2759	W. Garrigan	Firewood, Millewa	102	10	0
2760	A. B. Parker	Firewood, Millewa	120	13	0
2761	Australian Wood Pipe Co. Ltd. ..	Wood Pipes, Bellarine Peninsula ..	4,949	2	6
2762	Mephan Ferguson Pty. Ltd. ..	Mild Steel Pipes, Bellarine Peninsula ..	442	7	1
2763	Graham, Campbell, Ferrum Co. Pty. Ltd.	Cast Iron Pipes, Bellarine Peninsula ..	952	15	8
2764	Hume Pipe Co. (Aust.) Ltd. ..	Concrete Pipes	155	2	0
2765	Australian Cement Ltd.	1,000 tons Cement	4,400	0	0
2766	G. Holmes	Firewood, Millewa	350	0	0
2767	C. A. Foster	Firewood, Millewa	225	0	0
2768	G. L. Holmes	Firewood, Millewa	118	15	0
2769	R. Ingham	Firewood, Millewa	120	3	6
2770	Hume Steel Ltd.	Steel Pipes, Western Wimmera	22,452	0	0
2771	Monteath and Sons Pty. Ltd. ..	Cast Iron Pipes, Bellarine Peninsula ..	377	19	4
2772	Australian Cement Ltd.	2,000 tons Cement	8,800	0	0
2773	Mephan Ferguson Pty. Ltd. ..	Mild Steel Pipes, Mornington Peninsula ..	763	5	0
2774	Australian Cement Ltd.	2,000 tons Cement	8,800	0	0
2775	F. T. Rose	Firewood, Merbein	360	8	4
2776	M. P. Cairns and Co.	Firewood, Merbein	3,333	6	8
2780					
2781	W. H. Duffy	Firewood, Tresco	196	17	6
2782	A. B. Parker	Firewood, Merbein	362	10	0
2783	G. W. Dannatt	Firewood, Merbein	700	0	0
2784	G. W. Dannatt	Firewood, Merbein	537	10	0
2785	T. Field	Firewood, Merbein	337	10	0
2786	G. Webb	Firewood, Merbein	618	15	0
2787	I. T. Storer	Firewood, Merbein	181	5	0
2788	A. J. Storer	Firewood, Merbein	185	8	4
2789	J. H. Storer	Firewood, Merbein	262	10	0
2790	A. Algie	Firewood, Nyah	70	0	0
2791	A. J. Lindorff	Firewood, Nyah	245	0	0
2792	A. B. Jeans	Firewood, Nyah	245	0	0
2793	A. R. Mannix	Firewood, Nyah	550	0	0
2794	P. Mannix	Firewood, Nyah	625	0	0
2795	A. W. Belz	Firewood, Nyah	30	0	0
2796	Wm. Faulkhead	Firewood, Merbein	196	17	6
2797	G. W. Kelly and Lewis Pty. Ltd. ..	Spillway Gates, Eildon Reservoir ..	2,400	0	0
2798	Graham, Campbell, Ferrum Co. Pty. Ltd.	Cast Iron Pipes, Newstead	730	12	6
2799	Hume Pipe Co. (Aust.) Ltd. ..	Concrete Pipes, Newstead	460	0	0
2800	Thompson's Engineering and Pipe Co.	Steel Pipes, Merbein	593	10	0
	Small contracts at piece-work rates—				
	Loan Funds .. .. .	.. .. .	19,039	0	0
	Unemployment Relief Funds .. ..	.. .. .	9,648	0	0
	Total .. .. .	.. .. .	110,490	9	3

DIRECT LABOUR.

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

Works.	Loan Funds.		Unemployment Relief Funds.	
	£		£	
River Murray Storages (Hume Reservoir and Traffic Diversions)	38,526	..	..	..
Wimmera-Mallee System	36,365	..	39,798	..
Bellarine Peninsula	23,268	..	1,016	..
Rochester, Rodney, Shepparton, Stanhope, and Tongala Districts	20,925	..	19,294	..
Mornington Peninsula	17,672	..	11,288	..
Maffra District (Glenmaggie Reservoir) and Sale District	15,621	..	2,354	..
Eildon Reservoir	13,537	..	448	..
Merbein, Millewa, Red Cliffs, Coreena, Carwarp, and Walpeup Districts ..	8,835	..	4,298	..
Cohuna, Kerang, Kerang Lakes, Koondrook, and Mystic Park Districts ..	7,703	..	6,005	..
Goulburn Main Channels	6,253	..	..	..
Coliban District	6,061	..	5,765	..
Eppalock Reservoir	5,990	..	4,012	..
Boort, Tragowel Plains, Nyah, and Swan Hill Districts	4,378	..	4,157	..
Newstead District	3,756	..	1,804	..
Other Districts	3,571	..	6,329	..
Bacchus Marsh and Werribee Districts	3,189	..	3,370	..
Kooweerup, Cardinia, and other Flood Protection Districts	2,668	..	10,239	..
	218,318	..	120,177	..
Grand Total	£338,495			

WORKS CARRIED ON OR COMPLETED DURING THE YEAR ENDED 30TH JUNE, 1933.

Throughout the Irrigation Districts, including the area supplied from the Coliban System, the channels controlled by the Commission make a total length of 5,172 miles, being 249 miles of main channels from the Goulburn Headworks, 4,240 miles of main and distributary irrigation channels in the districts, and 683 miles of drainage channels.

In all Districts, full supplies of water were available to meet all requirements.

Essential works have been carried out in practically every district during the year, the main works, and chief items of interest, in each district being set out in the following pages.

COLIBAN SYSTEM.

From this system water is supplied to the City of Bendigo, the important towns of Castlemaine, Eaglehawk, and Maldon, and to other towns adjoining. Irrigation supplies are also given to lands in the surrounding districts. The channels and water races throughout the system now total 387 miles in length.

During the year the policy of consolidating existing works rather than undertaking the construction of any further new works for the present has been adopted, with the result that some very important improvements have been effected.

The increasing demand for water from the Coliban System and the absence of further suitable catchments in which to build storages, make it imperative to look more closely into the question of minimizing water losses, and, with this end in view, attention is now being directed to the remodelling and lining of channels with concrete. Work of this nature is being proceeded with in the main channel and in the important channel systems of Bendigo, Harcourt, and Castlemaine.

At Specimen Hill, the new high level race, 2 miles in length including $\frac{3}{4}$ of a mile of pipe syphons, has been connected to the Specimen Hill Reservoir. The boundaries of the channel reserve have been completely fenced and the channel is being lined with cement concrete. A number of old timber flumes, on the smaller channels, which had reached an advanced state of decay, were replaced with concrete structures of a larger carrying capacity. The eastern and western by-wash channels of Malmsbury Reservoir, which were damaged by flood waters in August last, have been restored in concrete. At Crusoe Reservoir new beaching has been placed on the water slope, and the crest of the embankment brought up to its original level.

At Spring Gully Reservoir, a catch-water drain about 3 miles in length has been excavated about 10 feet above high water level to prevent sand and slums from old mine workings entering the reservoir and discolouring the water.

Substantial improvements to the reticulation systems of Bendigo, Eaglehawk, and Castlemaine, have been made by way of replacements, where necessary, of small sized water mains with mains of larger diameters, an important adjunct to the reticulation of Bendigo and Eaglehawk being the new 9-inch main laid in Forest and Hill Streets. At Taradale a 5-inch cast iron main connecting the township to the main channel has been laid and is giving satisfaction. Throughout the district many miles of pipe, including a 9-inch main at Eaglehawk, were scraped with satisfactory results.

Owing to the rapid depletion of the main storages at the beginning of the irrigation season and the absence of rain, it became necessary to discontinue all supplies of water for sluicing towards the end of January, so as to ensure the domestic and irrigation requirements of the district.

IRRIGATION AND WATER SUPPLY DISTRICTS.

RODNEY DISTRICT.

In this District there are 638 miles of irrigation channels, and 18 miles of drainage channels.

The total quantity of water delivered during the past year in this District was the second largest on record, and, for the period from November onwards, a greater quantity of water was supplied than in any previous year. The very heavy and consistent demands for water late in the season were, however, satisfactorily met.

The Wyuna Main Drainage Channel has been practically all cleaned out, the work being done by excavator, and most of the new structures required have been completed. This work has already shown good results in preventing flooding, and is greatly appreciated by local landholders.

Other works carried out consisted of urgent maintenance requirements, and the replacement of original trust structures and remodelling of old channels. Surveys have been carried out for outfall and drainage schemes in the District.

DISTRICTS ADMINISTERED FROM SHEPPARTON CENTRE.

The Districts controlled from this Centre are Shepparton, North Shepparton, South Shepparton, and Katandra, in which there are 439 miles of channels, 324 miles for the supply of water for irrigation and 115 miles for drainage purposes.

A comprehensive drainage scheme for the Shepparton District was commenced during the year and substantial progress was made. This scheme involves the cleaning and enlargement of the Pine Lodge, Congupna, and Nine Mile Creeks, the provision of a drainage outfall from Katandra, and the carrying out of improvements to the existing drainage scheme in the Shepparton area.

In the North Shepparton District, the Narioka Main Channel has been completed, with all necessary structures, for a distance of 14 miles.

SWAN HILL DISTRICT.

In this District there are 104 miles of irrigation channels and 30 miles of drainage channels.

During the year, the whole drainage system at Woorinen, comprising $8\frac{1}{2}$ miles of main and 6 miles of subsidiary drainage channels, was enlarged and improved.

Extensive repairs and improvements to the Little Murray Weir have been commenced. The construction of a 200-cusec capacity channel from Lake Boga to the Swan Hill (Boga) Channel was also put in hand as an Unemployment Relief work. This channel will enable the Swan Hill District to be supplied from Torrumbarry Weir through the Kerang Lakes System without utilizing the Lower Loddon or Little Murray Rivers.

The dried fruits crop for the year was about 2,700 tons being about 300 tons greater than the previous year.

DISTRICTS ADMINISTERED FROM 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.

Major works undertaken in the Kerang District were the reconditioning of the Main Macorna Channel flumes at Nine Mile and Calivil Creeks, and the construction of a $4\frac{1}{2}$ feet diameter inverted syphon on the No. 11 tributary channel at Tragowel.

At Murrabit, the Northern Spur Channel No. 12 was extended to serve lands recently included in the Koondrook District.

DISTRICTS ADMINISTERED FROM COHUNA CENTRE.

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

The remodelling of Barr Creek, the main drainage carrier in these districts, was commenced, the work being carried out by excavator, and 25 miles of drainage channels were cleaned out.

Surveys and investigations were carried out during the year with a view to conveying the water supply for portion of the Gannawarra District through the artificially constructed channel system instead of along the Gunbower Creek as at present. This proposal will obviate the necessity of reconstructing the Cohuna Weir on the Gunbower Creek.

DISTRICTS ADMINISTERED FROM 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 605 miles. All water requirements during the past year were fully met, and necessary maintenance works were carried out.

BOORT DISTRICT.

Following a dry summer and autumn the demand for water during the last two months of the irrigation season was very heavy, but full supplies were available to meet all requirements. There has been a steady increase in the area sown with permanent pastures in this District.

In connexion with the supply of water for irrigation in the District there are 140 miles of channels.

DISTRICTS ADMINISTERED FROM ROCHESTER CENTRE.

In the Rochester and Campaspe Districts controlled from this Centre there are 381 miles of irrigation channels and 59 miles of channels for drainage purposes.

Irrigation and drainage channels in the Rochester District are being remodelled by means of an excavator, the Restdown section and greater portion of the Bamawm extension section of the Restdown-Wharparilla Main Channel being completed, as well as $3\frac{1}{2}$ miles of the Bamawm Drainage Channel Extension. Remodelling of the Deakin Main Drainage Channel is now in progress, and alterations consequent on the enlargement of this channel have been made to concrete structures.

On the Waranga Western Main Channel, repairs were carried out to the regulators at 50 miles and 56 miles. Floods in the Campaspe River caused some silting in this channel and necessitated the carrying out of some repairs to the 43 miles regulator.

In Campaspe District, work was confined to the delivery of water supplies and maintenance of the weir and channels.

DISTRICTS ADMINISTERED FROM TONGALA CENTRE.

From this Centre, the Tongala, Stanhope, Deakin, and Echuca North Districts are controlled. Irrigation channels in these Districts total 381 miles in length and drainage channels 198 miles.

The drainage system in the Tongala District has been extended, 25 miles of earthworks on spur channels having been completed. Bridges and syphons on 15 miles of these channels were constructed and similar works on the remaining 10 miles are in progress. Weed growth and silt have been removed from 21 miles of existing drainage channels.

In Stanhope District, 10 miles of the Deakin Main Drainage Channel have been cleaned and deepened by excavator, and 15 miles of spur drainage channels were cleaned out by labour gangs.

In Deakin District, the construction of an outfall channel from Yambuna Creek to the Goulburn River is practically completed, 1 mile 30 chains of earthworks and a spillway into the river for a maximum discharge of 200 cusecs having been constructed. This channel will divert run-off water from the Rodney District, thus alleviating any risk of flooding in the Kanyapella basin.

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.

The capacity of the stone-pitched channel in Myers Creek, which connects Pykes Creek Tunnel with Pykes Creek Reservoir, was increased by the raising of the side slopes for a distance of 40 chains.

Other works carried out included the remodelling and concrete lining of the Parwan Creek Channel over a length of 1 mile 4 chains, and the construction of a new channel, 50 chains long, to supply lands along the Korkuperrimul Creek.

To improve the water pressure at Dicksonia Estate in the Bacchus Marsh Urban Division, 18 chains of 4-inch diameter pipes were laid along Gisborne Road.

At Pykes Creek Reservoir, 8,000 *pinus insignis* seedlings were planted. The trees planted in 1925 are making excellent growth.

In Werribee Irrigation District, the demand for water in the past season was the greatest ever experienced, but, as a result of the concrete lining of channels, all demands were fully met. A further length of 9 miles of channels was concreted during the year. As a result of the efficient irrigation service throughout the 47 miles of channels the progress of the District is being maintained. There are also 24 miles of drainage channels in the District. The usual runs of water for domestic and stock purposes were made to lands in the Waterworks District served from 24 miles of channel.

MERBEIN DISTRICT.

In this District there are 54 miles of irrigation channels and 3 miles of drainage channels. The detail survey of the channel system, referred to in the last Annual Report, has been practically completed.

Five general waterings and one special watering were given during the year, and all requirements were met. In connexion with the watering of this District, investigations are being carried out with a view to installing an additional pumping unit.

Several requests for drainage schemes were made by settlers to the Commission and, preliminary investigations having been made, the proposals are now receiving consideration.

The production of dried and citrus fruits in the District was very satisfactory, and growers have experienced most profitable returns.

RED CLIFFS DISTRICT.

Throughout this District, there are 124 miles of channels for the supply of water for irrigation. All demands for water during the past year were met, five general irrigations being provided.

A scheme for the drainage of lands in the Cardross area has been approved, half of the cost is to be met by the settlers concerned and half has been granted from the Unemployment Relief funds. Several small drainage schemes have also been carried out by settlers themselves.

To minimize seepage troubles, improvements have been carried out to concrete channels in the District.

The dried fruits crop for the past season amounted to over 17,000 tons from 11,000 acres and its value totalled £600,000.

A number of new residences and business places were erected in the township of Red Cliffs during the year, and were all connected to the urban water service.

NYAH DISTRICT.

The channels in this District make a total length of 53 miles, 35 miles being for irrigation and 18 miles for drainage purposes. All requirements for irrigation were met satisfactorily during the year.

Grants by the Government from Unemployment Relief funds have enabled the Commission to put in hand improvement works to the drainage and irrigation channel systems, and have assisted towards the cost of installing larger pipes mains in the Nyah township.

DISTRICTS ADMINISTERED FROM TRESCO CENTRE.

In Mystic Park District there are 32 miles of channels, all for irrigation. In Tresco District irrigation channels total 18 miles in length and drainage channels 32 miles, while in Fish Point District there are 15 miles of irrigation channels and 1 mile of drainage channels.

Full water supplies were provided by gravitation for all irrigators in the Mystic Park and Fish Point Districts. Requirements at Tresco were met by three general waterings and a special watering for deciduous fruits. The total amount of water pumped for the Tresco District this year was equal to a depth of 33 inches over the area irrigated.

Considerable improvements to the irrigation and drainage systems in these Districts have been carried out under Unemployment Relief conditions, and works to limit the spread of Avoca River flood waters through the Mystic Park District have been put in hand. These works will also reduce flooding of the marginal lands around the Avoca Marsh.

In the Kerang North-West Lakes District there are 63 miles of channels, all constructed for the irrigation of lands. Owing to the dry autumn, private diverters watered a considerably greater area than during the previous year. By the construction of $1\frac{1}{2}$ miles of levee bank between Lake Boga and the Little Murray River, a permanent floodway to carry flood waters to the Little Murray River has been completed.

MAFFRA-SALE DISTRICTS.

Throughout these Districts, there are 186 miles of irrigation channels and 54 miles of drainage channels.

The progressive development of these districts has been maintained, and, although a very favorable Spring delayed the demand for water for irrigation until December, the season from then on was particularly dry, a total area of 18,300 acres including 1,300 acres of sugar beet being irrigated.

To meet the increasing demand for irrigation supplies in the Sale District, the main Northern and Main Sale Channels were remodelled for a length of $10\frac{3}{4}$ miles. Along a section of 2 miles of the Main Northern Channel a concrete core wall was constructed to overcome the difficulties encountered by gravel seams in the clay and some 36 chains were lined with concrete.

On the Boisdale-Stratford Channel two more 6-foot diameter syphons were constructed for cross drainage purposes, bringing the total length to $5\frac{1}{2}$ chains.

The benefits resulting from irrigation in this District are being more fully realized, many requests for extensions of the channels to additional areas being received. During the year $4\frac{1}{4}$ miles of channels were constructed in Tinamba to supply an area of 1,860 acres, and 62 chains of channel to supply 450 acres at Newry were also provided. Consideration is also being given to a request from Bundalaguah for the extension of channels to supply an additional area of 1,400 acres.

Further extensions of the drainage system were made during the year, $3\frac{1}{4}$ miles of drainage channels being constructed in the Sale District and $2\frac{1}{2}$ miles in the Maffra District.

The Commission proposes to transfer its office to a more central site, and for this purpose a suitable block of land has been purchased in the town of Maffra.

INVESTIGATIONS OF NEW IRRIGATION AND WATER SUPPLY PROPOSALS.

In connexion with the proposed supply of water from the Hume Reservoir on the River Murray for the irrigation of lands in Yarrawonga and Cobram areas, surveys have been further extended of lands likely to be submerged or alienated by the proposed construction of a weir at Yarrawonga. Boring investigations in connexion therewith have been extended with satisfactory results. A tentative scheme for the Murray Valley Irrigation Area has been prepared and submitted to the landholders within that area, and, by a ballot, a majority of landholders expressed a desire for the completion of surveys and investigations with relation to this scheme. Surveys are now in hand for the location of a channel line connecting the River Murray at Yarrawonga with the Goulburn System.

Surveys in connexion with the proposed remodelling of Barr Creek to improve drainage facilities for Cohuna and Leitchville Districts have been completed and construction work is now in hand. A preliminary estimate for a drainage scheme for lands in East Kerang has been prepared and submitted for consideration by interested landholders. In Merbein District, surveys in regard to proposed improvements of the existing irrigation channel system have been practically completed. Surveys have been carried out on behalf of the Closer Settlement Commission in respect to a probable drainage scheme for Oaklands Estate at Fernihurst. Surveys are now in hand in connexion with the drainage scheme for Shepparton District, and the further extension of Tongala District drainage scheme.

At the Laanecoorie Weir on the Loddon River it is proposed to carry out certain works to provide means for passing safely all floods equal in intensity to that of the year 1909, and for passing, without overtopping the main embankment, considerably greater floods.

In regard to the proposed scheme to provide reticulated water supplies to the townships of Warrnambool, Camperdown, and Terang, in the Western District, surveys are now being carried out, and it is anticipated that the work will be advanced sufficiently in the next few months to provide data to enable a detailed estimate of cost of the proposal to be made. As mentioned in the last Annual Report, the water for this scheme will be drawn from the Arkins Creek branch of the Carlisle River in the Otway Ranges.

Further investigations have been made with regard to the proposed domestic and stock channel supply to an area of 213 square miles of agricultural country east of the Avoca River between Quambatook and Normanville. If proceeded with, the supply to 79 square miles of this area must be carried out by pumping.

WATERWORKS DISTRICTS.

CARWARP AND CARWARP CENTRAL DISTRICTS.

All the channels, totalling 154 miles in length, in these Districts were run during the year, and the full water requirements for domestic and stock purposes were made available by pumping from the River Murray at Red Cliffs. The watering, which occupied 72 days, is the shortest to date, and was due to the improved condition of the channels, as well as the favorable season.

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 connected to the channels.

YELTA DISTRICT.

The usual supply of water was provided for this District during the year from the Merbein Pumping Station. The total length of channels in the District is 50 miles.

MILLEWA AND MILLEWA CENTRAL DISTRICTS.

In these Districts there are 687 miles of channels. Full supplies of water were provided for domestic and stock purposes during the ninth annual watering. The channel system was improved and many structures were installed, with satisfactory results, from funds provided under the Unemployment Relief Acts.

In connexion with the reticulated supply to the township of Werrimull, an auxiliary pumping engine has been installed to cope with the increasing demands for water which the windmill pumps are unable to meet in peak periods.

WIMMERA-MALLEE WATER SUPPLY.

During the year, water for domestic and stock purposes was supplied through the 6,155 miles of channels comprising the Wimmera-Mallee System to all holdings in its area of 11,000 square miles. Full supplies were also provided within the area for the towns controlled by Waterworks Trusts, as well as for the following Urban Districts which have pipe reticulation systems operated by the Commission and number 37 in all:—

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

As anticipated in the previous Report, the season proved favorable and no very serious trouble was experienced with sand drift in the channels of the system, except in those places which are always more or less troublesome. It is expected that the coming season, with the good growth of vegetation now in evidence, will be equally favorable.

The period occupied in running the 6,155 miles of Commission's channels in the system and the 4,000 miles of farmers' connecting channels has been considerably reduced. This is due chiefly to the fact that the main channels in the system are being given special attention by enlargement, clay lining in sandy sections, and general improvement to reduce losses by seepage.

In connexion with the Glenelg River diversion channel, a regulating basin, of some 5,100 acre-feet capacity, at the Moora swamp has been practically completed from funds provided under the Unemployment Relief Acts. This basin will further augment the supplies of water available from the Glenelg River by enabling the main channel to be kept running full throughout the diversion season when the flow in the river is insufficient to provide the full channel of 100 cusecs. Although the year has been favorable from an agricultural point of view, the light run-off in the Wimmera and Grampians water catchments was not enough to overflow all the storage reservoirs of the system; however, sufficient water was stored to maintain full supplies for all requirements and to provide substantial reserves for the present season.

The work of enlarging the Lake Lonsdale Reservoir, by extending and raising the concrete bywash 15 inches, has been completed, and is ready for filling to the new capacity of 53,300 acre-feet, an increase of 7,820 acre-feet. Green Lake and Dock Lake Reservoirs have been completed to a capacity of 6,600 and 4,800 acre-feet respectively, and, during the year, the irrigation supplies for the Riverside, Burnlea, and Young's settlements, near Horsham, were given from Dock Lake, thus obviating the uneconomical and wasteful distribution of water from the Wartook Reservoir 60 miles distant. With the completion of the outlet channel to Haven in the next few months, water for irrigation purposes in Quantong and Haven settlements will be given from Green Lake during the coming season.

In connexion with the supply of water by meter to the Borough of Horsham Waterworks Trust from the Mount Zero Scheme, to meet the increasing demands of that township, 8½ miles of 18-inch diameter concrete-lined steel main have been laid, and a temporary supply is now being given through the main, pending the transfer of the existing 12-inch diameter main to connect with the new pipe head storage of 42 acre-feet capacity now being constructed on the slopes of Mount Zero. This storage will be filled from the Mount Zero channel, the construction of which is now well in hand. It is expected that supplies will be given from the new storage for the coming summer, when the water pressure in the town will be doubled and ample supplies will be available to meet all existing requirements and probable development for some years.

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

In the area south of Horsham, 32 miles of channels were constructed, chiefly in connexion with the Mount Zero Scheme and the supply of water to the various irrigation settlements in the vicinity. Additional water storage is being constructed at Watchem for the town supply; several minor extensions of pipe mains have been made in the Urban Districts of Patchewollock, Dimboola, and Rupanyup to supply new tenements; and improvements are being carried out to the main distribution system in the township of Dimboola.

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

In the areas where channels are seriously affected by sand drift, steps have been undertaken to minimize the trouble by shortening the channel routes by cuttings and embankments. Special attention is being given to protecting the tops of ridges adjacent to these cuttings by fencing in reserves to induce the natural growth of vegetation and to protect planted shrubs.

Two miles of new channels were constructed to supply allotments hitherto unsupplied, and 15 miles of long privately constructed channels have been taken over and remodelled.

Works carried out to minimize the trouble from seepage on the Tyrrell West, Dennyng and Wycheproof-Goschen Main Channels, have proved satisfactory; further lengths of these channels require treatment, and this work will be carried out as circumstances permit.

Two new public tanks connected to channels are being constructed in the parishes of Baring and Baring North to provide water adjacent to unsupplied high allotments.

In Urban Districts, new additions to the town storages at Nyah West and Chinkapook were completed; additional storages and improvements are being constructed at Manangatang and Ouyen; and extensions of reticulation pipes have been carried out at Birchip, Manangatang, Nyah West, and Ouyen to provide water to premises hitherto unsupplied.

NEWSTEAD DISTRICT.

The works of this District have been further advanced and the Newstead Waterworks District has been constituted. The supply channel from Jim Crow Creek, a tributary of the Loddon River, to the storage basins of some 40,000 cubic yards capacity is practically completed, and a commencement is being made to lay the main delivery pipe to the township of Newstead. It is anticipated that the reticulation system in the township will be completed in readiness for the coming summer.

MORNINGTON PENINSULA DISTRICTS.

The Commission decided, in response to representations made by residents in the District, to change the name of the new Eumemmerring Reservoir to that of Lysterfield Reservoir.

Considerable progress was made during the year with the raising of the embankment of the Lysterfield Reservoir with funds granted for that purpose by the Government for the relief of unemployment, the storage capacity being further increased to 3,400 acre-feet. It is anticipated that this work will be completed to enable the filling of the reservoir this season. The volume at present stored is 1,000 acre-feet.

The construction of the outlet channel from the Lysterfield Reservoir, and also the chemical clarifying plant, settling basins and service reservoirs, to be used in conjunction with the new Hallam-Chelsea Pipe Line for the reinforcement of the water supply to the bayside townships from Frankston to Aspendale, is well advanced. Good progress has also been made with the laying of the 18-inch, 21-inch, and 24-inch diameter mains for the Hallam-Chelsea Pipe Line and it is expected that the whole work will be completed in ample time for the coming summer season.

Unemployment Relief funds being made available, work on the Cranbourne-Langwarrin-Hastings channel was commenced, and good progress is being made. This work will permit of the construction, on the high lands in the parish of Bittern, some 4 miles west of the Hastings township, of a new storage basin which will make available an increased storage capacity for the Naval Base supply. The basin will also be at an elevation sufficiently high to command, by gravitation,

the water supply to the important townships of Dromana, Rosebud, Rye, Sorrento, and Portsea, on Port Phillip Bay, as well as the popular seaside resorts of Palm Beach and Balnarring on Western Port Bay.

A commencement was made with the construction of a storage basin to augment the supplies to the townships of Bunyip and Garfield, and it is proposed to carry out works to increase the storage capacity of the Mornington Reservoir.

BELLARINE PENINSULA DISTRICTS.

The main supply pipe to the Peninsula from Waurin Ponds pipe head basin has been completed to the Bellarine Main Storage, and the distributary mains to the service basins at Queenscliff and Barwon Heads have been laid.

Pipe reticulations of Queenscliff, Point Lonsdale, Ocean Grove, and Barwon Heads were installed during the year, and water was available in the mains for the summer season. Urban Districts have been proclaimed in respect of these townships.

Tenders have been accepted for the delivery and laying of the necessary mains for the supply of water to the Drysdale and Portarlington service basins which are almost completed. Steps are being taken to secure the pipes for the reticulation of these townships which it is expected will have water available for the coming Summer.

Final surveys are being carried out for the channels to supply Torquay and Anglesea, and a commencement is being made with the construction of such channels as a first step towards providing these towns with water.

Improvements to the main inlet and outlet channels to the main storage reservoir at Wurdee Boluc have been undertaken from funds provided under the Unemployment Relief Acts.

During the year under review 333,000,000 gallons of water were supplied from this scheme to the Geelong Waterworks and Sewerage Trust. By arrangement, the Trust made two connexions with the Commission's Bellarine main to further augment the supply to the City of Geelong.

WONTHAGGI DISTRICT.

The main storage reservoir at Lance Creek contained ample water for all requirements. Little trouble was experienced with algal growths, a single treatment with copper sulphate being sufficient to keep the algae in check. The 12-inch main from the reservoir to the town and the service basin were cleaned out, and the works were maintained in a satisfactory condition.

NORTHERN MALLEE WATER SUPPLY.

During the year work in the Northern Mallee Areas, outside the boundaries of the Commission's Waterworks Districts, has been confined to experimental work with oil films to reduce evaporation losses from open earthen storages.

BORES.

The total number of Government bores supplying water to settlers in the Northern Mallee is 109. These are all within the Walpeup West Waterworks District, and have been maintained by the Commission during the year. Arrangements have been made for the sinking of two bores along the Desert Track between Nhill and Murrayville in the Lowan Shire.

TANKS.

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

ARTIFICIAL CATCHMENTS.

Consideration is being given to the provision of domestic and stock water supplies for settlers in the Mallee areas which are too high or too difficult to be commanded from the existing channel systems. Negotiations are in progress with the Closer Settlement Commission whereby the Water Commission will undertake on their behalf the work of constructing artificial catchments on approved holdings.

WINDMILLS.

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

ROADS.

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

DRAINAGE AND FLOOD PROTECTION SCHEMES.

KOOWEERUP AND CARDINIA.

In these two Districts there are 410 miles of drainage channels controlled by the Commission.

During the year the Commission has considerably enlarged several existing drains and has carried out extensive maintenance work in the Kooweerup and Cardinia Districts, mainly as Unemployment Relief Works.

In the Kooweerup District, the enlargement by dredger of the No. 6 Yallock Drain has been extended for 72 chains, and an additional machine is now operating on this drain to expedite progress. By means of horse teams Walker's Drain was extended for 30 chains, a levee bank along the east side of the Main Drain was constructed for 90 chains above the Coast Road, and McDonald's Catch Drain was considerably enlarged for $3\frac{1}{2}$ miles. In this manner, Batty's Island Drain was also extended for 90 chains to the 10-Mile Drain, and minor earthworks were carried out throughout the District.

In the Cardinia District, two dragline excavators have completed the enlargement of the Toomuc Catch Drain for 38 chains, extended Hagelthorn's Drain for 34 chains to the Kooweerup-Pakenham Road, and reconditioned the Cardinia Channel for a distance of $4\frac{1}{4}$ miles above Mank's Road. The large Main Western Contour Drain was extended for a distance of 74 chains to a point near the South Gippsland Railway Line by means of a bucket dredger. Remodelling and extension of Mank's Road Drain for 160 chains from the Toomuc to McGregor's Drains and the construction of Burhop's Drain for 40 chains were carried out with horse teams, as were other minor earthworks in the District.

In the two Districts about 175,000 cubic yards of earthwork were removed, including 132,000 cubic yards by mechanical excavators and 43,000 cubic yards by horse work or manual labour.

Maintenance work has embraced the removal of growth from the Main Drainage reserves, the remodelling and regrading of subsidiary and minor drains for a total length of about 240 miles, and repairs to bridges and structures.

New structural work carried out included the erection of 3 large and 6 small timber bridges, 8 pipe outlets and drops, 2 concrete regulators, 2 miles of fencing, and other minor works.

Privately owned suction plants, operating under an arrangement with the Commission, have removed 9,000 tons of coarse clean sand from the Kooweerup Main Canal during the year. The total output of sand to date is 275,000 tons.

ECHUCA.

The levee banks in this District once again proved effective for the purpose for which they were designed and constructed.

LOCH GARRY.

Flood conditions prevailed in the Goulburn River during the months of July, August, and September, 1932, and it became necessary to open the bars in the spillway at the Loch Garry Regulator. As on previous occasions, the works completely fulfilled the purpose for which they were constructed, the effect in this instance being to reduce the flooding period of lands within the District from 50 days to 7 days.

KANYAPELLA.

This District was again protected from flooding from the Goulburn River by works constructed for that purpose. Some water did, however, reach the District from the Campaspe River but no damage was done. An investigation survey has been made for the continuation of the present levee bank for approximately $1\frac{1}{2}$ miles along the Goulburn River in a westerly direction to protect lands on the east and south-east of the Echuca Village Settlement.

CARRUM.

The completion of the work of enlarging the Eumemmerring Creek will, in addition to preventing the flood waters of this Creek from overflowing at McDonald's Embankment on to the closely occupied farming area of Carrum adjoining Well's Road between Mordialloc and Carrum, enable a proposed canal, known as the Eastern Contour Drain, to be constructed in the Parish of Lyndhurst in such a position as to collect the whole of the drainage water from an area of approximately 54 square miles of the high lands of Cranbourne and discharge it into the new

Eumemmerring Creek on the west side of the Frankston-Dandenong Road. This water from the Cranbourne high lands drains on to a large area of farm lands below, flooding them after heavy rains, sometimes as many as three times in a year during wet seasons.

The construction of this canal has been commenced as an Unemployment Relief work, and is being carried out by horse teams and a bucket dredger. Sufficient progress has already been made with the work to enable the diversion of these flood waters to be made into the canal before the wet season commences. This should prove of great benefit to the farmers affected.

On completion of the Eastern Contour Drain, the dredger will be transferred to Pillar's Bridge to commence the work of diverting the flood waters of the Dandenong Creek into the new Eumemmerring Creek. This water at present floods a large area of farm lands in the Keysborough District, between Pillar's Bridge and Mordialloc. The flood waters from the Dandenong Creek will then discharge through the Paterson River into the sea at Carrum instead of at Mordialloc as at present.

MURRAY LEVEES.

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

RIVER EROSION, DRAINAGE, AND GENERAL.

During the year many applications for permission to construct flood protection, drainage, and other works were received, and where investigation showed that proposals were reasonable, permission under the provisions of the *Water Act* 1928 was granted, the works to be carried out at the cost of the applicants.

Many requests were received for grants from the "Rivers and Streams Fund." After investigation, and on the recommendation of the Honorable the Commissioner of Public Works, a number of grants, to Councils and landholders, towards the cost of removal of obstructions in rivers and streams and of the prevention of the erosion of the banks thereof, was approved. The estimated cost of works approved during the year is £12,670, of which £5,094 is to be contributed by the Councils or landowners concerned, and £7,576 is to be granted by the Government from the Fund.

With a view to formulating schemes for flood protection and drainage, surveys were made during the year of the Fitzroy River in the Shire of Portland and of the Black Swamp in the Shire of Wangaratta, and surveys of the Ovens River from Wangaratta upstream are now being carried out.

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.

During the year a new gauging station was established on the Campaspe River at Ashbourne. As sufficient information has been obtained in regard to the behaviour of Jackson's and Emu Creeks at Sunbury, and Deep Creek at Bulla, the gauging of these streams has been discontinued. The number of gauging stations now in operation in the State is 61.

DIVERSION OF WATER.

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

The seasonal conditions during the year were favorable to the use of water for irrigation, but, owing to other circumstances, the demand for authority to divert water was below that for the previous year.

Authorized diversions now in force are :—

Yearly permits	..	..	..	..	..	1,574
Flood permits	..	..	..	..	..	1
Licences	..	..	..	..	..	12
						<hr/>
Total	..	..	..	..	..	1,587

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, the extension of the Eastern Goulburn Main Channel for a distance of nearly 2 miles has been completed, and the first mile of the Dunbulbalane Main Spur Channel has been constructed.

Further beaching of the side slopes of deep sections of the Eastern Goulburn Main Channel, as enlarged from the Goulburn Storage to a point 5 miles therefrom, has been carried out. The timber gates at the off-take from the Goulburn Storage have been renewed, and protective work, to prevent erosion of the river bank at the Broken River Syphon, has been carried out.

On the Waranga Western Main Channel, the resetting of beaching stone on Section 1, and the blasting out of hard bars to provide additional waterway, were carried out as opportunity permitted. The old flood regulator at Bullock Creek has been remodelled and leakage materially reduced.

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 completed, the slopes dressed to the required section, and, at the eastern end, a quantity of rock-fill tipped as a protection against scour.

The new outlet works, including two lines of pressure pipes, $6\frac{1}{2}$ feet in diameter, and control valves, were practically completed and, in regulating the discharge of water for irrigation requirements, were operated under heads of 50 feet to 100 feet.

The installation of six flood control gates in the spillway gap at R.L. 808 was commenced, all pier extensions below that level being completed, and three piers in the gap commenced. All guides and operating machinery for the gates have been delivered at the Reservoir. On completion of this work the original capacity of 306,000 acre feet will be again available for storage.

Regular observations were continued throughout the period and have shown consistently satisfactory results for the work so far completed.

EPPALOCK RESERVOIR.

In December, 1932, it was decided by the Victorian Government that only such work as would be sufficient to provide a storage of 300,000,000 gallons, and would protect the foundations already prepared, was to be undertaken. This work was completed, 4,400 cubic yards of concrete being placed.

All construction work having been discontinued, the works were closed down, and arrangements made for the plant and buildings to be transferred to other works.

TOTAL STORAGES IN STATE.

In 1902 the total capacity of storages in the State was 172,000 acre feet. The present capacity is 1,543,820 acre feet, and when the Glenmaggie and Bittern Reservoirs, the Yarrawonga Weir, and the Euston Lock Weir are completed the total capacity will be about 1,627,520 acre feet. The Hume Reservoir, in course of construction, will, unless otherwise decided by the Commonwealth and State Governments, contain 2,000,000 acre feet, half of which can, subject to the provisions of the River Murray Agreement, be credited to the State of Victoria. The following statement sets out the capacities of the various storages in the State:—

EXISTING STORAGES.								Capacities in Acre Feet.	
<i>Goulburn System—</i>									
Goulburn Weir	..	..	..	..	..	..	..	20,700	
Waranga	..	..	..	..	..	..	..	333,400	
Eildon (200,000 acre feet capacity this year)	..	..	..	..	..	..	..	306,000	
									660,100
<i>Murray-Loddon System—</i>									
Hume Reservoir (part of 2,000,000 acre feet—half share)	..	..	..	..	..	..	..	260,000	
Torrumbarry (half share of 26,000 acre feet)	..	..	..	..	..	..	..	13,000	
Mildura (half share of 34,000 acre feet)	..	..	..	..	..	..	..	17,000	
Wentworth (half share of 20,000 acre feet)	..	..	..	..	..	..	..	10,000	
Kow Swamp	..	..	..	..	..	..	..	40,860	
Laanecoorie	..	..	..	..	..	..	..	6,650	
Kerang North-West Lakes	..	..	..	..	..	..	..	92,000	
Lake Boga	..	..	..	..	..	..	..	28,000	
Long Lake	..	..	..	..	..	..	..	3,820	
									471,330
<i>Wimmera-Mallee System—</i>									
Fyans Lake	..	..	..	..	..	..	..	17,100	
Lake Lonsdale	..	..	..	..	..	..	..	53,300	
Wartook	..	..	..	..	..	..	..	23,800	
Taylor's Lake	..	..	..	..	..	..	..	30,000	
Pine Lake	..	..	..	..	..	..	..	52,000	
Green Lake	..	..	..	..	..	..	..	6,600	
Dock Lake	..	..	..	..	..	..	..	4,800	
Moora	..	..	..	..	..	..	..	5,100	
Lower Wimmera Weirs	..	..	..	..	..	..	..	2,870	
Batyo Catyo (Avon Regulator)	..	..	..	..	..	..	..	5,000	
Lake Whitton	..	..	..	..	..	..	..	1,300	
Earthen Storages, Township Reservoirs, and Mallee Tanks	..	..	..	..	..	..	..	5,740	
									207,610
<i>Maffra-Sale System—</i>									
Glenmaggie Reservoir (part of 150,000 acre feet)	..	..	..	..	..	..	..	..	104,500
<i>Coliban System—</i>									
Upper Coliban	..	..	..	..	..	..	..	25,700	
Malmsbury	..	..	..	..	..	..	..	12,300	
Spring Gully	..	..	..	..	..	..	..	2,000	
Subsidiary Reservoirs	..	..	..	..	..	..	..	4,970	
									44,970
<i>Werribee—</i>									
Pykes Creek	..	..	..	..	..	..	..	21,000	
Melton	..	..	..	..	..	..	..	17,000	
									38,000
<i>Bellarine Peninsula System—</i>									
Wurdee Boluc	..	..	..	..	..	..	..	10,000	
Service Basins	..	..	..	..	..	..	..	600	
									10,600
<i>Mornington Peninsula System—</i>									
Lysterfield Reservoir	..	..	..	..	..	..	..	3,400	
Beaconsfield, Frankston, and Mornington Reservoirs	..	..	..	..	..	..	..	1,560	
Service Basins	..	..	..	..	..	..	..	200	
									5,160
<i>Miscellaneous—</i>									
Wonthaggi	..	..	..	..	..	..	..	..	1,550
Total capacity of existing Storages	..	..	..	..	..	..	..	..	1,543,820

ADDITIONAL STORAGE BEING PROVIDED BY WORKS APPROVED OR IN COURSE OF CONSTRUCTION.

<i>Maffra-Sale System—</i>									
Glenmaggie Reservoir (balance of 150,000 acre feet)	..	..	..	..	..	..	..	45,500	
<i>Mornington Peninsula System—</i>									
Bittern Reservoir	..	..	..	..	..	..	..	1,200	
<i>Murray System—</i>									
Hume Reservoir, at junction with Mitta River (half-share of balance of 2,000,000 acre feet)	..	..	..	..	..	..	..	740,000	
Yarrawonga Weir (half share of 50,000 acre feet)	..	..	..	..	..	..	..	25,000	
Euston Lock Weir (half share of 24,000 acre feet)	..	..	..	..	..	..	..	12,000	
Total capacity of Storages when works are completed	..	..	..	..	..	..	..	2,367,520	

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.

As a result of a conference of Ministers representing the four parties to the River Murray Agreement, held at the Hume Reservoir in November, 1932, the River Murray Commission has given consideration to the question of the proportion of cost that should be borne by each Government in regard to the proposed construction of the following works:—(1) barrages at the mouth of the River Murray, (2) two weirs in the River Murrumbidgee, (3) the Yarrawonga Diversion Weir on the River Murray, and (4) a roadway over the Hume Reservoir. The report and recommendations of the Commission have been forwarded to the various Governments for consideration.

With a view to taking steps to ensure the effective protection of the catchment of the Hume Reservoir, the River Murray Commission has made arrangements to confer with the Forestry and Lands Authorities in the States of New South Wales and Victoria.

The Constructing Authority for South Australia completed the repair works, necessitated by the floods of 1931, at the Lake Victoria Storage. Work was continued at Weirs and Locks Nos. 7 and 8, and it is expected that both will be completed during the coming year. With the completion of these works, the eleven weirs and locks between the river mouth and Mildura, provided for in the River Murray Agreement, will have been constructed.

At Weir and Lock No. 15 at Euston, for which New South Wales is the Constructing Authority, the work is still suspended owing to shortage of funds.

HUME RESERVOIR.

During the year the New South Wales Constructing Authority has been engaged on the Hume Reservoir within its territory. The main work carried out in this portion of the dam was the raising of the concrete spillway to R.L. 580 to enable the capacity of the storage to be raised to 520,000 acre-feet.

In Victoria, the work of constructing the Main Embankment and Bank No. 2 was further advanced by the Water Commission. The height of the embankment over its entire length was brought to the average of 112 feet above the river flats. During the year 114,516 cubic yards of earthwork were placed in the embankments, 2,093 cubic yards of concrete and 41 tons of steel reinforcement in the corewall, 1,824 cubic yards of gravel beaching on the downstream faces, and 21,576 square yards of concrete paving on the upstream faces of both embankments, 48 tons of steel reinforcement being used in the facing of Bank No. 2 and 4,367 concrete drainage slabs being also placed behind the corewall.

Contracts for two sections of the Upper Murray Valley Road deviation between Talgarno and Granya were let, and construction commenced by the Victorian Country Roads Board on behalf of the Water Commission. Work remaining to be done in connexion with the railway deviations was completed by the Victorian Railways Department by November, 1932.

PROPOSED WEIR AT YARRAWONGA.

It having been decided that this work be constructed by the Constructing Authority for Victoria, further investigatory boring and surveys were undertaken and plans and estimates are being prepared by the Water Commission in co-operation with the Public Works Department of New South Wales.

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 Bendigo and Ballarat Sewerage Authorities continued to extend the reticulation sewers to serve the outer areas, the sewerage of the whole of the city areas in both centres being completed.

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

The Swan Hill and Warrnambool Sewerage Authorities have made good progress with the construction of works, and a commencement has been made with the connexion of houses to the sewers.

The Horsham Sewerage Authority is proceeding with the construction of works.

The Wangaratta Sewerage Authority was constituted and is now proceeding with a detail survey of its district prior to the preparation of final designs and specifications for works.

Sewerage Authorities were constituted at Kerang and Bairnsdale and preparations are being made for the detailed surveys.

Applications for the constitution of Sewerage Authorities at Benalla and Castlemaine were examined and the schemes generally approved.

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 Moe Waterworks Trust was constituted to construct works for the supply of water to the township of Moe.

The Ararat Borough Council is proceeding with the enlargement of Oliver's Gully Reservoir. The completion of this work will provide an assured supply for all purposes.

The Euroa Waterworks Trust constructed a weir on Seven Creeks near Strathbogie to provide sufficient storage to enable a continuous supply to be drawn from this source.

The Kyneton Waterworks Trust laid a larger pipe main from the service basin to the town, and this work, with the extensive improvements made in the reticulation system, will give a much improved service.

The Ripon Shire Council, Local Governing Body, raised and strengthened the embankment at Jonathan's Reservoir to provide additional storage to meet the increasing demands of the town of Beaufort; the Hamilton Waterworks Trust enlarged a further section of the 23-mile main pipe line leading from the Grampians to the town; and the Broadford Waterworks Trust is constructing a storage basin to supplement the summer supply.

To provide an assured supply during the summer months, the Traralgon Waterworks Trust is constructing a storage reservoir near the town, while the Yarram Waterworks Trust is enlarging a section of its main pipe line from the Tarra River and increasing the capacity of its service basin.

Pipe extensions and other works were carried out at Bairnsdale, Colac, Dunolly, Hepburn, Kilmore, Korumburra, Kyabram, Lorne, Maffra, Mansfield, Orbost, Portland, Wangaratta, Winchelsea, and Woodend.

New electric pumping plants were installed by the Mildura, Mooropna, Numurkah, Swan Hill, and Tallangatta Waterworks Trusts.

Investigations were made in connexion with proposed water supply schemes for Myrtleford and Tallygaroopna, and for increased storage at Gisborne, Kilmore, and Upper Macedon.

PROGRESS IN IRRIGATION DISTRICTS.

With the coming into operation of the *Closer Settlement Act* 1932, the control of closer settlement in Irrigation Areas was transferred to the newly constituted Closer Settlement Commission as from 1st March, 1933.

The progress made in Irrigation Districts throughout the State has been maintained and the benefits derived from the supply of water for irrigation purposes during the summer months have been very pronounced.

The report of the Standard Herd Test for 1932-33, conducted by the Department of Agriculture, again affords striking proof of the benefits derived by dairying under irrigated conditions. This test was exceptional for the large number of entries (no fewer than 2,862 cows being tested) and for the high butter fat yields obtained. Notwithstanding the fact that the seasonal conditions throughout the year were generally excellent for dairying, the results of the test have emphasized, probably more so than in previous years, the advantages of irrigation, which ensures an ample supply of green fodder during the dry months of the year. The herds gaining first, second and third places on the order of merit list with 584.19 lb., 581.43 lb., and 569.55 lb. of butter fat respectively, were all grazed on irrigated pastures in the Tongala East, Maffra, and Stanhope Districts.

The prize for the champion highest individual return (730 lb. butter fat) was also gained by a cow in the Tongala Irrigation District, this cow being reserve champion in the previous year's tests.

Four of the first ten herds which averaged more than 520 lb. of butter fat per cow in 1932-33 were also grazed on irrigated lands, although these areas contain only about 10 per cent. of the cows in the State.

Following upon the somewhat light crop of dried currants, sultanas, and lexias which was harvested in the 1932 season, the vines in the Irrigation Areas of Victoria have borne heavily during 1933 and the production this year approximated 50,000 tons, comprising some 8,000 tons of currants, 38,000 tons of sultanas, and 4,000 tons of lexias. This quantity is in excess of any previous year's production, and, as favorable weather was experienced during drying operations, the quality of the fruit is of an exceptionally high standard. The total Australian output of dried vine fruits for 1933 season amounted to some 78,000 tons, the Victorian proportion of the pack being approximately 65 per cent. The Red Cliffs Irrigation District, which some twelve years ago was in its virgin state, now supports a local population of some 3,000 persons, and from its cultivated area of 11,000 acres produced this year a crop of over 17,000 tons of dried fruits valued at £600,000. The prices realized for the sale of sultanas in the United Kingdom have been on a lower scale than in recent years owing to the large quantities of fruit marketed by California and Mediterranean countries. Prices of currants and lexias have, however, been maintained, whilst clearances of satisfactory quantities of all varieties of fruit have been effected in Great Britain.

The Victorian production of canned apricots, peaches, and pears for the 1933 season proved to be the highest on record and amounted to no less than 35,500,000 cans. This quantity represents practically 73 per cent. of the total Australian pack of these fruits which also considerably exceeded the production of any previous year. The Co-operative Canneries in the irrigated areas of the Goulburn Valley again produced the bulk of the Victorian output, their proportion being approximately 67 per cent. of the total for Victoria. Practically the whole of the canned apricots, peaches, and pears produced by Victorian manufacturers are grown in the northern areas, and it will be realized that this industry, which is made possible only by the application of irrigation, provides a substantial contribution to the

wealth of the State. In consequence of the reduced consumption of canned fruits in Australia and in certain export markets owing to economic conditions, a larger proportion of the present season's pack than previously will have to be exported to Great Britain. Exports to Eastern Markets during 1932, however, showed an increase of 67 per cent. over those of 1931, which was the previous record. The Co-operative Canneries in the Goulburn Valley Irrigation Areas again secured the leading awards at the Imperial Fruit Show held at Birmingham, England, open to all canners throughout the British Empire.

A heavy production of citrus fruits was recorded throughout the Irrigation Areas of this State during the past season. The marketing problems associated with the disposal of the pack were, however, rendered more difficult by reason of the embargo (since partially removed) which was imposed by the New Zealand Government upon the importation of Australian citrus fruits. The markets of that Dominion during past years have absorbed considerable quantities of Australian citrus at satisfactory prices, thereby assisting in the disposal of the surplus Australian production. The operation of the embargo consequently had a depressing effect upon prices ruling within the Commonwealth. With a view to formulating measures for the stabilization of the citrus industry, a Committee has been appointed comprising interstate representatives of the growers and of the various interested departments of the Commonwealth and State Governments. This committee, on which the Commission has representation, will, in addition to investigating matters relative to improved production methods, also deal with the question of developing the existing export markets and finding new outlets for the disposal of the Australian production of citrus fruits.

At the Royal Agricultural Show this year, stock from Irrigation Districts were again successful in securing many of the principal awards. The prize offered by the Royal Agricultural Society for the best Jersey herd in the State was secured by a settler in the Tongala Irrigation District. In other dairy cattle sections, 3 championships, 4 reserve championships, 26 firsts, 23 seconds, and 25 third prizes were awarded to stock grazed on irrigated pastures, whilst 4 firsts, 1 second, and 1 third prizes for beef cattle were also secured by stock from Irrigation Districts. In the swine section, 2 championships, 2 reserve championships, 10 firsts, 11 seconds, and 2 third prizes were obtained, and sheep from irrigated lands secured 1 championship, 2 reserve championships, 8 firsts, 11 seconds, and 8 third prizes. In the grain section also, settlers in Irrigation Districts were successful in securing 9 firsts, 10 seconds, and 9 third prizes. In the Dairy Produce Division, first, second, and third prizes for a 56-lb. box of butter were awarded to factories which are located in Irrigation Districts, whilst first prize for a box of print butter was also secured by a factory which draws its supplies from irrigated farms. As illustrating the general superiority of the exhibits displayed at the Show by settlers in irrigated areas it may be mentioned that the State Agricultural Championship, which is awarded by the Royal Agricultural Society to the electoral district of Victoria which scores the highest aggregate number of points in certain specified divisions, was this year secured by the Rodney District, which embraces the irrigation centres of Tatura, Kyabram and Tongala.

As indicating the value of irrigation in increasing the productivity of the State it may be pointed out that the Werribee Irrigation District, comprising some 10,000 acres, which, prior to the advent of irrigation, carried only a few sheep and was populated by eleven families now supports some 200 families and carries 4,100 head of dairy cows, 476 horses, 600 sheep, and other farming stock, as well as 83,000 poultry. Despite the fall in land values generally throughout the State, prices for irrigated holdings at Werribee have been well maintained. A farm of 35 acres which was taken up as bare land in 1922 at £30 per acre was recently sold for £70 per acre, whilst rentals up to £7 per acre per annum are being obtained for irrigated lands used for market-gardening purposes. The latter form of cultivation has extended rapidly during recent years. In 1928-29 only 475 acres were devoted to the production of vegetables, whilst in 1932-33 the area had increased to 1,500 acres.

Progress under irrigation in the Maffra-Sale Irrigation Districts continues to be well maintained and particular attention is being devoted to the growth of pastures. In a total area of 10,407 acres of pastures irrigated, 7,664 acres comprised sown lands, representing an increase of 2,000 acres over the area irrigated for the previous year. Very satisfactory results are being obtained from sugar beet growing under irrigation on lands which, without water, were considered to be unsuitable for beet culture. This has resulted in a large area in close proximity to the factory being devoted to the cultivation of beet, and, in spite of a very dry autumn, record results for the factory were obtained. The total area of sugar beet irrigated from the Commission's works was 1,320 acres.

ADMINISTRATION.

EXTENSIONS AND EXCISIONS.

Following an extension of the Narioka Main Channel—part of the East Goulburn Channel System—the North Shepparton Irrigation District was further extended to include an area of about 3,200 acres, formerly comprising portion of the Shire of Numurkah Waterworks Trust District.

The South Shepparton Irrigation District was extended to include some 220 acres which had not previously formed part of a Commission District.

In response to a petition by the owners of lands situated between the Macorna Channel and the Box Creek, an area of 600 acres, commanded by the Torrumbarry Weir System of works but not previously in any constituted district, was added to the Leitchville Irrigation District.

Minor adjustments were made in the boundaries of the Red Cliffs and Sale Irrigation Districts.

An area of 2,000 acres was excised from the Walpeup Central Waterworks District and added to the Walpeup West Waterworks District, as it was found more suitable to supply these lands in the latter District. An area of 300 acres, within the Shire of Kara Kara Waterworks Trust District and now supplied from the channels of the Wimmera United Waterworks District, was added to the latter District.

The boundaries of the Carwarp Waterworks District were adjusted to accord with recent Crown surveys, and about 70 square miles of Crown lands, which have not been made available for settlement, were excised from that District.

The areas of the Shire of Numurkah and Shire of Kara Kara Waterworks Trust Districts were diminished in accordance with extensions of Commission Districts referred to above.

NEW AND PROPOSED DISTRICTS.

The reticulation works for the supply of the undermentioned four towns in the Bellarine Peninsula having been completed, the Bellarine Peninsula Waterworks District was constituted, and the Queenscliff and Point Lonsdale Urban District and the Barwon Heads and Ocean Grove Urban District were proclaimed.

The Township of Newstead is now being reticulated and a Waterworks District, embracing the area to be supplied, has been constituted, to be known as Newstead Waterworks 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 £196,500 in the financial year 1933-34. 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 404 as against 500 on 1st January, 1929.

During the year Mr. H. C. Valentine, District Engineer and Secretary, was transferred from Loddon Centre to Head Office as Assistant Chief Valuer. The vacancy thus caused is being filled for the time being by the transfer of Mr. G. R. Short from Dingee. Mr. H. H. C. Williams, of the engineering staff at Eppalock Reservoir, was transferred to Shepparton to take charge of the comprehensive drainage scheme under the supervision of Mr. H. B. Lincoln, District Engineer. Mr. C. P. Hay, a member of the Head Office Staff, was appointed to the position of District Secretary and Collector for the Bellarine Peninsula District, with head-quarters at Queenscliff.

The Commission records with deep regret the death of Mr. L. B. Scharp, a valued and respected Officer, who was in its service for many years. The death of Mr. T. H. Priest, Water Bailiff in the Coliban District, is also deeply regretted.

The following Officers retired during the year :—Miss L. B. Wilson, Messrs. C. P. F. Wright, J. Roy, H. L. Leppien, W. Rhodes, W. Reid, W. J. Marshall, F. T. Holt, A. Turner, E. Callaghan.

FIRE INSURANCE.

The Commission has continued its policy of carrying the fire risk on its own buildings. The premiums thus saved now amount to £11,070.

RECEIPTS, DISBURSEMENTS, AND ESTIMATES.

The total collections amounted to £493,437, which is some £41,635 less than the receipts for 1931-32. There was, however, a reduction of £18,180 in the Vote expenditure for 1932-33 as against the disbursements of the previous year. In addition to the above receipts a sum of £85,881 was received in interest from Waterworks Trusts and other local water supply Authorities. The collections for 1932-33 amounted to 85 per cent. of the year's charges, and the accounts outstanding at 30th June, inclusive of current water sales, was £656,198. Of the rates and charges owing no less than 55 per cent. is due by Crown lessees whose financial position does not justify any expectation of an early reduction of this indebtedness. These arrears have been incurred largely on Mallee lands which, without the water supply, could not have been brought under cultivation. With regard to the arrears generally, the low prices still ruling for primary products make it difficult for many settlers to meet their obligations.

The expenditure from the Annual Votes amounted to £201,910 as against £265,977 in 1929-30. As already pointed out the Water Supply Services must be maintained to a uniform standard of efficiency, and as in these circumstances economies are difficult of achievement it will be seen that the reduction in the annual votes shown above is therefore very considerable. The Loan expenditure for the year was £476,452 as against £325,212 for the previous year, while a sum of £164,777 was expended from Unemployment Relief Funds. Full particulars in regard to this and the Loan expenditure are set out in another portion of this Report.

The collections in the Irrigation Districts amounted to £238,005 as against £268,818 received in 1931-32. In the districts engaged in the Dried Fruits industry the returns were again satisfactory, but in other irrigation districts devoted to dairying, sheep-raising, and cereals, the Commission experienced difficulty in obtaining payment of a sum equivalent to the year's charges. After debiting the districts with working expenses and interest chargeable, the deficit for the year was £71,171 as against £30,593 the previous year. The financial position of each district is set out in detail in another portion of this Report.

In the Coliban District the collections amounted to £45,501, which is the largest amount yet received from this district in any year. The loss on this district, however, for the past year amounted to no less than £31,730. 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 revenue returns from the Waterworks Districts other than Coliban were £189,371 as against £190,830 received in 1931-32. These districts include large areas of lands occupied by Crown Lessees who, in many cases, are unable to meet their indebtedness for water supply, a position which is largely brought about by the present low prices of wheat and other primary products. After debiting the districts with working expenses and interest charges the deficit for the year was £40,822 as against £48,482 in 1931-32.

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

In the five Flood Protection Districts controlled by the Commission under the provisions of the Water Act, the receipts were £5,546 as against £6,706 in the previous year. After providing for Interest, Maintenance, and Management the loss for the year amounted to £1,777 as against the loss of £1,228 for 1931-32.

The disbursements for the next financial year are estimated at £196,500 as against an estimate of £202,000 for 1932-33. On the other hand the receipts are estimated at £525,000, which is £31,563 in advance of the cash received in 1932-33.

The Loan Liability of the State for Works of Water Supply at the close of the year was £24,913,258. Of this total £1,261,932 is for Free Headworks declared free by Parliament some 28 years ago; £1,281,644 was written off by Parliament some 34 years ago; £147,046 was advanced to some early-formed Local Authorities and also written off by Parliament; £2,424,840 is represented by River Murray Works; and £6,272,734 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 this Report. The balance, £13,525,062, is the sum in respect of which those benefited by the various works are this year liable for payment of interest.

The present interest charges on Loans amount to £1,070,308, and to this is to be added a sum of £131,023 on account of exchange on London giving a total of £1,201,331. Of this amount £129,749 is not chargeable to any District, being debitable against Free Headworks and Amounts Written Off, and £116,928 is debitable against River Murray Works, while £302,473 is not at present debitable, being interest on cost of Uncompleted or Unallotted Works which are not yet revenue-producing, leaving £652,181 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 £19,646 for non-revenue producing works and services not chargeable to any district) was £376,908, 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	693,400	
To which certain Amounts are debited for Pensions by Treasury	8,152	
Exchange debited by Treasury on Interest commitments in London	131,023	
Making a total of		832,575
Included in this is interest and exchange on—		
CAPITAL WRITTEN OFF 34 years ago (1,281,644)	246,677	
FREE HEADWORKS declared 28 years ago (1,408,978)		
RIVER MURRAY AGREEMENT WORKS (2,424,840)		
Totalling		
LOSS ON COLIBAN District where Rate is limited by Water Act in lieu of general Writing Off	31,730	
GENERAL SERVICES rendered by Water Commission chargeable to whole State (see page 31 of Report)	19,646	
		298,053
Deducting the above there remains to be accounted for a further sum of		534,522
At present there are works under construction from which it is impracticable to obtain a full Revenue Return until completed or until districts connected with them have been settled so that Revenue could be collected. These comprise amongst others—Eildon and Waranga Reservoirs; Maffra and Sale Irrigation Districts; new Goulburn Districts; Kooweerup and Cardinia Flood Protection Districts; and Bellarine, Millewa, and other Domestic and Stock Schemes. The Interest and Exchange on these would amount to		302,473
Leaving still to be accounted for a sum of		232,049
The Interest chargeable to Districts controlled by the Commission is fixed by the Water Act at 4 per cent. on nearly all capital, which until recently was sufficient. The percentage now charged the Commission by the Treasury inclusive of exchange is £4 16s. 5d., and this represents approximately a sum of		106,929
Leaving after excluding Interest and Exchange on Free Headworks, Amounts Written Off, River Murray Works, and other Items mentioned		125,120

The Commission again points out that much of the interest charged cannot be debited to water users. This applies to the amount of £1,281,644, representing Capital Written Off 34 years ago; to the expenditure of £1,408,978 on Free Headworks, which were declared free some 28 years ago; and to the expenditure of £2,424,840 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.

Another consideration which should be taken into account when dealing with the financial position of Country Water Supply is the fact that many large and costly works have been carried out so as to provide for future development. This applies particularly to the Glenmaggie Reservoir at Maffra as well as to a number of other storage and main supply works, and until the older districts have been extended and new ones formed so as to utilize the surplus water it is not practicable to allocate these reserve liabilities.

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.

The Commission desires again to emphasize the heavy expenditure on exchange for remitting to London interest on moneys borrowed for water supply purposes. Although the amount (£131,023) 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 £525,000, while the payments of interest by Waterworks Trusts and local bodies are estimated at £84,000. The Commission's Vote expenditure for the year 1933-34 is estimated at £196,500, as against £265,977 expended in 1929-30. It will thus be seen that considerable 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, 1933.

Works.	Receipts.	DISBURSEMENTS, exclusive of Interest, Redemption, and Depreciation Charges.			Excess.	
		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.
	£	£	£	£	£	£
Coliban	45,501	11,813	...	11,813	33,688	...
Other State Works—						
Broken River ... ..	...	117	...	117	...	117
Goulburn	114	3,846	...	3,846	...	3,732
Kow Swamp	355	561	...	561	...	206
Lake Lonsdale	719	667	...	667	52	...
Loddon River ... ..	...	96	...	96	...	96
North-West Lakes	246	192	...	192	54	...
Irrigation Districts	238,005	103,421	...	103,421	134,584	...
Waterworks Districts	123,457	43,807	...	43,807	79,650	...
Urban Districts and Divisions	65,914	14,222	...	14,222	51,692	...
Flood Protection Districts... ..	5,546	852	...	852	4,694	...
Other Districts not yet classified } Licences, Diversions, Miscellaneous }	13,580	6,821	...	6,821	6,759	...
	493,437	186,415	...	186,415	311,173	4,151
Not Revenue Producing—						
River Gauging, Surveys and Re- ports, New Projects ... ..	...	3,013	...	3,013	...	3,013
Waterworks Trusts ... ..	...	1,726	...	1,726	...	1,726
Boring for Water, Road } Cost of Clearing, Mallee and } Admin- Land Settlement } istration	...	5,097	...	5,097	...	5,097
Loan Works ... ..	...	5,659	...	5,659	...	5,659
Totals	493,437	201,910	...	201,910	311,173	19,646
Amount available to meet Depreciation					£500	
Amount available to meet Interest, as per page 38 of Report					£291,027	

COLIBAN SYSTEM.

STATEMENT of Moneys received and disbursed during the year ended 30th June, 1933; and of Interest charged at the rate of 4 per cent. on Capital Debts (including £35,308 at 5 per cent.).

District.	Capital Debit at 30th June, 1933.	Receipts.	Disbursements and Interest Charged.			Excess.	
			Disbursements.	Interest.	Total.	Receipts over Disbursements and Interest.	Disbursements and Interest over Receipts.
	£	£	£	£	£	£	£
Coliban	1,618,143	42,976	10,327	64,807	75,134	...	32,158
Axe Creek	1,750	449	362	70	432	17	...
Harcourt	11,040	1,926	1,074	442	1,516	410	...
Marong	2,100	150	65	84	149	1	...
Totals	1,633,033	45,501	11,828	65,403	77,231	428	32,158

FLOOD PROTECTION DISTRICTS.

STATEMENT of Moneys received and disbursed from 1st July, 1920, to 30th June, 1933; and of Interest charged at the rate of 4 per cent. on Capital Debts (including £508 at 5 per cent.); and also of Depreciation and Redemption charged as at 30th June, 1933.

RECEIPTS.

District.	1st July, 1920, to 30th June, 1932.	1932-33.			Grand Total at 30th June, 1933.
		Charge.	Interest and Miscellaneous.	Total.	
	£	£	£	£	£
1. Cardinia	17,033	1,317	49	1,366	18,399
2. Echuca	1,440	63	1	64	1,504
3. Kanyapella	1,758	176	29	205	1,963
4. Loch Garry	6,226	716	47	762	6,988
5. Lower Kooweerup	39,517	3,015	134	3,149	42,666
Totals	65,974	5,287	260	5,546	71,520

DISBURSEMENTS, AND INTEREST, DEPRECIATION, AND REDEMPTION CHARGED.

District.	DISBURSEMENTS.					INTEREST CHARGED.			(A) DEPRE- CIATION. (B) RE- DEMP- TION.	Grand Total at 30th June, 1933.
	1st July, 1920, to 30th June, 1932.	1932-33.			Total at 30th June, 1933.	1st July, 1920, to 30th June, 1932.	1st July, 1932, to 30th June, 1933.	Total at 30th June, 1933.		
		Repairs and Main- tenance.	Manage- ment.	Total.						
	£	£	£	£	£	£	£	£	£	£
1. Cardinia	4,268	51	157	208	4,476	16,528	1,800	18,328	..	22,804
2. Echuca	913	7	27	34	947	526	47	573	..	1,520
3. Kanyapella	743	106	32	138	881	1,000	162	1,162	..	2,042
4. Loch Garry	1,279	153	59	212	1,491	3,370	462	3,832	(B) 1,000	6,323
5. Lower Kooweerup	7,252	64	196	260	7,512	36,968	4,000	40,968	..	48,480
Totals	14,455	381	471	852	15,307	58,392	6,471	64,863	(B) 1,000	81,170

IRRIGATION AND WATER SUPPLY DISTRICTS.

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, 1933; and of Interest charged at the rate of 4 per cent. on Capital Debts (including £164,589 at 5 per cent.); and also of Depreciation and Redemption charged, as at 30th June, 1933. (Free Headworks excluded.)

RECEIPTS.

District.	1st May, 1906, to 30th June, 1932.	1932-33.					Grand Total at 30th June, 1933.
		Rates.	Compulsory Irrigation Charge.	Water Sales.	Interest and Miscel- laneous.	Total.	
	£	£	£	£	£	£	£
1. Bacchus Marsh	101,071	764	3,564	789	23	5,140	106,211
2. Boort	75,494	1,723	..	2,475	33	4,231	79,725
3. Calivil	9,904	615	..	1,500	66	2,181	12,085
4. Campaspe	19,706	780	..	73	6	859	20,565
5. Cohuna	201,941	1,738	5,999	956	252	8,945	210,886
6. Deakin	109,820	2,791	..	367	50	3,208	113,028
7. Dingee	31,760	157	1,047	77	121	1,402	33,162
8. Echuca North	18,576	157	1,171	98	67	1,493	20,069
9. Fish Point	4,170	81	466	99	63	709	4,879
10. Gannawarra	165,125	1,513	5,102	472	287	7,374	172,499
11. Katandra	4,922	167	..	424	8	599	5,521
12. Kerang	133,660	2,029	..	2,920	108	5,057	138,717
13. Koondrook	136,132	1,330	3,169	222	429	5,150	141,282
14. Leitchville	13,983	585	1,277	557	56	2,475	16,458
15. Maffra-Sale	37,685	2,007	7,941	963	488	11,399	49,084
16. Merbein	370,485	1,298	25,377	197	1,188	28,060	398,545
17. Mystic Park	10,073	109	376	91	24	600	10,673
18. North Shepparton	11,518	1,791	..	1,127	58	2,976	14,494
19. Nyah	107,466	431	10,261	37	1,924	12,653	120,119
20. Red Cliffs	275,077	1,161	36,478	291	961	38,891	313,968
21. Rochester	278,118	2,775	12,642	2,784	930	19,131	297,249
22. Rodney	559,229	6,258	16,384	2,667	593	25,902	585,131
23. Shepparton	131,389	1,908	5,066	192	411	7,577	138,966
24. South Shepparton	15,389	595	1,319	110	74	2,098	17,487
25. Stanhope	61,605	542	2,268	332	241	3,383	64,988
26. Swan Hill	147,174	1,115	5,685	1,587	668	9,055	156,229
27. Third Lake	6,511	183	534	42	89	848	7,359
28. Tongala	125,841	1,252	4,346	381	390	6,369	132,210
29. Tragowel Plains	256,218	1,682	8,281	533	532	11,028	267,246
30. Tresco	22,653	..	634	42	118	794	23,447
31. Werribee	89,631	924	4,824	1,892	778	8,418	98,049
Totals	3,532,326	38,461	164,211	24,297	11,036	238,005	3,770,331

DISBURSEMENTS, AND INTEREST, DEPRECIATION, AND REDEMPTION CHARGED.

District.	1st May, 1906, to 30th June, 1932.	DISBURSEMENTS.					INTEREST CHARGED.			(A) DEPRECIATION. (B) REDEMPTION.	Grand Total at 30th June, 1933.
		1932-33.				Total at 30th June, 1933.	1st May, 1906 to 30th June, 1932.	1st July, 1932, to 30th June, 1933.	Total at 30th June, 1933.		
		Repairs and Maintenance.	Distribution of Water.	Manage- ment.	Total.						
	£	£	£	£	£	£	£	£	£	£	£
1. Bacchus Marsh ..	23,172	37	793	181	1,011	24,183	86,634	5,939	92,573	..	116,756
2. Boort ..	37,148	462	723	332	1,517	38,665	35,246	3,921	39,167	(B) 1,400	79,232
3. Calivil ..	3,863	601	373	72	1,046	4,909	12,384	4,393	16,777	..	21,686
4. Campaspe ..	11,656	52	310	53	415	12,071	11,054	495	11,549	..	23,620
5. Cohuna ..	116,916	691	1,378	336	2,405	119,321	86,371	6,267	92,638	(A) 9,010	220,969
6. Deakin ..	41,902	299	431	156	886	42,788	72,281	3,308	75,589	..	118,377
7. Dingee ..	16,256	393	416	65	874	17,130	20,747	1,225	21,972	..	39,102
8. Echuca North ..	7,738	88	495	77	660	8,398	12,619	1,634	14,253	..	22,651
9. Fish Point ..	3,404	191	319	58	568	3,972	3,310	619	3,929	..	7,901
10. Gannawarra ..	87,880	597	1,192	292	2,081	89,961	75,834	5,655	81,489	(A) 5,694	177,144
11. Katandra ..	1,992	93	495	59	647	2,639	12,013	4,195	16,208	..	18,847
12. Kerang ..	71,903	689	1,355	455	2,499	74,402	58,807	4,477	63,284	(A) 450	140,836
13. Koondrook ..	79,187	849	963	177	1,989	81,176	94,157	7,259	101,416	(B) 2,700	187,093
14. Leitchville ..	5,945	125	251	62	438	6,383	8,520	1,623	10,143	(A) 4,501	16,526
15. Maffra—Sale ..	16,200	1,309	1,382	499	3,190	19,390	23,720	7,950	31,670	..	51,060
16. Merbein ..	270,354	2,337	14,487	385	17,209	287,563	113,475	8,170	121,645	(A) 16,183	425,391
17. Mystic Park ..	7,481	257	99	83	439	7,920	5,228	689	5,917	..	13,837
18. North Shepparton ..	2,354	260	1,046	77	1,383	3,737	20,522	7,505	28,027	..	31,764
19. Nyah ..	88,004	552	4,535	499	5,586	93,590	52,198	3,990	56,188	(A) 3,802	153,580
20. Red Cliffs ..	154,787	3,157	21,628	575	25,360	180,147	108,008	18,300	126,308	(A) 15,000	321,455
21. Rochester ..	119,902	1,644	4,473	725	6,842	126,744	197,987	15,919	213,906	..	340,650
22. Rodney ..	227,542	1,537	6,266	862	8,665	236,207	375,087	24,969	400,056	..	636,263
23. Shepparton ..	47,324	201	1,541	648	2,390	49,714	116,386	9,740	126,126	..	175,840
24. South Shepparton ..	3,233	76	320	74	470	3,703	12,653	2,732	15,385	..	19,088
25. Stanhope ..	27,590	555	1,524	147	2,226	29,816	42,708	5,009	47,717	..	77,533
26. Swan Hill ..	80,135	1,421	1,145	542	3,108	83,243	71,112	6,640	77,752	(A) 4,768	165,763
27. Third Lake ..	1,778	82	187	62	331	2,109	6,700	997	7,697	..	9,806
28. Tongala ..	53,644	622	1,363	300	2,285	55,929	112,141	8,351	120,492	..	176,421
29. Tragowel Plains ..	101,287	800	2,495	405	3,700	104,987	177,165	13,971	191,136	..	296,123
30. Tresco ..	30,379	444	1,647	149	2,240	32,619	30,613	3,646	34,259	..	66,878
31. Werribee ..	16,690	86	613	262	961	17,651	76,958	9,082	86,040	..	103,691
Totals ..	1,757,646	20,507	74,245	8,669	103,421	1,861,067	2,132,638	198,670	2,331,308	63,508	4,255,883

WATERWORKS DISTRICTS.

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, 1933; and of Interest charged at the rate of 4 per cent. on Capital Debts (including £207,000 at 5 per cent.); and also of Depreciation and Redemption charged, as at 30th June, 1933. (Free Headworks excluded.)

RECEIPTS.

District.	1st May, 1906, to 30th June, 1932.	1932-33.				Grand Total at 30th June, 1933.
		Rates.	Water Sales.	Interest and Miscel- laneous.	Total.	
	£	£	£	£	£	£
1. Bellarine Peninsula .. ..	..	..	3,151	48	3,199	3,199
2. Birchip .. ..	..	3,530	58	247	3,835	506,495
3. Sea Lake .. ..	..	6,938	102	495	7,535	
4. Tyrell .. ..	..	7,221	142	960	8,323	
5. Wycheproof .. ..	..	7,128	21	462	7,611	
6. Carwarp	11,838	512	..	135	647	12,485
7. Carwarp Central	1,102	12	..	39	51	1,153
8. Dering	2,829	426	..	49	475	3,304
9. Eureka	1,470	69	..	34	103	1,573
10. Hindmarsh	3,394	1,680	..	124	1,804	5,198
11. Karkaroc	197,870	12,593	..	748	13,341	211,211
12. Kerang North-West Lakes ..	3,063	137	1	4	142	3,205
13. Kia	1,667	406	..	2	408	2,075
14. Long Lake	160,353	7,664	83	722	8,469	168,822
15. Millewa	5,062	3,251	90	2,785	6,126	11,188
16. Millewa Central	3,246	2,460	..	1,245	3,705	6,951
17. Mornington Peninsula	46,032	3,000	..	48	3,048	49,080
18. Narre Warren	1,763	53	55	12	120	1,883
19. Tyntynder	91,524	3,113	..	497	3,610	95,134
20. Upper Western Wimmera	73,427	4,709	..	177	4,886	78,313
21. Upper Wimmera United	121,285	7,589	..	365	7,954	129,239
22. Walpeup Central	898	481	..	12	493	1,391
23. Walpeup West	26,664	1,311	25	130	1,466	28,130
24. Werribee	8,700	620	5	19	644	9,344
25. Western Wimmera	258,345	13,530	1,414	381	15,325	273,670
26. Wimmera United	288,241	17,717	1,092	872	19,681	307,922
27. Yelta	4,786	421	..	35	456	5,242
Totals	1,792,750	106,571	6,239	10,647	123,457	1,916,207

DISBURSEMENTS, AND INTEREST, DEPRECIATION, AND REDEMPTION CHARGED.

District.	DISBURSEMENTS.					INTEREST CHARGED.				(A) DEPRECIATION. (B) REDEMPTION.	Grand Total at 30th June, 1933.
	1st May, 1906, to 30th June, 1932.	1932-33.				Total at 30th June, 1933.	1st May, 1906, to 30th June, 1932.	1st July, 1932, to 30th June, 1933.	Total at 30th June, 1933.		
		Repairs and Maintenance.	Distribution of Water.	Management.	Total.						
	£	£	£	£	£	£	£	£	£	£	£
1. Bellarine Peninsula	..	20	13	20	53	..	3,146	3,146	..	..	3,199
2. Birchip; 3. Sea Lake; 4. Tyrell; 5. Wycheproof	254,625	4,933	4,918	846	10,697	265,322	316,691	28,811	345,502	..	610,824
6. Carwarp	22,745	419	584	48	1,051	23,796	13,227	1,620	14,847	(A) 586	39,229
7. Carwarp Central ..	1,041	23	184	23	230	1,271	792	94	886	(A) 15	2,172
8. Dering ..	1,667	179	85	25	289	1,956	2,774	468	3,242	..	5,198
9. Eureka ..	2,475	57	122	15	194	2,669	1,085	161	1,246	..	3,915
10. Hindmarsh ..	1,382	182	56	29	267	1,649	2,946	1,096	4,042	(A) 420	6,111
11. Karkaroc ..	81,583	1,254	992	300	2,546	84,129	136,299	10,997	147,296	..	231,425
12. Kerang N.W. Lakes ..	1,895	59	49	30	138	2,033	1,480	83	1,563	..	3,596
13. Kia ..	1,714	474	87	22	583	2,297	948	282	1,230	..	3,527
14. Long Lake ..	97,870	985	1,585	265	2,835	100,705	74,472	6,214	80,686	(A) 8,305	189,696
15. Millewa ..	13,546	455	8,062	291	8,808	22,354	5,350	5,380	10,730	..	33,084
16. Millewa Central ..	4,301	15	2,054	124	2,193	6,494	4,000	4,000	8,000	..	14,494
17. Mornington Peninsula ..	6,371	179	135	52	366	6,737	37,270	2,720	39,990	..	46,727
18. Narre Warren ..	238	9	8	8	25	263	1,955	412	2,367	..	2,630
19. Tyntynder ..	68,276	1,339	894	126	2,359	65,635	77,780	8,208	85,988	..	151,623
20. Upper Western Wimmera ..	28,641	373	381	118	872	29,513	38,132	4,072	42,204	(A) 606	73,823
21. Upper Wimmera United ..	38,530	510	768	195	1,473	40,003	79,066	6,797	85,863	(B) 1,500	128,256
22. Walpeup Central ..	548	14	475	37	526	1,074	1,084	1,058	2,142	(B) 2,390	8,216
23. Walpeup West ..	20,152	712	..	107	819	20,971	13,643	1,453	15,096	(A) 1,200	37,267
24. Werribee ..	2,678	..	97	38	135	2,813	7,769	598	8,367	..	11,180
25. Western Wimmera ..	115,239	1,483	1,503	471	3,457	118,696	126,256	12,615	138,871	(A) 2,422	265,389
26. Wimmera United ..	95,168	1,190	1,791	451	3,432	98,600	177,017	16,138	193,155	(B) 5,400	297,065
27. Yelta ..	4,125	239	180	40	459	4,584	2,538	248	2,786	(B) 5,310	7,370
Totals ..	859,810	15,103	25,023	3,681	43,807	903,617	1,122,574	116,671	1,239,245	28,154	2,171,016

DISTRICTS HELD IN TRUST BY THE COMMISSION.

STATEMENT OF RECEIPTS AND DISBURSEMENTS FOR THE YEAR ENDED 31ST DECEMBER, 1932.

RECEIPTS.

Name of Trust.	Bank Balance, at 31st December, 1931.	1932.				Grand Total for Year 1932.
		Rates.	Water Sales.	Interest and Miscellaneous.	Total.	
	£	£	£	£	£	£
Avoca	Cr. 10	621	21	32	674	684
Avoca (Quambatook, Urban) ..	Cr. 57	590	77	17	684	741
Carrum	Dr. 544	2,073	..	218	2,291	1,747
Loddon United	Dr. 794	2,509	10	71	2,590	1,796
Loddon United (Mitiamo, Urban) ..	Dr. 103	210	241	4	455	352
Totals	Cr. 67 Dr. 1,441	6,003	349	342	6,694	5,320

DISBURSEMENTS.

Name of Trust.	1932.					Grand Total for Year 1932.	Bank Balance carried forward 1st January, 1933.
	Repairs and Maintenance.	Water Distribution.	Manage- ment.	Total.	Interest.	(A) Depreciation. (B) Redemption.	
	£	£	£	£	£	£	£
Avoca	176	..	107	283	207	B 170	Cr. 24
Avoca (Quambatook, Urban) ..	203	119	43	365	191	A 60 B 60	Cr. 65
Carrum	845	..	172	1,017	1,122	B 274	Dr. 666
Loddon United	831	380	319	1,530	489	B 342	Dr. 565
Loddon United (Mitiamo, Urban) ..	163	..	20	183	212	A 28 B 20	Dr. 91
Totals	2,218	499	661	3,378	2,221	A 88 B 866	Cr. 89 Dr. 1,322

URBAN DISTRICTS

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, £17,403 at 5 per cent.); and also of Depreciation and Redemption charged, RECEIPTS.

District or Division.	1st May, 1906, to 30th June, 1932.	1932-33.				Grand Total at 30th June, 1933.
		Rates.	Water Sales.	Interest and Miscellaneous.	Total.	
	£	£	£	£	£	£
1. Antwerp	174	72	..	4	76	250
2. Bacchus Marsh	30,263	1,218	427	9	1,654	31,917
3. Barwon Heads and Ocean Grove .. .. .	..	..	..	94	94	94
4. Berriwillock	3,699	284	14	18	316	4,015
5. Berwick	4,780	630	95	37	762	5,542
6. Beulah	10,095	425	89	34	548	10,643
7. Birchip	21,144	644	314	90	1,048	22,192
8. Bittern	1,139	98	37	1	136	1,275
9. Brim	2,214	295	7	23	325	2,539
10. Bunyip	471	312	3	15	330	801
11. Carrum	59,379	5,783	585	507	6,875	66,254
12. Carwarp	177	56	..	1	57	234
13. Chillingollah	884	70	39	5	114	998
14. Chinkapook	703	190	2	5	197	900
15. Cohuna	13,340	867	110	64	1,041	14,381
16. Corop	665	23	..	..	23	688
17. Cranbourne	6,043	333	68	11	412	6,455
18. Crib Point	806	495	60	12	567	1,373
19. Culgoa	3,889	218	119	16	353	4,242
20. Dandenong	48,516	4,114	709	365	5,188	53,704
21. Dimboola	37,690	1,383	579	160	2,122	39,812
22. Dingee	627	78	..	1	79	706
23. Doon	78	15	19	1	35	113
24. Frankston	36,913	3,900	810	125	4,835	41,748
25. Garfield	362	296	..	5	301	663
26. Hastings	1,686	335	11	11	357	2,043
27. Heyfield	484	505	..	7	512	996
28. Hicksborough	180	83	..	2	85	265
29. Hopetoun	12,644	688	130	65	883	13,527
30. Jeparit	14,385	787	213	39	1,039	15,424
31. Jung Jung	1,989	145	30	8	183	2,172
32. Koondrook	7,551	452	40	13	505	8,056
33. Lake Boga	6,519	321	18	30	369	6,888
34. Lalbert	2,489	291	109	9	409	2,898
35. Lascelles	2,399	206	15	31	252	2,651
36. Leitchville	2,663	418	3	28	449	3,112
37. Lockington	2,027	226	1	16	243	2,270
38. Manangatang	4,039	466	6	18	490	4,529
39. Marnoo	2,180	351	60	6	417	2,597
40. Merbein	13,215	1,210	72	104	1,386	14,601
41. Meringur	503	195	2	4	201	704
42. Minyip	14,713	948	87	81	1,116	15,829
43. Mornington	26,492	2,587	261	268	3,116	29,608
44. Mount Martha	2,517	563	37	18	618	3,135
45. Murrabit	164	57	..	1	58	222
46. Nandaly	865	87	..	3	90	955
47. Natimuk	11,140	236	196	61	493	11,633
48. North Wonthaggi	2,079	360	..	7	367	2,446
49. Nullawil	953	287	10	22	319	1,272
50. Nyah	1,251	100	10	1	111	1,362
51. Nyah West	5,496	731	60	19	810	6,306
52. Ouyen	21,271	1,519	576	123	2,218	23,489
53. Pakenham	4,586	537	325	12	874	5,460
54. Patchewollock	591	140	8	7	155	746
55. Piangil	3,711	328	176	20	524	4,235
56. Pyramid Hill	3,524	525	30	51	606	4,130
57. Queenscliff and Point Lonsdale .. .. .	..	1,301	140	259	1,700	1,700
58. Rainbow	18,832	884	213	85	1,182	20,014
59. Red Cliffs	11,117	1,522	113	82	1,717	12,834
60. Rupanyup	12,691	939	42	89	1,070	13,761
61. Sea Lake	15,493	753	236	72	1,061	16,554
62. Somerville	2,356	255	72	4	331	2,687
63. South Frankston	11,769	1,324	155	26	1,505	13,274
64. Speed	665	137	..	13	150	815
65. Spring Vale	14,647	2,198	201	90	2,489	17,136
66. Stanhope	1,301	216	..	10	226	1,527
67. Tempy	606	104	..	10	114	720
68. Ultima	7,311	486	5	51	542	7,853
69. Waitchie	570	49	..	2	51	621
70. Watchem	5,455	342	3	43	388	5,843
71. Werrimull	1,406	396	47	20	463	1,869
72. Wonthaggi	83,337	2,337	1,819	26	4,182	87,519
73. Woomelang	13,392	296	227	38	561	13,953
74. Woorinen	744	116	..	3	119	863
75. Wycheproof	15,180	930	154	88	1,172	16,352
76. Yaapeet	284	133	..	15	148	432
Totals	675,513	52,201	9,999	3,714	65,914	741,427

AND DIVISIONS

1933; and of Interest charged, at the rate of 4 per cent. on Capital Debits (including as at 30th June, 1933. (Free Headworks excluded).

DISBURSEMENTS, AND INTEREST, DEPRECIATION, AND REDEMPTION CHARGED

District or Division.	1st May, 1906, to 30th June, 1932.	DISBURSEMENTS.				Total at 30th June, 1933.	INTEREST CHARGED.				(a) DEPRECIATION. (b) REDEMPTION.	Grand Total at 30th June, 1933.
		1932-33.					1st May, 1906, to 30th June, 1932.	1st July, 1932, to 30th June, 1933.	Total at 30th June, 1933.			
		Repairs and Maintenance.	Distribution of Water.	Management.	Total.							
	£	£	£	£	£	£	£	£	£	£	£	£
1. Antwerp ..	67	1	12	8	21	88	82	39	121	(a)	12	221
2. Bacchus Marsh ..	7,112	13	144	104	261	7,373	22,651	1,515	24,166	(a)	686	32,225
3. Barwon Heads and Ocean Grove ..	..	14	20	30	64	64	..	50	50	..	..	114
4. Berriwillock ..	1,831	41	40	31	112	1,943	1,859	221	2,080	(a)	67	4,090
5. Berwick ..	595	34	29	28	91	686	4,079	665	4,744	..	..	5,430
6. Beulah ..	4,383	13	171	28	212	4,595	5,324	335	5,659	(a)	80	10,334
7. Birchip ..	9,582	64	217	67	348	9,930	10,453	694	11,147	(a, b)	1,040	22,117
8. Bittern ..	142	7	6	5	18	160	1,039	150	1,189	..	..	1,349
9. Brim ..	530	25	18	21	64	594	1,363	241	1,604	(a)	168	2,366
10. Bunyip ..	60	23	19	20	62	122	411	411	822	..	..	944
11. Carrum ..	9,458	330	275	295	900	10,358	51,240	6,500	57,740	..	..	68,098
12. Carwarp ..	86	7	5	8	20	106	100	26	126	(a)	116	348
13. Chillingollah ..	404	6	24	17	47	451	847	149	996	(a)	140	1,587
14. Chinkapook ..	165	..	18	21	39	204	402	103	505	(a)	212	921
15. Cohuna ..	3,715	61	122	69	252	3,967	8,624	787	9,411	(a, b)	796	14,174
16. Corop ..	327	2	5	6	13	340	335	14	349	(a)	54	743
17. Cranbourne ..	782	18	15	46	79	861	5,784	368	6,152	..	..	7,013
18. Crib Point ..	129	33	28	19	80	209	472	440	912	(a)	174	1,295
19. Culgoa ..	1,591	29	39	31	99	1,690	2,354	269	2,623	(a)	57	4,370
20. Dandenong ..	7,805	218	181	293	692	8,497	39,955	4,650	44,605	(a)	500	53,602
21. Dimboola ..	22,495	278	197	102	577	23,072	11,969	1,298	13,267	(a)	1,620	39,189
										(b)	1,230	
22. Dingee ..	241	10	13	10	33	274	401	62	463	(a)	98	835
23. Dooen ..	49	..	18	7	25	74	84	28	112	(a)	6	192
24. Frankston ..	5,621	206	182	196	584	6,205	31,443	4,130	35,573	..	..	41,778
25. Garfield ..	62	21	17	19	57	119	288	464	752	..	..	871
26. Hastings ..	301	20	17	10	47	348	1,462	277	1,739	..	..	2,087
27. Heyfield ..	278	31	104	32	167	445	392	339	731	..	..	1,176
28. Hicksborough ..	90	13	15	14	42	132	99	50	149	(a)	30	311
29. Hopetoun ..	6,939	28	363	31	422	7,361	5,739	618	6,357	(b)	150	13,868
30. Jeparit ..	2,835	30	52	45	127	2,962	10,230	918	11,148	(b)	800	14,910
31. Jung Jung ..	1,273	25	44	11	80	1,353	798	64	862	(a)	70	2,285
32. Koondrook ..	4,018	29	222	35	286	4,304	3,374	183	3,557	(a)	315	8,176
33. Lake Boga ..	3,253	2	192	45	239	3,492	3,398	166	3,564	(a, b)	294	7,350
34. Lalbert ..	517	24	12	43	79	596	1,775	282	2,057	(a)	525	3,178
35. Lascelles ..	1,271	13	18	19	50	1,321	1,397	120	1,517	(a)	144	2,982
36. Leitchville ..	1,423	71	92	30	193	1,616	1,142	208	1,350	(a)	196	3,162
37. Lockington ..	464	12	12	25	49	513	1,468	192	1,660	(a)	315	2,488
38. Manangatang ..	1,049	7	13	38	58	1,107	2,505	439	2,944	(a)	520	4,571
39. Marnoo ..	387	11	12	26	49	436	1,371	335	1,706	(a)	441	2,583
40. Merbein ..	6,180	34	398	125	557	6,737	6,841	754	7,595	(a)	550	14,882
41. Meringur ..	146	7	18	21	46	192	296	117	413	(a)	90	695
42. Minyip ..	4,524	39	166	65	270	4,794	9,243	746	9,989	(a)	539	15,746
										(b)	424	
43. Mornington ..	4,053	140	117	107	364	4,417	22,413	3,000	25,413	..	..	29,830
44. Mount Martha ..	369	31	26	22	79	448	2,040	560	2,600	..	..	3,048
45. Murrabit ..	81	1	10	10	21	102	102	41	143	..	..	245
46. Nandaly ..	294	6	6	16	28	322	420	109	529	(a)	168	1,019
47. Natimuk ..	2,873	10	48	36	94	2,967	7,637	342	7,979	(b)	750	11,696
48. North Wonthaggi ..	680	76	50	48	174	854	1,282	286	1,568	(a)	240	2,662
49. Nullawil ..	367	12	49	15	76	443	822	168	990	(a)	30	1,463
50. Nyah ..	531	2	24	21	47	578	605	55	660	(a)	76	1,314
51. Nyah West ..	1,447	47	79	45	171	1,618	3,667	513	4,180	(a)	624	6,422
52. Ouyen ..	7,919	17	488	131	636	8,555	12,989	1,552	14,541	(a)	550	23,646
53. Pakenham ..	432	33	28	26	87	519	3,750	930	4,680	(a)	408	5,607
54. Patchewollock ..	201	6	6	15	27	228	450	128	578	(a)	184	990
55. Piangil ..	1,025	56	76	36	168	1,193	2,201	233	2,434	(a)	544	4,171
56. Pyramid Hill ..	1,424	43	126	35	204	1,628	1,868	398	2,266	(a)	360	4,254
57. Queenscliff and Point Lonsdale ..	..	14	25	50	89	89	..	1,600	1,600	..	..	1,689
58. Rainbow ..	3,484	12	80	41	133	3,617	13,519	926	14,445	(a, b)	1,760	19,822
59. Red Cliffs ..	5,068	90	450	107	647	5,715	4,756	971	5,727	(a)	560	12,002
60. Rupanyup ..	4,117	23	166	30	219	4,336	7,629	612	8,241	(a, b)	904	13,481
61. Sea Lake ..	7,658	14	194	57	265	7,923	6,481	643	7,124	(a)	1,174	16,221
62. Somerville ..	379	12	10	8	30	409	2,139	280	2,419	..	..	2,828
63. South Frankston ..	1,740	80	67	55	202	1,942	10,043	1,400	11,443	..	..	13,385
64. Speed ..	197	12	18	15	45	242	346	95	441	(a)	240	923
65. Spring Vale ..	2,080	123	102	70	295	2,375	12,330	2,220	14,550	..	..	16,925
66. Stanhope ..	328	2	26	17	45	373	880	146	1,026	(a)	224	1,623
67. Tempy ..	223	18	18	16	52	275	342	104	446	(a)	208	929
68. Ultima ..	2,614	16	44	35	95	2,709	4,614	409	5,023	(a)	200	7,932
69. Waitchie ..	327	..	12	12	24	351	538	102	640	(a)	216	1,207
70. Watchem ..	1,712	44	12	25	81	1,793	3,608	265	3,873	(a)	180	5,846
71. Werriamull ..	303	17	49	30	96	399	816	321	1,137	(a)	219	1,755
72. Wonthaggi ..	15,436	563	726	246	1,535	16,971	50,851	2,393	53,244	(a, b)	15,000	85,215
73. Woomelang ..	4,329	64	85	62	211	4,540	8,906	470	9,376	(a, b)	600	14,516
74. Woorinen ..	258	1	13	22	36	294	534	91	625	(a)	102	1,021
75. Wycheproof ..	7,681	49	304	55	408	8,089	6,805	625	7,430	(a)	772	16,291
76. Yaapect ..	102	..	18	9	27	129	270	92	362	(a)	156	647
Totals ..	191,912	3,484	7,117	3,621	14,222	206,134	448,742	51,497	500,239	..	38,908	745,281

CAPITAL EXPENDITURE.

STATEMENT of Moneys Expended from Water Supply Loans and Unemployment Relief Funds for the year ended 30th June, 1933.

Works.	Unemployment Relief Funds.	Water Supply Loans Application Acts Nos. 3988 and 4084.	Total.
	£ s. d.	£ s. d.	£ s. d.
<i>Free Headworks.</i>			
1. Kerang North-West Lakes .. .. .	..	501 0 2	501 0 2
<i>River Murray Waters Acts—Works.</i>			
2. Storages, Weirs and Locks .. .. .	..	110,184 11 5	110,184 11 5
<i>Reservoirs and Storages.</i>			
3. Eppalock Reservoir	4,466 7 8	14,796 8 3	19,262 15 11
4. Goulburn Storages— Eildon Reservoir .. .. .	..	17,910 19 1	17,910 19 1
Waranga Reservoir .. .. .	..	686 7 4	686 7 4
5. Maffra, Glenmaggie Reservoir .. .. .	..	201 19 3	201 19 3
6. Wimmera-Mallee Storages	8,170 7 1	755 12 10	8,925 19 11
<i>Waterworks Districts.</i>			
7. Bellarine Peninsula	1,044 19 1	70,287 4 2	71,332 3 3
8. Birchip, Sea Lake, Tyrrell, and Wycheproof .. .. .	..	14,893 1 10	14,893 1 10
9. Carwarp .. .. .	..	219 4 2	219 4 2
10. Coreena	725 13 9	203 2 5	928 16 2
11. Dering, Eureka, Baring, and Kia .. .. .	..	351 17 1	351 17 1
12. Hindmarsh .. .. .	..	79 5 1	79 5 1
13. Karkaroo .. .. .	..	4,095 19 11	4,095 19 11
14. Kerang North-West Lakes .. .. .	..	28 19 10	28 19 10
15. Long Lake .. .. .	..	3,328 3 1	3,328 3 1
16. Millewa	3,995 13 1	5,490 4 2	9,485 17 3
17. Mornington Peninsula	13,458 4 6	48,763 0 1	62,221 4 7
18. Tyntynder .. .. .	..	3,827 19 1	3,827 19 1
19. Walpeup .. .. .	..	2,387 13 7	2,387 13 7
20. Western Wimmera	8,976 13 6	41,948 11 2	50,925 4 8
21. Wimmera United .. .. .	..	4,957 0 0	4,957 0 0
22. Wimmera, Mallee, Main and Distributary Channels	32,627 2 7	1,259 15 9	33,886 18 4
23. Yelta	499 18 1	9 16 2	509 14 3
<i>Towns.</i>			
24. Bacchus Marsh .. .. .	..	454 6 8	454 6 8
25. Berriwillock, Birchip, and Chinkapook .. .. .	..	195 18 4	195 18 4
26. Cohuna, Dingee, Merbein, and Red Cliffs .. .. .	..	230 13 3	230 13 3
27. Coliban	6,131 16 3	10,885 1 8	17,016 17 11
28. Dimboola and Jeparit .. .. .	..	1,579 17 9	1,579 17 9
29. Heyfield and Stratford .. .. .	..	1,671 10 7	1,671 10 7
30. Lalbert, Lascelles, Nullawil, and Nyah West .. .. .	..	474 13 8	474 13 8
31. Newstead	1,992 3 7	5,616 4 5	7,608 8 0
32. Ouyen, Piangil, and Ultima .. .. .	..	45 9 3	45 9 3
33. Speed, Tempy, Werrimull, and Wycheproof .. .. .	..	228 4 10	228 4 10
34. Wonthaggi and North Wonthaggi .. .. .	..	91 14 10	91 14 10
35. Other towns .. .. .	..	32 17 0	32 17 0
<i>Irrigation and Water Supply Districts.</i>			
36. Bacchus Marsh and Werribee	22,353 16 8	7,394 0 11	29,747 17 7
37. Boort .. .. .	..	1,221 11 5	1,221 11 5
38. Calivil .. .. .	..	818 1 6	818 1 6
39. Cohuna and Gannawarra	6,000 18 5	4,437 11 6	10,438 9 11
40. Deakin and Dingee .. .. .	..	239 18 3	239 18 3
41. Katandra .. .. .	..	1,275 1 7	1,275 1 7
42. Kerang .. .. .	..	3,059 0 11	3,059 0 11
43. Koondrook .. .. .	..	2,331 15 7	2,331 15 7
44. Leitchville .. .. .	..	944 3 10	944 3 10
45. Maffra, Sale	2,650 10 6	21,179 0 10	23,829 11 4
46. Merbein	100 12 7	2,491 16 0	2,592 8 7
47. Mystic Park, Third Lake, and Tresco	260 13 0	229 8 5	490 1 5
48. North Shepparton .. .. .	..	6,056 8 8	6,056 8 8
49. Nyah	229 12 2	1,370 3 9	1,599 15 11
50. Red Cliffs	464 5 4	2,420 2 8	2,884 8 0
51. Rochester, Campaspe, and Echuca North .. .. .	..	3,104 3 5	3,104 3 5
52. Rodney	5,749 3 2	12,034 16 1	17,783 19 3
53. Shepparton	11,901 1 3	5,717 3 0	17,618 4 3
54. South Shepparton .. .. .	..	186 1 4	186 1 4
55. Stanhope	1,029 18 1	2,296 4 8	3,326 2 9
56. Swan Hill	5,142 16 8	1,367 9 4	6,510 6 0
57. Tongala	6,215 17 3	2,882 1 8	9,097 18 11
58. Tragowel Plains .. .. .	..	1,337 6 0	1,337 6 0
59. Goulburn Main Channels .. .. .	..	8,554 5 10	8,554 5 10
<i>Flood Protection and Drainage Districts.</i>			
60. Kooweerup, Cardinia, and Dandenong Creek	11,065 3 9	7,974 4 1	19,039 7 10
61. Other Districts and Works	8,590 7 6	653 11 2	9,243 18 8
<i>Miscellaneous.</i>			
62. Investigations, Storages, and Works .. .. .	..	1,757 12 10	1,757 12 10
63. Torrumbarry Districts—New Districts commanded by Torrumbarry Weir	933 8 4	4,444 11 5	5,377 19 9
Totals	164,777 3 10	476,452 4 10	641,229 8 8

STATEMENT OF EXPENDITURE DURING THE YEAR ENDED 30TH JUNE, 1933.

CONSTRUCTION OF TANKS AND FORMING ROADS IN THE MALLEE.

1. Mallee Tanks (Public Tanks), Channels, and Clearing Roads—	£ s. d.
Expenditure met by Lands Department	778 2 10
Expenditure met from Unemployment Relief Funds	295 5 0
Total	1,073 7 10

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, 1934, 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, 1934.

ESTIMATED DISBURSEMENTS.

A.

Revenue Producing Works—		
Coliban District	£8,500	
Irrigation and Water Supply Districts	96,000	
Waterworks Districts	60,000	
Drainage and Flood Protection Districts	750	
Diversions from Streams	350	
General Expenditure and Salaries (proportion) over £250 to be apportioned to above Districts	16,900	
		£182,500

B.

Non-Revenue Producing Works—		
General Services—		
River Gaugings, Surveys, New Projects, Boring for Water, Land Settlement, General Expenditure and Salaries (proportion) over £250	£6,100	
Loan Works, Services on Account defrayed from Votes	3,300	
Waterworks Trusts Administration	1,600	
		£11,000

C.

Non-Revenue Producing Works—		
Free Headworks—		
Broken River	£200	
Goulburn-Waranga	1,050	
Kow Swamp	1,000	
Lake Lonsdale and Lower Wimmera	325	
Loddon River	200	
North-West Lakes	225	
		£3,000
		£196,500

ESTIMATED RECEIPTS.

Coliban District	£44,000
Irrigation and Water Supply Districts	269,500
Waterworks Districts	183,500
Flood Protection Districts	8,000
Miscellaneous	20,000
	£525,000
Estimated amount available from Revenue Producing Works to meet Interest	£342,500
Less expenditure as per "B" and "C" above on Non-Revenue Producing Works	14,000
	£328,500
To which add Estimated Revenues from other Authorities—	
Waterworks Trusts	60,200
Local Bodies	23,800
	£84,000
Total Estimated amount available from Revenues of all Authorities to meet Interest	£412,500

STATEMENT OF LOAN LIABILITY

STATEMENT of the amount provided by the State to meet Interest and Exchange thereon on its Loan Expenditure for Works of Water Supply, both State Works of Water Supply and Works vested in Authorities other than the Commission; and of the sums paid from the revenues of the Commission, and from the moneys received from such other Authorities, to provide such Interest and Exchange for the year ended 30th June, 1933:—

Loan Liability of State for Works of Water Supply at 30th June, 1933, exclusive of Melbourne Water Supply.						Total Interest of £1,070,308 and Exchange thereon of £131,022 debitable to—		Amount received from Revenues of all Authorities to meet Interest and Exchange.
Interest and Exchange thereon payable by State on Net Advances.		(A.) Written Off. works. (B.) Free Head-works. (C.) Uncompleted or Unallotted Works.		Commission and Other Authorities.				
		(A.) Amounts Written Off. (B.) Free Head-works. (C.) Uncompleted or Unallotted Works.	Balance at Debit of Authorities.	(A.) Written Off. works. (B.) Free Head-works. (C.) Uncompleted or Unallotted Works.	Commission and Other Authorities.			
Total Advances, including Cost of Loan Flotation.	Deduct Redemption Paid.	Net Advances.						
£	£	£	£	£	£	£	£	
5,133,822	49,775	5,084,047	4,908,992	245,155	8,442	236,713		£291,027 (after providing £19,646 for non-revenue producing works, including Free Head-works).
4,564,959	31,816	4,533,143	3,957,991	218,592	27,738	190,854		
{ 1,430,721 234,857	106	1,430,615	520,818	68,985	43,870	25,115		
	..	234,857	185,115	11,325	2,399	8,926		
898,761	..	898,761	724,946	43,338	8,381	34,957		
407,995	..	407,995	165,877	19,674	11,675	7,999		
2,535,552	1,000	2,534,552	..	122,217	122,217	..		
1,261,195	..	1,261,195	211,528	60,815	50,615	10,200		
522,302	..	522,302	245,297	25,185	13,357	11,828		
786,108	..	786,108	483,377	37,906	14,598	23,308		
426,447	..	426,447	122,101	20,564	14,676	5,888		
123,165	..	123,165	..	5,939	5,939	..		
2,161,107	377,657	1,783,450	1,448,497	85,998	16,151	69,847	£85,881	
862,732	148,449	714,283	550,523	34,445	7,899	26,546		
2,424,840	..	2,424,840	..	116,928	116,928	..		
32,754	30	32,724	..	1,578	1,578	..		
1,262,352	420	1,261,932	..	60,850	60,850	..		
147,046	..	147,046	..	7,091	7,091	..		
305,796	..	305,796	..	14,746	14,746	..		
25,522,511	609,253	24,913,258	13,525,062	1,201,331*	549,150	652,181	376,908	

* NOTE.—Exchange has been included in the interest debits for 1932-33. It was excluded in 1931-32.

Dated at the Office of the State Rivers and Water Supply Commission, Treasury Gardens,
Melbourne, the 30th day of October, 1933.

RICHD. HORSFIELD, Chairman.

A. S. KENYON, Commissioner.

W. TREVEAN, Commissioner.

P. J. O'MALLEY, Secretary.