

VICTORIA.

T W E N T Y - S I X T H
A N N U A L R E P O R T.

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

59 0 0

No. 9.—[1s. 6d.]—10065.

STATE RIVERS AND WATER SUPPLY COMMISSION.

WM. CATTANACH, CHAIRMAN,

E. SHAW, COMMISSIONER,

R. H. HORSFIELD, COMMISSIONER.

ANNUAL REPORT, 1930-31.

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 1930-31, and Estimates for the ensuing year.

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, 1931. 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	25,877
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 Kooem; 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	1,220,973

B.—MAIN SUPPLY WORKS.

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

Cost Apportioned and to be Apportioned to Districts benefited.

Name of Work.	Capital Debit at 30th June, 1931.	Tentative Debits to Districts, 1930-31.	
Goulburn Main Channels (Free Headworks excluded)—	£	Rodney	120,000
1. East Goulburn Main	353,045	Tragowel Plains	100,000
2. Waranga Reservoir to Campaspe	388,152	Rochester	74,000
3. West of Campaspe	646,683	Tongala	58,000
4. Goulburn Main Channel Distributaries	10,332	Shepparton	57,000
	1,398,212	Deakin	24,000
Goulburn Storages—		Boort	20,000
5. Eildon Reservoir	1,802,211	Echuca North	17,000
6. Waranga Reservoir Enlargement	608,466	Dingee	15,000
	2,410,677	Stanhope	15,000
Bacchus Marsh and Werribee Schemes—		South Shepparton	9,000
7. Ballan Tunnel	21,066		509,000
8. Pykes Creek Reservoir	143,434		
9. Melton Reservoir	85,640		
	250,140		
10. Bellarine Peninsula	307,657		
Maffra-Sale Scheme—			
11. Glenmaggie Reservoir and Channels	1,189,791		
Red Cliffs Scheme—			
12. Main and Distributary Channels	772,403		
Millewa District—			
13. Main and Distributary Channels	506,310		
Flood Protection Districts—			
14. Kooweerup and Cardinia	369,693		
15. Goulburn Levees	60,447		
	430,140		
Carried forward			

WORKS UNDER CONTROL OF COMMISSION—*continued.*Capital Debit
at 30th June,
1931,
Exclusive
of Cost of Loan
Flotation.£
8,486,303

Brought forward

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 1625 and 1651.	Redemption Paid to Treasury.	Capital Debit at 30th June, 1931.
	£	£	£	£
1. Bacchus Marsh	104,442	8,906	493	95,043
2. Boort	112,439	35,259	1,794	75,386
3. Calivil	107,520	..	..	107,520
4. Campaspe	64,660	52,685	305	11,670
5. Cohuna and Gannawarra	394,785	82,376	1,386	311,023
6. Deakin	95,438	34,748	2,144	58,546
7. Dingee	17,147	..	..	17,147
8. Dry Lake	1,704	686	299	719
9. Echuca North	23,711	..	..	23,711
10. Fish Point	15,450	..	..	15,450
11. Katandra	101,264	..	..	101,264
12. Kerang	147,373	35,338	2,334	109,701
13. Koondrook	215,422	30,872	1,562	182,988
14. Leitchville	42,824	..	..	42,824
15. Merbein	219,367	..	133	219,234
16. Mystic Park	17,018	..	..	17,018
17. North Shepparton	176,004	..	..	176,004
18. Nyah	107,074	..	..	107,074
19. Rochester	321,834	..	..	321,834
20. Rodney	698,302	149,949	8,967	539,386
21. Shepparton	178,278	..	624	177,654
22. South Shepparton	58,672	..	..	58,672
23. Stanhope	110,757	..	53	110,704
24. Swan Hill	180,372	19,799	371	160,202
25. Third Lake	25,183	..	..	25,183
26. Tongala	145,582	..	..	145,582
27. Tragowel Plains	377,121	124,534	527	252,060
28. Tresco	90,364	..	..	90,364
29. Werribee	115,475	..	10,242	105,233
	4,265,582	575,152	31,234	3,659,196

3,659,196

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 1625 and 1651.	Redemption Paid to Treasury.	Capital Debit at 30th June, 1931.
	£	£	£	£
1. Birchip	845,658	700	2,473	842,485
2. Sea Lake				
3. Tyrrell				
4. Wycheproof				
5. Carwarp	42,999	..	..	42,999
6. Coliban	1,616,480	..	..	1,616,480
7. Coreena	45,397	..	..	45,397
8. Dandenong	39,617	5,128	1,506	32,983
9. Dering	11,379	..	..	11,379
10. Eureka	4,018	..	..	4,018
11. Hindmarsh	27,088	..	..	27,088
12. Karkaroc	278,821	..	2,893	275,928
13. Kerang North-West Lakes	1,979	..	..	1,979
14. Kia	6,856	..	..	6,856
15. Long Lake	126,226	..	1,081	125,145
16. Mornington Peninsula	810,433	..	..	810,433
17. Ouyen	18,761	..	..	18,761
18. Pyramid Hill	6,239	..	1,300	4,939
19. Tyntynder	263,564	..	60	263,504
20. Upper Western Wimmera	93,897	26,567	3,450	63,880
21. Upper Wimmera United	132,869	10,918	4,499	117,452
22. Walpeup Districts	56,820	..	..	56,820
23. Werribee	11,636	..	..	11,636
24. Western Wimmera	345,328	106,268	13,198	225,862
25. Wimmera United	280,723	25,474	10,231	245,018
26. Wonthaggi	76,988	..	9,071	67,917
27. Yelta	6,033	..	..	6,033
28. Wimmera Main Channels } Amounts	107,717	..	..	107,717
29. Wimmera Storages— } being				
Fyans Lake	43,685	..	..	43,685
Taylors Lake	204,937	..	..	204,937
Pine Lake	178,493	..	..	178,493
Lake Whitton	10,336	..	..	10,336
	5,694,977	175,055	49,762	5,470,160

5,470,160

Carried forward 17,615,659

WORKS UNDER CONTROL OF COMMISSION— <i>continued.</i>				Capital Debit at 30th June, 1931. Exclusive of Cost of Loan Flotation.
Brought forward				£ 17,615,659
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, 1931.
	£	£	£	£
1. Avoca Water Trust—				
Rural District	8,386	2,494	2,576	3,316
Urban District (Quambatook) ..	4,444	..	655	3,789
2. Carrum Waterworks Trust	38,800	7,732	4,672	26,396
3. Loddon United Waterworks Trust—				
Rural District	20,186	1,717	6,890	11,579
Urban District (Mitiamo) ..	5,158	..	170	4,988
	76,974	11,943	14,963	50,068
Grand Total				£17,615,659

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 24,232 square miles, equal to about 15,508,000 acres.

The area under irrigated culture for all kinds of crops was 463,098 acres. Although owing to the unusually wet season this area was 103,479 acres less than the record area irrigated in the previous year, it was greater, by 9,900 acres, than the average area watered during the previous five years and was 74,376 acres above the average of the previous ten years.

The decrease in the area watered was mainly in the irrigation of grass, cereals, and summer fodders, the position in regard to the permanent crops being well maintained, and the area under irrigated lucerne being greater than in any previous year on record.

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

Controlling Authorities.	Number of Towns Supplied.	Estimated Population Served.
Commission	96	120,100
Waterworks Trusts	109	193,200
Local Governing Bodies ...	17	77,200
Totals	222	390,500

LANDS UNDER IRRIGATED CULTURE.

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

(A) STATEMENT OF THE EXTENT OF IRRIGATION AND OF AREAS OF DIFFERENT KINDS OF CROPS WATERED—YEAR 1930-31.

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.	Total.
<i>Supplied from Goulburn State Works.</i>								
Katandra	412	4,141	40	1,131	67	50	20	5,861
North Shepparton	380	2,660	650	550	50	30	40	4,360
Shepparton	320	3,250	350	1,430	8,670	150	340	14,510
South Shepparton	160	1,860	540	790	20	20	180	3,570
Rodney	3,575	33,075	1,777	8,484	7,573	626	359	55,469
Stanhope	229	11,384	205	672	274	42	8	12,814
Tongala	2,107	13,126	423	3,473	1,349	139	86	20,703
Rochester	6,033	26,100	2,060	8,792	2,022	242	265	45,514
Echuca North	329	2,207	917	1,351	..	226	..	5,030
Dingee	1,079	2,110	135	2,114	31	..	50	5,519
Calivil	2,845	2,611	309	746	160	..	93	6,764
Tragowel Plains	14,641	2,738	4,632	24,588	30	75	92	46,796
Deakin	370	1,187	72	131	2	7	6	1,775
Boort	5,733	519	1,625	5,575	6	292	..	13,750
Totals	38,213	106,968	13,735	59,827	20,254	1,899	1,539	242,435
<i>Supplied from River Murray State Works.</i>								
<i>(a) Torrumbarry Weir.</i>								
Leitchville	745	2,109	197	1,373	17	35	95	4,571
Cohuna	2,101	4,332	930	16,079	92	356	2,472	26,362
Gannawarra	3,356	1,467	1,981	11,709	68	308	1,020	19,909
Koondrook	4,881	1,936	1,732	9,779	899	255	162	19,644
Swan Hill	4,126	5,236	686	4,025	2,954	601	38	17,666
Third Lake	957	89	199	1,965	..	23	..	3,233
Mystic Park	1,023	396	317	660	..	..	..	2,396
Tresco	14	56	23	44	1,022	8	5	1,172
Fish Point	189	162	127	1,039	3	..	..	1,520
Kerang	6,802	898	3,953	18,420	30	367	54	30,524
Dry Lake .. .. .	..	..	..	260	2	..	..	262
Kerang North-West Lakes	1,122	196	117	1,008	499	..	2	2,944
Lands supplied direct (outside Districts)	1,307	1,293	221	1,720	20	..	26	4,587
Totals	26,623	18,170	10,483	68,081	5,606	1,953	3,874	134,790
<i>(b) Direct from River.</i>								
Nyah	150	70	..	..	2,610	..	25	2,855
Red Cliffs .. .. .	..	200	150	300	10,200	..	..	10,850
Merbein .. .. .	..	107	..	..	7,493	..	74	7,674
Totals	150	377	150	300	20,303	..	99	21,379
Totals (River Murray State Works)	26,773	18,547	10,633	68,381	25,909	1,953	3,973	156,169
<i>Supplied from Loddon and Other Northern State Works.</i>								
Boort	722	..	..	600	..	..	..	1,322
Coliban	136	547	404	1,928	4,941	157	194	8,307
Campaspe	357	217	..	427	..	..	..	1,001
Western Wimmera .. .. .	..	81	82	..	1,274	..	..	1,437
Totals	1,215	845	486	2,955	6,215	157	194	12,067
<i>Supplied from Southern State Works.</i>								
Bacchus Marsh	8	1,611	108	758	216	117	..	2,818
Werribee	897	2,284	287	3,437	325	686	465	8,381
Narre Warren	100	4	..	160	20	28	150	462
Maffra	36	922	829	4,131	..	499	343	6,760
Sale	2	1,262	375	2,280	4	108	210	4,241
Totals	1,043	6,083	1,599	10,766	565	1,438	1,168	22,662
<i>Supplied from other Works.</i>								
First Mildura District .. .. .	..	375	175	..	11,281	..	165	11,996
Private Diversions—Kerang (outside Districts)	450	184	159	474	2	..	..	1,269
Other Private Diversions throughout the State	2,000	3,500	3,000	2,500	4,200	1,000	300	16,500
Totals	2,450	4,059	3,334	2,974	15,483	1,000	465	29,765
Grand Totals 1930-31	69,694	136,502	29,787	144,903	68,426	6,447	7,339	463,098
Grand Totals, 1929-30	93,803	135,111	59,401	186,249	70,265	12,596	9,152	566,577

(B) COMPARATIVE STATEMENT OF THE EXTENT OF IRRIGATION, 1926-27 TO 1930-31.

Source of Supply.	Area under Irrigation (Acres).				
	1926-27.	1927-28.	1928-29.	1929-30.	1930-31.
Goulburn State Works	206,459	261,812	245,658	322,039	242,435
River Murray State Works	140,256	156,202	160,760	173,642	156,169
Loddon and other Northern State Works	12,205	14,485	14,172	12,486	12,067
Southern State Works	16,894	14,085	19,888	25,831	22,662
Mildura and Private Diversions	30,718	30,916	31,217	32,579	29,765
Totals	406,532	477,500	471,695	566,577	463,098

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 Hicksborough, and for a half-year in the Urban Districts of Bunyip, Crib Point, and Garfield, while in the Walpeup Central Waterworks District a rate was also, for the first time, made.

The Tyrrell Waterworks District and portion of the Walpeup West Waterworks District were amalgamated, and then subdivided into the Tyrrell and Walpeup Central Waterworks Districts.

In thirty-six 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 and Cardinia Flood Protection Districts, where the charging is on an acreage basis, were similarly divided into three divisions. As heretofore in the Urban portion of the Coliban system, a minimum and tapering rate has been made, while the Carrum Waterworks Trust District has, as in past years, been arranged in five rating divisions in accordance with the relative benefits derived by such lands from the works.

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

In twenty-five 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, 1931.	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, 1930, to 30th June, 1931	773
2. BOORT ..	18,310	2 0	1 0	..	" " "	651
3. CALIVIL ..	15,468	1 0	..	..	" " "	200
4. CAMPASPE ..	10,690	2 0	1 0	0 6	" " "	576
5. COHUNA ..	23,455	2 0	1 0	0 6	" " "	1,029
6. DEAKIN ..	52,096	1 8	0 10	0 5	" " "	1,660
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, 1930, to 30th June, 1931	568
10. FISH POINT ..	1,643	1 0	..	..	" " "	155
11. GANNAWARRA ..	20,216	2 0	1 0	0 6	" " "	488
12. KATANDRA ..	8,449	1 0	..	..	" " "	670
13. KERANG ..	20,969	2 4	1 2	0 7	" " "	1,140
14. KOONDRICK ..	23,249	2 0	1 0	..	" " "	1,230
15. LEITCHVILLE ..	7,708	2 0	..	..	" " "	435
16. MAFFRA ..	33,086	1 0	0 6	..	" " "	1,168
17. MERBEIN ..	26,502	1 0	..	..	" " "	3,500
18. MYSTIC PARK ..	4,732	1 0	..	..	" " "	105
19. NORTH SHEPPARTON ..	40,632	1 0	..	..	" " "	1,310

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, 1931.	Period of Rate.	Estimated Number of Persons dwelling in District.
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IRRIGATION AND WATER SUPPLY DISTRICTS—*continued.*

	Valuation by Commission.	Divisions.				
		1st.	2nd.	3rd.		
	£	s. d.	s. d.	s. d.		
20. NYAH	6,809	1 0	..	..	1st July, 1930, to 30th June, 1931	1,000
21. RED CLIFFS	23,623	1 0	..	..	" " "	2,740
22. ROCHESTER	67,087	1 0	0 6	0 3	" " "	4,190
23. RODNEY	144,567	1 0	0 6	0 3	" " "	5,475
24. SALE	15,842	1 0	..	..	" " "	675
25. SHEPPARTON	38,909	1 0	..	..	" " "	2,550
26. SOUTH SHEPPARTON ..	15,117	1 0	..	..	" " "	540
27. STANHOPE	15,085	1 0	..	..	" " "	780
28. SWAN HILL	24,401	1 0	..	..	" " "	1,490
29. THIRD LAKE	2,431	2 0	..	..	" " "	165
30. TONGALA	29,318	1 0	..	..	" " "	2,200
31. TRAGOWEL PLAINS ..	43,919	1 0	0 6	0 3	" " "	1,730
32. WERRIBEE	18,879	1 0	..	..	" " "	1,097

WATERWORKS DISTRICTS.

33. AXE CREEK	1,683	2 0	..	..	1st July, 1930, to 30th June, 1931	260
34. BARING	1,295	5 0	2 6	1 3	" " "	150
35. BIRCHIP	40,519	2 4	1 2	0 7	" " "	2,650
36. CARWARP	9,417	3 10	1 11	0 11½	" " "	771
37. CARWARP CENTRAL ..	1,065	5 0	2 6	..	" " "	205
38. COREENA	12,148	5 0	2 6	1 3	" " "	400
39. DERLING	2,505	6 0	3 0	1 6	" " "	213
40. EUREKA	1,797	4 0	2 0	1 0	" " "	117
41. HARCOURT	8,686	1 6	..	..	" " "	600
42. HINDMARSH	9,239	3 6	1 9	0 10½	" " "	238
43. KARKAROOC	147,850	2 2	1 1	0 6½	" " "	4,000
44. KERANG N.W. LAKES	8,074	0 6	..	..	" " "	580
45. KIA	5,055	5 0	2 6	1 3	" " "	300
46. LONG LAKE	72,554	2 10	1 5	0 8½	" " "	2,330
47. MILLEWA	13,481	5 0	2 6	1 3	" " "	2,350
48. MILLEWA CENTRAL ..	9,031	7 6	3 9	1 10½	" " "	1,250
49. NARRE WARREN	3,219	1 0	..	..	" " "	240
50. SEA LAKE	67,539	2 8	1 4	0 8	" " "	2,414
51. TYNTYNDER	56,507	3 4	1 8	0 10	" " "	3,000
52. TYRRELL	103,502	3 4	1 8	0 10	" " "	5,635
53. UPPER WEST'N WIMMERA	64,970	1 6	0 9	0 4½	" " "	1,688
54. UPPER WIMMERA UNITED	114,257	1 6	0 9	0 4½	" " "	2,750
55. WALPEUP CENTRAL ..	9,178	5 6	2 9	1 4½	" " "	400
56. WALPEUP WEST	66,247	0 9	0 4½	..	" " "	2,500
57. WERRIBEE	8,156	2 0	..	..	" " "	140
58. WESTERN WIMMERA ..	291,900	1 2	0 7	0 3½	" " "	8,808
59. WIMMERA UNITED	344,169	1 2	0 7	0 3½	" " "	7,800
60. WYCHEPROOF	77,518	2 4	1 2	0 7	" " "	2,947
61. YELTA	2,771	3 4	..	..	" " "	150

WATERWORKS TRUSTS.

	Municipal Valuation.					
	£	s.	d.			
62. AVOCA	34,283	..	0 4	1st January, 1931, to 31st December, 1931		990
63. MITIAMO (URBAN) ..	871	..	4 0	" " "		190
64. QUAMBATOOK (URBAN)	3,848	..	2 6	" " "		330
65. CARRUM	31,561	1st Division	3 8	" " "		1,500
		2nd Division	1 10			
		3rd Division	1 0			
		4th Division	0 10			
		5th Division	0 3			
		Valuation by Commission.				
	£					
66. LODDON UNITED	96,798	1st Division	0 8	" " "		3,520
		2nd Division	0 4			
		3rd Division	0 2			

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

Districts Supplied with Water for Domestic and Ordinary Use and for Watering Cattle or other Stock.	Annual Value of Lands and Tenements.	Rate in the £1 made during year ended 30th June, 1931.	Period of Rate.	Estimated Number of Persons dwelling in District.
URBAN DIVISIONS AND DISTRICTS				
	Municipal Valuation. £	s. d.		
67. ANTWERP	291	5 0	1st July, 1930, to 30th June, 1931	80
68. BACCHUS MARSH ..	17,600	1 6	" " "	1,827
69. BERRIWILLOCK ..	1,687	3 6	" " "	160
70. BERWICK	6,356	2 0	" " "	900
71. BEULAH	5,029	2 3	" " "	500
72. BIRCHIP	8,297	1 8	" " "	965
73. BITTERN	668	3 0	" " "	80
74. BRIM	1,522	4 0	" " "	200
75. BUNYIP	3,544	1 3	1st Jan., 1931, to 30th June, 1931	400
76. CARRUM	89,003	1 4	1st July, 1930, to 30th June, 1931	6,355
77. CARWARP	207	5 0	" " "	44
78. CHILLINGOLLAH ..	602	5 0	" " "	100
79. CHINKAPOOK	672	6 0	" " "	120
80. COHUNA	10,085	1 9	" " "	900
81. COROP	271	2 0	" " "	90
82. CRANBOURNE	2,858	2 0	" " "	250
83. CRIB POINT	3,395	1 6	1st Jan., 1931, to 30th June, 1931	450
84. CULGOA	1,513	3 6	1st July, 1930, to 30th June, 1931	155
85. DANDENONG	63,105	1 3	" " "	4,500
86. DIMBOOLA	17,831	1 6	" " "	1,622
87. DINGEE	499	4 0	" " "	90
88. DOON	204	2 0	" " "	30
89. FRANKSTON	51,917	1 4	" " "	5,320
90. GARFIELD	2,561	1 3	1st Jan., 1931, to 30th June, 1931	320
91. HASTINGS	1,958	3 0	1st July, 1930, to 30th June, 1931	460
92. HICKSBOROUGH ..	519	3 9	" " "	100
93. HOPE TOWN	7,683	2 3	" " "	700
94. JEPARIT	9,348	1 9	" " "	865
95. JUNG JUNG	954	3 0	" " "	170
96. KOONDROOK	3,945	2 6	" " "	470
97. LAKE BOGA	2,660	3 0	" " "	370
98. LALBERT	1,171	5 0	" " "	155
99. LASCELLES	1,221	3 6	" " "	130
100. LEITCHVILLE ..	2,378	3 0	" " "	214
101. LOCKINGTON	1,604	3 6	" " "	240
102. MANANGATANG ..	2,377	3 6	" " "	220
103. MARNOO	1,805	3 6	" " "	300
104. MARONG	828	3 0	" " "	300
105. MERBEIN	8,781	3 0	" " "	700
106. MERINGUR	407	7 0	" " "	130
107. MINYIP	6,480	2 9	" " "	800
108. MORNINGTON	45,120	1 4	" " "	2,200
109. MOUNT MARTHA ..	7,060	2 0	" " "	150
110. MURRABIT	230	6 0	" " "	40
111. NANDALY	421	6 0	" " "	107
112. NATIMUK	4,040	1 6	" " "	595
113. NORTH WONTHAGGI ..	4,938	2 0	" " "	1,000
114. NULLAWIL	1,000	5 0	" " "	105
115. NYAH	822	2 6	" " "	170
116. NYAH WEST	4,666	2 9	" " "	310
117. OUYEN	12,678	2 6	" " "	880
118. PAKENHAM	6,332	2 0	" " "	650
119. PATCHEWOLLOCK ..	605	6 0	" " "	150
120. PIANGIL	1,906	3 6	" " "	220
121. PYRAMID HILL ..	3,485	3 0	" " "	600
122. RAINBOW	10,207	1 9	" " "	960
123. RED CLIFFS	10,492	2 9	" " "	781
124. RUPANYUP	5,958	2 9	" " "	700
125. SEA LAKE	8,100	2 0	" " "	605
126. SOMERVILLE	1,737	2 6	" " "	260
127. SOUTH FRANKSTON ..	11,553	2 6	" " "	725
128. SPEED	521	10 0	" " "	110
129. SPRINGVALE	27,440	1 6	" " "	1,820
130. STANHOPE	1,015	4 0	" " "	300
131. TEMPY	478	6 6	" " "	132
132. ULTIMA	3,153	3 0	" " "	390
133. WAITCHIE	408	5 0	" " "	100
134. WATCHEM	2,286	3 0	" " "	260
135. WERRIMULL	904	7 0	" " "	150
136. WONTHAGGI	35,887	1 6	" " "	9,000
137. WOOMELANG	2,924	2 9	" " "	115
138. WOORINEN	546	4 0	" " "	60
139. WYCHEPROOF	9,606	2 0	" " "	810
140. YAAPEET	365	7 6	" " "	108

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

Districts Supplied with Water for Domestic and Ordinary Use and for Watering Cattle or other Stock.	Annual Value of Lands and Tenements.	Rate in the £1 made during year ended 30th June, 1931.	Period of Rate.	Estimated Number of Persons dwelling in District.
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COLIBAN SYSTEM.

	Municipal Valuation. £	s. d.		
141. COLIBAN ..	390,690	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	1st July, 1930, to 30th June, 1931	61,000

FLOOD PROTECTION DISTRICTS.

	Valuation by Commission. £	s. d.		
142. ECHUCA (HIGH-ST.)	1,454	.. 1 0	1st July, 1930, to 30th June, 1931	80
143. CARDINIA ..	36,206	1st Div. (p.ac.) 3 0 2nd Div. (p.ac.) 1 6 3rd Div. (p.ac.) 0 9	" " "	850
144. LOWER KOOWEERUP }	54,834	1st Div. (p.ac.) 2 0 2nd Div. (p.ac.) 1 0 3rd Div. (p.ac.) 0 6	" " "	2,500
145. KANYAPELLA ..	14,494	1st Div. (p.ac.) 0 7 2nd Div. (p.ac.) 0 3½	" " "	68
146. LOCH GARRY ..	40,886	Per acre .. 0 6	" " "	200

B.—COMPULSORY IRRIGATION CHARGES.

Irrigation and Water Supply District.	Area of District in Acres.	Area at present Irrigable in Acres.	Water Rights apportioned (including Extra Rights) in Acre-feet.	Compulsory Charge per Acre-foot of Water Right.	Period of Charge.
1. BACCHUS MARSH ..	6,684	3,360	3,360	22s. 6d.	1st October, 1930, to 30th April, 1931
2. COHUNA ..	36,543	22,920	22,959	6s.	1st September, 1930, to 30th April, 1931
3. DINGEE ..	6,393	4,494	4,494	7s.	" " " "
4. ECHUCA NORTH ..	13,863	5,653	5,692	7s. 6d.	" " " "
5. FISH POINT ..	6,379	3,951	1,942	8s.	" " " "
6. GANNAWARRA ..	53,509	19,892	19,966	6s.	" " " "
7. KOONDROOK ..	61,847	18,812	18,812	6s.	" " " "
8. LEITCHVILLE ..	13,232	11,448	3,878	7s.	" " " "
9. MAFFRA ..	23,043	9,991	13,704	10s.	" " " "
10. MERBEIN ..	8,469	7,674	19,178	24s. Min. 60s. per acre	1st August, 1930, to 30th April, 1931
11. MYSTIC PARK ..	18,764	9,416	3,187	6s.	1st September, 1930, to 30th April, 1931
12. NYAH ..	3,737	3,125	7,751	20s. Min. 50s. per acre	1st August, 1930, to 30th April, 1931
13. RED CLIFFS ..	30,836	11,063	27,658	28s. Min. 70s. per acre	" " " "
14. ROCHESTER ..	172,244	55,549	56,152	6s.	1st September, 1930, to 30th April, 1931
15. RODNEY ..	267,765	190,664	60,575	6s.	" " " "
16. SALE ..	15,056	8,014	5,430	10s.	" " " "
17. SHEPPARTON ..	24,594	21,730	21,730	6s.	" " " "
18. SOUTH SHEPPARTON	33,608	18,808	4,715	8s.	" " " "
19. STANHOPE ..	26,003	18,809	17,865	6s.	" " " "
20. SWAN HILL ..	36,450	21,900	21,900	6s.	" " " "
21. THIRD LAKE ..	12,128	4,128	2,753	7s.	" " " "
22. TONGALA ..	45,476	29,050	28,662	6s.	" " " "
23. TRAGOWEL PLAINS	214,684	147,898	31,281	7s.	" " " "
24. TRESCO ..	3,390	2,034	5,085	40s. (per acre)	1st January, 1930, to 31st Dec., 1930
25. WERRIBEE ..	9,971	7,968	7,991	12s.	1st October, 1930, to 30th April, 1931

CONTRACTS.

STATEMENT OF CONTRACTS ENTERED INTO DURING THE YEAR ENDED 30TH JUNE, 1931.

No.	Name of Contractor.	Work or Supply.	Amount (Loan and Vote.)		
			£	s.	d.
2653	Thompson's Engineering & Pipe Co. Ltd.	Steel Pipes, Bellarine Peninsula	1,000	8	0
2654	Australian Cement Ltd.	4,000 tons Cement	18,066	13	4
2655	A. J. Lindorff	Firewood, Nyah	225	0	0
2656	B. F. Belz	Firewood, Nyah	225	0	0
2657	A. J. Belz	Firewood, Nyah	450	0	0
2658	A. Jeans	Firewood, Nyah	750	0	0
2659	E. E. Algie	Firewood, Nyah	150	0	0
2660	W. H. Duffy	Firewood, Nyah	303	0	0
2661	J. A. Bettie	Firewood, Merbein	370	16	8
2662	F. T. Rose	Firewood, Merbein	166	13	4
2663	J. H. Russell	Firewood, Merbein	750	0	0
2664	C. Knight	Firewood, Merbein	320	16	8
2665	W. Russell	Firewood, Merbein	741	13	4
2666	W. Russell	Firewood, Merbein	758	6	8
2667	J. H. Storer	Firewood, Merbein	512	10	0
2668	A. Storer	Firewood, Merbein	342	6	8
2669	I. T. Storer	Firewood, Merbein	170	16	8
2670	J. J. O'Halloran	Firewood, Merbein	916	13	4
2671	T. W. McCredden	Firewood, Nyah	187	3	3
2672	F. Russell	Firewood, Merbein	758	6	8
2673	F. Russell	Firewood, Merbein	741	13	4
2674	Thompson's Engineering & Pipe Co. Ltd.	Mild Steel Pipes, Bellarine Peninsula	2,233	1	10
2675	R. Leersen	Firewood, Tresco	400	0	0
2676	F. L. Kemp	Eastern Goulburn Main Channel Extension	260	9	9
2677	G. Burgess & Sons	Eastern Goulburn Main Channel Extension	196	9	2
2678	W. Dole & Sons	Terricks Channel No. 1	100	2	1
2679	Heil, Clapham & Genders	Terricks Channel No. 1	36	8	6
2680	F. Maynard	Terricks Channel No. 1	74	7	6
2681	Heil, Clapham & Genders	Terricks Channel No. 1	67	8	4
2682	Heil, Clapham & Genders	Terricks Channel No. 1	96	5	10
2683	O. Sinclair	Terricks Channel No. 1	56	8	1
2684	M. Findlay	Terricks Channel No. 1	54	16	6
2685	R. Carr	Firewood, Millewa	583	1	0
2686	W. Garrigan	Firewood, Millewa	270	16	8
2687	J. Mannix	Firewood, Millewa	285	3	6
2688	M. O'Halloran	Firewood, Millewa	362	10	0
2689	E. O'Halloran	Firewood, Millewa	122	18	4
2690	G. L. Holmes	Firewood, Millewa	431	5	0
2691	A. Graham	Firewood, Millewa	275	0	0
2692	L. W. Opie	Firewood, Millewa	438	7	6
2693	C. Webb	Firewood, Millewa	128	16	4
2694	P. J. McPhee	Firewood, Millewa	295	18	8
2695	T. M. Dunne	Firewood, Millewa	280	7	0
2696	R. W. Hobbs	Firewood, Millewa	186	0	0
2697	R. O'Shannessy	Firewood, Millewa	187	10	0
2698	A. Gibbs	Firewood, Millewa	187	10	0
2699	L. C. Decker	Firewood, Millewa	187	10	0
2700	R. L. May	Firewood, Millewa	141	13	4
2701	Australian Wood Pipe Co. Ltd.	Wood Stave Pipes, Bendigo	3,400	7	4
2702	Thompson's Engineering & Pipe Co. Ltd.	Steel Pipes, Eildon Reservoir	6,045	18	8
2703	Australian Cement Ltd.	2,000 tons Cement	9,033	6	8
	Sundry small contracts at piece-work rates—Distributary channels .. .. .	.. .. .	213,152	0	0
	Total .. .. .	.. .. .	267,479	13	6

DIRECT LABOUR.

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

Works.	Amount.
River Murray Storages (Hume Reservoir and Traffic Diversions)	£49,705
Eildon Reservoir	33,187
Wimmera-Mallee System	20,539
Mornington Peninsula	19,512
Bellarine Peninsula	18,283
Rochester, Rodney, Shepparton, Stanhope, and Tongala Districts	14,651
Maffra District (Glenmaggie Reservoir) and Sale District	8,874
Merbein, Millewa, Red Cliffs, Coreena, Carwarp, and Walpeup Districts	8,232
Coliban District	8,164
Cohuna, Kerang, Kerang Lakes, Koondrook, and Mystic Park Districts	7,864
Goulburn Main Channels	7,678
Other Districts	6,317
Bacchus Marsh and Werribee Districts	5,291
Boort, Tragowel Plains, Nyah, and Swan Hill Districts	5,102
Campaspe and Loddon Rivers Storages	4,399
Kooweerup, Cardinia, and Other Flood Protection Districts	2,860
Unemployment Relief Expenditure in various Districts	188,332
Total	£408,990

WORKS CARRIED ON OR COMPLETED DURING THE YEAR ENDED 30TH JUNE, 1931.

Throughout Districts generally, while a large number of necessary works were carried out, they were, in comparison to previous years, greatly reduced to meet the existing need for economy:

In all Districts the cost of administration was carefully reviewed and large savings were effected.

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

COLIBAN SYSTEM.

Included under this System are the City of Bendigo, the important Towns of Castlemaine, Eaglehawk, and Maldon, and the adjoining towns and districts.

At Jackass Flat, near California Gully, the system of supplying irrigation water under pressure through pipes was installed, and a satisfactory supply was given last summer. At South Lockwood, where a similar scheme has been in operation for a few years, a balancing basin was constructed, thereby enabling an additional area to be supplied as well as providing a more uniform pressure.

Considerable lengths of the Main Channel near Malmsbury and sections of the important subsidiary races in the Bendigo, Castlemaine, and Harcourt Districts were enlarged and portions concrete lined.

A new 18 inch main to give an improved water supply to North Bendigo has been laid, and large portions of the reticulation of both Bendigo and Eaglehawk have been remodelled.

To supplement the supply to Specimen Hill Reservoir, a new high level race, about 2 miles long, has been put in hand, while important repairs to the By-wash at the Upper Coliban Reservoir were effected, and at Spring Gully Reservoir a new reinforced concrete regulating tower is under construction.

To assist gold seekers ample supplies of water were made available from the two main storages on the Coliban River.

IRRIGATION AND WATER SUPPLY DISTRICTS.

RODNEY DISTRICT.

In this District, 9 miles of branch channels were remodelled, a number of old timber structures were either replaced with concrete ones or repaired and strengthened, two new spur channels were constructed to supply new lands at Undera, while the abandoned portion, some $2\frac{1}{2}$ miles long, of the Kennedy-Sherry Channel was repaired thereby bringing about 700 acres back under irrigation.

DISTRICTS ADMINISTERED FROM SHEPPARTON CENTRE.

During the recent abnormally wet season the drainage system in the Shepparton District proved of immense value by preventing serious flooding of lands in the District.

In the North Shepparton District, the construction of the Bunbartha Channel, a distance of $4\frac{1}{2}$ miles, was completed. The Narioka Main Channel was extended for a length of 2 miles, and all main structures have been constructed in readiness for the extension of the channel for a further 2 miles. The spur channel supplying lands adjacent to the Nathalia Township will be completed in time for the irrigation this year.

Throughout the Katandra District the drainage system was extended by the construction of about 3 miles of drainage channels.

SWAN HILL DISTRICT.

The channel system was further improved by the enlargement of a section of the Western Channel and the removal of drift sand. Some pipe drainage works were laid down and repairs were made to the Little Murray Weir.

DISTRICTS ADMINISTERED FROM KERANG CENTRE.

In Kerang District, the Macorna North No. 5 and No. 5A Channels, which had been reconditioned and provided with new concrete regulating structures, were put into satisfactory operation. Drainage subways were constructed in the No. 1 Main Distributary Channel and the branch channel on the Boort Road near Kerang. At Flowerdays Estate, in the Koondrook District, the stormwater drainage system, recently completed, operated satisfactorily.

DISTRICTS ADMINISTERED FROM COHUNA CENTRE.

The drainage systems provided in the Cohuna and Leitchville Districts proved effective in removing surplus water into Barr Creek. Several drainage channels were cleaned, and a marked improvement in the efficiency of such drains was obtained.

Water under pressure was supplied without interruption to tenements in the Cohuna and Leitchville Urban Divisions.

DISTRICTS ADMINISTERED FROM LODDON CENTRE.

Owing to the improvements effected to the channel system and the advice given by the Commission's Officers, better and more scientific methods of irrigation are being steadily adopted by landholders in the Tragowel Plains District, and the acreage under lucerne and seeded pastures is being increased. Great local interest is taken in the pasture experimental plots at Central Mologa.

The works carried out were of a minor, but essential, character.

BOORT DISTRICT.

Many irrigators in this District are steadily improving their methods of water distribution. All tanks in the Loddon United area west of the Loddon River were filled during the year, while a regular flow of water was maintained in the Loddon-Avoca Section of the Waranga Western Channel. Drainage works carried out early in the year greatly minimized damage done by flood waters crossing this channel.

DISTRICTS ADMINISTERED FROM ROCHESTER CENTRE.

The remodelling of the Cornelia Creek Channel which, with its branches, supplies some 14,000 acres in the Rochester District and also the southern portion of the Echuca North District, was completed over a length of $9\frac{1}{2}$ miles by means of a dragline excavator. Two supply channels, totalling 80 chains in length, were constructed, and the remaining structures on Spur Channel No. 10, Nanneella, were duplicated to meet the increased demand for irrigation supplies in that area.

Further investigations have been made with a view to extending the comprehensive drainage system in operation in the District. The relief given by this system in the extremely wet year just experienced enabled landholders to carry on successfully.

In the Campaspe District, repairs were effected to the Campaspe Weir and remodelling of the Campaspe Eastern and Western Channels has been put in hand.

DISTRICTS ADMINISTERED FROM TONGALA CENTRE.

In the Tongala District, $1\frac{1}{4}$ miles of old channel were cleaned out thus preventing flooding of a section of the Shepparton-Echuca Road, and 23 chains of irrigation channel on Crisp's Estate, Kyabram, were completed. The enlargement of the Wyuna Main Channel by dragline excavator was proceeded with, $8\frac{1}{2}$ miles being now practically completed.

The recently established drainage system in the Stanhope District was, for the first time, put to a severe test during the year and proved most effective. In this District the No. 1 and No. 2 Main Channels were cleared of silt and one bridge and check were duplicated. A syphon was constructed under the railway line on the Spur Channel $4\frac{1}{2}$, Lauderdale Estate. To supply landholders at the south of the proposed Timmering District, $1\frac{1}{2}$ miles of channel were completed.

BACCHUS MARSH AND WERRIBEE DISTRICTS.

To improve the pressure in the Bacchus Marsh Urban Division a new service basin of 4,000,000 gallons was constructed at Grant's Gully. The high level channel supplying the basin was also concrete lined for a distance of $2\frac{1}{2}$ miles.

In the Bacchus Marsh District a number of measuring wheels were installed to replace pipe outlets, while to improve the supply in the Darley Main Channel 16 chains of new concrete channel were constructed to connect with the high level channel.

The additions to Pykes Creek Reservoir have been completed, and the capacity has now been increased to 21,000 acre feet.

In the Werribee Irrigation District an additional 5 miles 20 chains of irrigation channels were concrete lined; this work is of great value as it increases the efficiency of deliveries by saving water otherwise lost by seepage, and also gives irrigators an improved service. The usual supplies of water for domestic and stock purposes were provided for lands in the Waterworks District as well as the Irrigation area.

MERBEIN DISTRICT.

All water requirements for this District were supplied and met all demands.

The dried fruits produced this year were of better quality and are realizing improved prices on the Overseas Markets.

In the Urban District all the water requirements of the township were met.

RED CLIFFS DISTRICT.

The irrigation requirements of this District were also fully met, three general waterings and two partial waterings being given.

The dried fruit crop was 11,000 tons; the quality, however, was better, and greatly improved prices were realized Overseas, and, generally, prospects are much better than at the close of last year.

All demands for water in the Red Cliffs Urban Division were satisfied, and the township continues to maintain its progress.

NYAH DISTRICT.

The irrigation requirements of this District were fully met, four waterings being given. The total depth of water pumped was equal to 28 inches over the area irrigated.

MYSTIC PARK, TRESCO, AND FISH POINT DISTRICTS.

In Mystic Park District, a channel 35 chains in length was constructed to provide an outfall for the Main Channel. During the season a full water supply was given to all irrigators.

Construction work in the Tresco District consisted of the remodelling of $2\frac{1}{4}$ miles of earthen channel and some structures. Owing to heavy rains, the demand for water was not as great as in previous seasons. Three waterings were given, the volume pumped, expressed in depth over the total area irrigated, being 30.4 inches.

In Fish Point District, several new channel structures were built. Rotational waterings to suit requirements were given under Water Rights.

KERANG NORTH-WEST LAKES DISTRICT.

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

Protective works, consisting of tree planting, were carried out on frontages of Lakes Kangaroo, Tutchewop, and Charm respectively.

MAFFRA-SALE DISTRICTS.

Owing to the wet Spring, the irrigation of lands in these Districts did not commence until the middle of December, but from then on until the end of May there was a very heavy demand for irrigation supplies. As a special concession, the Commission extended the 1930-31 Irrigation Season to the 31st May, thereby enabling irrigators who had not used their full water rights to use water for another month without payment for excess water.

Channels constructed during the year totalled 12 miles, 7 miles being in the Sale District, and 5 miles in the Maffra District. These extensions will command an additional area of some 1,800 acres which can now be included in the Sale District, as well as providing a supply to 1,300 acres already in the Districts but not previously commanded.

A total length of 17 miles of drainage channels was constructed during the year, chiefly in the Sale District, the most important being the main Myrtlebank Drainage Channel, which gives relief to most of the Closer Settlement area. The Airly-Nuntin Drainage Channel was connected to the Avon River, and further surveys have been carried out for the future extension of the drainage system as required.

A commencement has been made with the work of increasing the capacity of the Boisdale-Sale Main Channel, which supplies the lower end of Boisdale and the Sale District, and a control gate is being put in the Main Northern Channel at the Boisdale Tunnel.

Contour surveys of 12,700 acres were completed for future channel extensions into areas in which landholders are anxious to be supplied with water.

The reticulation of the township of Heyfield having been completed, the Heyfield Urban Division was proclaimed, and all houses are being connected to the water mains.

INVESTIGATIONS OF NEW IRRIGATION AND WATER SUPPLY PROPOSALS.

As there will be an ample supply of water from the Hume Reservoir on the River Murray for the irrigation of lands in the Rutherglen, Yarrawonga, and Cobram areas, contour surveys are proceeding for the location, when required, of the necessary distributary channels. Surveys are also being made of lands which could be commanded from the proposed diverting Weir at Yarrawonga mentioned in the last Annual Report. Boring and shaft sinking operations are being carried out in connexion with the foundations for both the weir structure and the offtake work on the Victorian side of the River Murray, and these are proving quite satisfactory.

Preliminary surveys in connexion with investigation of the possibility of increasing the storage capacity of the present Laanecoorie Reservoir on the Loddon River are practically completed.

In regard to the possible extension of the Boort District, contour surveys have been further extended, and surveys have also been made in connexion with the possibility of providing emergency outlets from the Waranga Western Main Channel Extension System, which, while improving the existing Boort District System, will also safeguard the Main Channel System itself.

In connexion with the proposed water supply to certain lands in the Shires of Bulla, Keilor, Melton, Braybrook, and Werribee, further investigations are being made in regard to a modified scheme of water supply from a Reservoir at Konagaderr for the irrigation of a compact area only.

Investigations into a proposal for a Domestic and Stock supply to towns in the Western District were sufficiently advanced to enable a scheme to be prepared on general lines for the supply from Arkins Creek branch of the Carlisle River to Camperdown, Cobden, Terang, Warrnambool, Koroit, and Port Fairy and the intervening districts. Warrnambool and Koroit are at present the only towns having reticulated water supplies, but these are not altogether satisfactory. The scheme was submitted to the various Local Authorities concerned, and they now have the proposal under consideration.

Schemes for a Domestic and Stock supply to Newstead on the Loddon River, for a limited Irrigation Scheme to an area on the Little River near Werribee, and for extensions and new supplies to several other centres are under consideration.

WATERWORKS DISTRICTS.

CARWARP AND CARWARP CENTRAL DISTRICTS.

The annual run of water to fill tanks in these Districts was given, and all requirements for domestic and stock purposes were met. A commencement was made with the work of preparing the channels for the 1931-32 run.

COREENA DISTRICT.

The construction of 7 miles 65 chains of channel was completed, thereby increasing the total length of channels in this District to 100½ miles. The third annual watering was given in 55 days, during which time about 97 miles of channel were run and 83 tanks were filled.

YELTA DISTRICT.

Work in this District was confined to the annual running of water in channels and the filling of dams. All requirements for domestic and stock use were provided.

WIMMERA-MALLEE WATER SUPPLY.

In the Districts controlled from this System, the heavy rains during the late Spring and Summer of the year under review had the effect of producing strong natural growth; this should in future minimize the drift sand problem which has been very prevalent and troublesome for the past six years. This sand drift problem has assumed such serious proportions that the Commission felt that strong practical steps must be taken to deal with the trouble. With this object in view, a conference of all public bodies whose works were more or less directly affected by sand drift was called by the Honorable the Minister of Water Supply so that uniform action could be taken and plans made in anticipation of the next cycle of dry years when excessive sand drift must recur. The conference, in recommending that a committee be appointed to thoroughly investigate the question, pointed out the necessity of framing legislation for the regulation and control of sand drift by providing wind breaks and reserves and by the supervision and regulation of adjacent cultivation. The bodies chiefly affected, in addition to the Water Commission, are the Victorian Railways, Country Roads Board, and various Municipal Councils.

During the year, the construction of the channel, mentioned in the last Annual Report, to divert the surplus flows from the headwaters of the Glenelg River in the Grampians was completed. This channel, which was undertaken as an Unemployment Relief work, is about 30 miles in length with a capacity of 100 cusecs and will divert surplus flows from the Glenelg River, which at present run to waste, into Pine Lake and Taylors Lake, thus providing a most valuable supplementary supply for the Wimmera-Mallee storages.

Full supplies of water for domestic and stock purposes were run through the 6,110 miles of channels to all holdings in the area of 11,000 square miles which now comprises the system. In addition, abundant water supplies were provided for the towns controlled by local Waterworks Trusts as well as for the following Urban Districts which have pipe reticulation systems controlled by the Commission, and number 37 in all:—

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

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

In order to supplement the main distributary channels, the Kellallac Main Channel near Murtoa was remodelled for a distance of 20 miles and enlarged to carry 35 cusecs, enabling a greater number of channels in the northern parts of these Districts to be run simultaneously and thus expedite the watering.

In addition to ordinary maintenance, other works carried out during the year were in the nature of remodelling minor channels to obtain greater efficiency.

In the Urban District of Lascelles, an oil engine with pump was installed to augment the supply [by windmill, and thus ensure a more continuous service over long periods of calm weather.

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

The Walpeup High Level Scheme, consisting of a 60 horse-power crude oil plant, 65 chains of 15 inch diameter concrete-lined steel rising main, and some 60 miles of distributary channels, was completed during the year, and a satisfactory run in the channels was carried out in the last watering season, some 80 square miles being supplied.

Other works in these Districts were confined to some small extensions of the channel system, and to the claying of main channels in sandy places.

An additional storage of 32,000 cubic yards was constructed to augment the water supply to the township of Birchip, and several minor extensions were made to water mains in other Urban Districts.

LONG LAKE AND TYNTYNDER DISTRICTS.

In these Districts, several short channel extensions, totalling 20 miles in length, were excavated and minor distributary channels were remodelled.

MORNINGTON PENINSULA DISTRICTS.

The new Eumemmerring Reservoir, situated some 3 miles north-east of Dandenong, was satisfactorily filled to 1,000 acre feet capacity. The construction, when funds permit, of an outlet channel from this reservoir, and the laying of the projected cross-country pipe line to Edithvale to join the existing reticulated supply to the bayside townships from Frankston to Aspendale, will, in addition to providing an ample supplementary supply to this area, make water available under pressure to the Dandenong-Keysborough District.

The schemes for the reticulated supply to the townships of Garfield, Bunyip, and Crib Point were completed and are working satisfactorily, while the existing reticulation systems of the various townships throughout the scheme were further extended in response to numerous applications.

The scheme for the improvement of Kanannook Creek, prepared and supervised by the Commission at the special request of the Frankston Shire Council, was further advanced. The 39 inch diameter centrifugal pumping plant, for pumping circulating water from Port Phillip Bay into the Creek at Seaford, proved entirely satisfactory when tested. During the summer months, pending the completion of the dredging of the Creek, small trial flows of sea water were pumped into the Creek at Seaford and were satisfactorily discharged at Frankston. This had the effect of cleansing and greatly improving the water in the Creek, especially at the Frankston end.

The dredging of the Kanannook Creek has progressed satisfactorily. The grab machine working on the barge loaned by the Public Works Department to the Frankston Shire Council has completed the work from the outlet to Beach-street, Frankston, from which point an ample waterway exists for $1\frac{1}{2}$ miles north towards Seaford.

The Commission's No. 9 dragline excavator, also loaned to the Council, has completed the work of enlarging the Creek from Carrum to a point half a mile south of the Seaford road, and it is anticipated the whole dredging work will be completed in ample time to permit a full flow of water being pumped down the Creek from Seaford to Frankston during the coming summer months.

BELLARINE PENINSULA WATER SUPPLY SCHEME.

Further progress was made during the year with this scheme. The Main Inlet Channel to the Wurdee Boluc Storage has been extended $6\frac{1}{2}$ miles, including 30 chains of 54 inch diameter steel and concrete pipe syphons, 12 chains of fluming, and 80 chains of concrete-lined channel, to tap the flow in the East Barwon River. An ample supply of water to the Wurdee Boluc Reservoir is now assured to meet the requirements of the City of Geelong and towns on the Bellarine Peninsula. A Main Storage Basin near Drysdale, for the Peninsula towns, having a holding capacity of 80 million gallons, has also been practically completed, and it is expected that the work for the reticulation of the township of Queenscliff and other important centres will be undertaken during the coming year.

The quantity of water supplied from this system to the Geelong Waterworks and Sewerage Trust during the past year was 310,000,000 gallons.

WONTHAGGI DISTRICT.

During the year the water in the main storage reservoir at Kongwak was chemically treated to prevent contamination by algal growths. The electrically driven chemical dry feeder installed at the Service Basin at Wonthaggi proved satisfactory and capable of maintaining a clear supply at all times. Extensions to the reticulation were carried out to supply several new houses within the District.

NORTHERN MALLEE WATER SUPPLY.

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

BORES.

The total number of successful bores in the Northern Mallee is 109.

TANKS.

There are in the Mallee areas 260 public earthen tanks of total storage capacity 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.

The twelve artificial catchments of sheet iron discharging into watertight covered storages, constructed in areas which cannot be economically served from the ordinary channel system, have acted satisfactorily during the year.

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 now 6,276 miles, 389 miles having been grubbed during the year mainly from Unemployment Relief Funds.

MILLEWA AND MILLEWA CENTRAL WATERWORKS DISTRICTS.

The seventh annual watering of the above Districts was carried out successfully; ample supplies being available in the River Murray at Lock No. 9, from which the water is drawn by pumping. These Districts yielded the best crops since the opening of the land for selection, many returns being as high as 30 bushels to the acre, thus giving an indication of what might be expected now that the early stages of settlement have been passed. Works carried out were confined to maintenance and extensions of existing channels.

The pipe reticulated supplies in the Urban Districts of Werrimull and Meringur were operated successfully during the year, and some small extensions of water mains were made.

DRAINAGE AND FLOOD PROTECTION SCHEMES.

KOOWEERUP AND CARDINIA.

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

In the Kooweerup District, the enlargement by dredger of the No. 6 Yallock Drain has been extended $1\frac{1}{2}$ miles easterly to Taplin's Road, whilst, in the Cardinia District, a dragline excavator completed the enlargement of Hagelthorn's Estate Internal Drain for $3\frac{1}{2}$ miles, and extended the enlargement to the Toomuc Catch Drain for 42 chains.

Maintenance work has embraced the removal of growth from some 50 miles of main drainage reserves, the cleaning out of 200 miles of subsidiary and minor drains, and the treatment of approximately 30 miles of existing drains and banks thereof for the destruction of noxious weeds and rabbits.

In the two Districts, about 90,000 cubic yards of earthwork were removed, mainly by mechanical means, and minor works, including timber bridges, fencing, pipe outlets, and repairs to existing structures, were also carried out.

Privately owned suction plants have continued operations, under an arrangement with the Commission, for the removal of coarse clean sand from the Kooweerup Main Canal. The total output of sand by these plants to date is 254,000 tons, for which a royalty of 3d. per ton has been paid to the Commission.

ECHUCA.

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

LOCH GARRY.

As the Goulburn River reached a very high level during the recent wet season, the works at Loch Garry were, for the first time since their construction some six years ago, called upon to withstand heavy flooding conditions. The levee bank acted very satisfactorily and served the purpose for which it was constructed, the value of the one year's crops protected from flooding being greater than the original cost of the scheme.

KANYAPELLA.

The continuous Autumn rains made it necessary to raise the levee banks protecting this District, and, although the Goulburn River reached a very high level, the flood waters were held at a depth of 2 feet less than would otherwise have been the case, and about 2,000 acres of land were thereby saved from flooding.

CARRUM.

The heavy flood waters from the Berwick and Gembrook catchments, following the heavy rains that occurred in March last, were satisfactorily discharged into the sea at Carrum by means of the new enlarged Eumemmerring Creek. Prior to the construction of this work these waters gained access during flood periods to the Carrum protected area and by overflowing at McDonald's embankment caused considerable damage to a large portion of the intensely cultivated and dairy farming areas.

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 the proposals were reasonable, permission under the *Water Act* 1928 was granted for the carrying out of certain works at the cost of the applicants.

In accordance with the provisions of the *Country Roads Board Fund Act* 1930, fees received in respect of water frontages have, since December, 1930, been paid into an account, kept in the Treasury, called the "Rivers and Streams Fund." Money credited to this Fund is to be applied, on the recommendation of the Honorable the Commissioner of Public Works after consultation with the State Rivers and Water Supply Commission, for or towards the removal of obstructions in rivers and streams and the prevention of erosion of the banks thereof. A number of applications for grants from the Fund to carry out river protection works were received, and, where proposals were deemed reasonable, recommendations were made that a proportion of the cost of such works be met from the Fund.

RIVER GAUGING.

As provided by section 32 of the *Water Act* 1928, the work of gauging and recording the flows of the principal rivers and streams of the State has been 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 River Murray at the site of Lock No. 15, Euston. This station was established in lieu of the station at Lock No. 11, Mildura, which it was found necessary to abandon owing to the readings of the tail gauge being affected by the backwater from Lock No. 10, Wentworth, when the weir at the latter place is in operation. The number of gauging stations in the State is 67.

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.

Consequent on repeated heavy falls of rain, abundance of natural fodders, and other conditions minimizing the extensive use of water for irrigation, the demand during the year for authority to divert was below that received in recent years.

Authorized diversions now in force are :—

Yearly permits	..	..	..	..	1,658
Flood permit ..	..	..	..	..	1
Licences	..	..	..	..	13
					<u>1,672</u>

GOULBURN HEADWORKS AND MAIN CHANNELS.

These works comprise the Goulburn Weir; the Goulburn-Waranga Channel, extending from the Weir to Waranga Reservoir, a distance of $23\frac{1}{2}$ miles; the Waranga Reservoir; the Waranga-Rodney Channel, a distance of $4\frac{1}{2}$ miles; the Main Channel, extending westerly from the Waranga Reservoir to the Loddon River, a distance of 98 miles; the Waranga Western Main Channel Extension, extending north-westerly from the Loddon River a distance of 36 miles (for irrigation) and a further distance of 94 miles to Kurdgweechee to supplement the supply from the headworks of the Wimmera-Mallee Gravitation System for domestic and stock purposes, making a total distance of 130 miles from the Loddon River, or 228 miles from the Waranga Reservoir; the Leaghur-Normanville Main Channel, extending from a point 36 miles on the Waranga Western Main Channel Extension northerly for a distance of 6 miles; the Tandarra-Calivil Main Channel,

extending from 64 miles 69 chains on the Waranga Western Main Channel north-westerly to Tragowel Plains No. 1 Main Channel, a distance of 26 miles. On the Eastern side the Main Eastern Channel now extends from the Goulburn Weir to the Katandra Area, a distance of 53 miles. The total length of main channels is therefore 341 miles. The Irrigation Districts supplied are South Shepparton, Shepparton, North Shepparton, Katandra, Rodney, Deakin, Tongala, Stanhope, Rochester, Echuca North, Dingee, Calivil, Tragowel Plains, and Boort.

The construction of No. 2 Tunnel in connexion with the new auxiliary channel from the Goulburn Weir to Waranga Reservoir was commenced at the beginning of the year. Eight shafts have been sunk and 8,000 cubic yards of material excavated from tunnel drives, equal to about 20 per cent. of the total amount involved in this Tunnel.

The Eastern Goulburn Main Channel Extension has been further extended a distance of 1 mile to the western boundary of the parish of Youanmite. It is proposed to make a further extension to this Channel and to construct a branch channel to the Broken Creek.

One dragline excavator and a bucket dredge have been employed on the enlargement of the Eastern Goulburn Main Channel, and the work has been completed for a total length of 26 miles; 3 miles, involving the excavation of 90,000 cubic yards of material, have been completed during the year. Five and a half miles of enlargement remain to be done, and it is proposed from time to time to continue this work to completion. The beaching of a strip of the side slopes of the deep sections of channel as enlarged from the Goulburn Storage to a point 5 miles therefrom has been carried out. The work of duplicating the original 10 feet diameter reinforced concrete syphon under Honeysuckle Creek (25 miles 10 chains) has been completed. The duplicate 12 feet diameter syphon at 19 miles 56 chains has also been partly done.

To prevent serious erosion during high flood stages an embankment has been built across the old Eastern Branch Channel at the Goulburn Weir. All gates at the No. 2 Regulator, Goulburn Waranga Channel, and those at the Offtake Regulator requiring immediate attention have been provided with new diaphragms.

Four dragline excavators have been employed during the year upon the enlargement of the Waranga Western Main Channel, and the Channel has now been enlarged to full cross section for a total distance of 3 miles and the capacity considerably increased for an additional $20\frac{3}{4}$ miles; $5\frac{1}{4}$ miles involving 295,000 cubic yards excavation having been completed during the year. It is proposed to concentrate on the work of enlarging this Channel to about 18 miles of the section from Waranga Reservoir to Rochester, as this portion is really the governing factor of the whole supply.

The low concrete retaining walls on the Waranga Western Main Channel on the east side of Cornella Creek at Colbinabbin have been converted into flood regulators, while the first 2 miles of the Terricks Main Channel No. 1, which takes off from the Tandarra-Calivil Channel near Dingee, have been excavated.

On the Leaghur-Normanville Channel earthworks and structures have been completed to 6 miles.

NEW STORAGES.

EILDON RESERVOIR.

The carrying out of the recommendations of the Inquiry Board, referred to in a previous Report, was continued, and regular daily observations throughout the year have shown the results to be entirely satisfactory. The work of placing additional rockfill in the bank was brought to a stage at which it could be temporarily suspended, leaving the balance of material to be placed and slopes dressed to profile, as and when required. The drainage system along the base of the corewall was completed to its outfall into the river, and, in connexion with this system, three additional concrete lined inspection shafts are being built against the downstream side of the corewall. Alterations to the outlet works have been commenced. The needle and control valves were delivered at the works and the steel pressure pipes are in course of manufacture. The work of preparing for placing the pipes and valves is in progress. The storage is now holding 200,000 acre feet of water and all the work has proved satisfactory.

PYKES CREEK RESERVOIR ENLARGEMENT.

The whole of the work in connexion with the raising of the dam to R.L. 1,316 feet was completed, and the reservoir was filled to its increased full capacity of 21,000 acre feet, being an increase of capacity of some 6,150 acre feet.

EPPALOCK RESERVOIR.

Preliminary works in connexion with the construction of this storage on the Campaspe River, reference to which was made in the last Report, have been put in hand. The foundations in the bed of the river were prepared, stone for concrete was quarried and crushed, and sand was obtained from the Wild Duck Creek nearby.

This work was almost entirely carried on during the year from funds provided under the *Unemployment Relief Acts 1930*.

TOTAL STORAGES IN STATE.

In 1902 the total capacity of storages in the State was 172,000 acre feet. The present capacity is 1,301,520 acre feet, and when the Wimmera Storages, Glenmaggie, Drysdale, and Eumemmerring Reservoirs are completed, the total capacity will be about 1,387,250 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)	..	..	..	..	..	..	..	77,500
Kow Swamp	..	..	..	..	..	..	..	40,860
Laanecoorie	..	..	..	..	..	..	..	14,000
Kerang North-West Lakes	..	..	..	..	..	..	..	92,000
Lake Boga	..	..	..	..	..	..	..	28,000
Long Lake	..	..	..	..	..	..	..	3,820
								256,180
<i>Wimmera-Mallee System—</i>								
Lake Lonsdale (Enlargement to 53,290 acre feet in progress)	..	..	..	..	..	..	..	45,480
Wartook	..	..	..	..	..	..	..	23,800
Fyans Lake	..	..	..	..	..	..	..	17,100
Taylors Lake	..	..	..	..	..	..	..	30,000
Pine Lake (part of 62,000 acre feet)	..	..	..	..	..	..	..	52,000
Lower Wimmera Weirs	..	..	..	..	..	..	..	2,870
Batyo Catyo (Avon Regulator)	..	..	..	..	..	..	..	5,000
Lake Whitton	..	..	..	..	..	..	..	1,300
Earthen Storages, Township Reservoirs, and Mallee Tanks	..	..	..	..	..	..	..	5,710
								183,260
<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	..	..	..	..	..	..	..	4,930
								44,930
<i>Werribee—</i>								
Pykes Creek	..	..	..	..	..	..	..	21,000
Melton	..	..	..	..	..	..	..	17,000
								38,000
<i>Bellarine Peninsula System—</i>								
Wurdee Boluc	..	..	..	..	..	..	..	10,000
Service Basins	..	..	..	..	..	..	..	260
								10,260
<i>Mornington Peninsula System—</i>								
Beaconsfield, Frankston, and Mornington Reservoirs	..	..	..	..	..	..	..	1,560
Service Basins	..	..	..	..	..	..	..	180
Eumemmerring Reservoir (part of 3,100 acre feet)	..	..	..	..	..	..	..	1,000
								2,740
<i>Miscellaneous—</i>								
Wonthaggi	..	..	..	..	..	..	..	1,550
Total capacity of existing Storages	..	..	..	..	..	..	..	1,301,520

ADDITIONAL STORAGE BEING PROVIDED BY WORKS IN COURSE OF CONSTRUCTION.

<i>Wimmera-Mallee System—</i>								
Lake Lonsdale Enlargement	..	..	..	..	..	..	..	7,810
Pine Lake (balance of 62,000 acre feet)	..	..	..	..	..	..	..	10,000
Green Lake	..	..	..	..	..	..	..	20,000
								37,810
<i>Maffra-Sale System—</i>								
Glenmaggie Reservoir (balance of 150,000 acre feet)	..	..	..	..	..	..	..	45,500
<i>Bellarine Peninsula System—</i>								
Drysdale Service Basin	..	..	..	..	..	..	..	320
<i>Mornington Peninsula System—</i>								
Eumemmerring Reservoir (first stage) (balance of 3,100 acre feet)	..	..	..	..	..	..	..	2,100
<i>Murray System—</i>								
Hume Reservoir, at junction with Mitta River, half-share of balance of 2,000,000 acre feet	..	..	..	..	..	..	..	922,500
Total capacity of Storages when works in hand are completed	..	..	..	..	..	..	..	2,309,750

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 stated in the last Annual Report, a conference of Ministers representing the four Contracting Governments decided that the River Murray Commission should inquire into and report on the questions of the extension of the Hume Reservoir to a capacity of 2,000,000 acre feet, the protection of the lower Murray against salinity, works on the River Murrumbidgee, and responsibility for expenditure in connexion with the maintenance, operation and control of completed works and gauging stations. This report was considered by Ministers representing the four Contracting Governments at a conference held on the 4th February, 1931.

This conference decided that only such works at the Hume Reservoir as were necessary for storage of 1,250,000 acre feet of water be carried forward continuously to completion, and that the question of extension beyond the 1,250,000 acre feet storage for either irrigation or hydro-electric purposes be further considered on a date to be mutually agreed upon by a majority of the Contracting Parties.

A revised estimate of cost for the construction of the Hume Reservoir to a capacity of 1,250,000 acre feet was submitted by the Constructing Authorities for New South Wales and Victoria, and was approved by the River Murray Commission subject to adjustment in the event of shortage of funds causing a slowing up of construction with resulting increase in costs.

The Regulations governing Weir-Lock No. 10 at Wentworth constructed by the New South Wales Authority were gazetted and the lock was operated 175 times during the year.

The Constructing Authority for South Australia proceeded with the work of stone paving the outer slope of Bank No. 1 of the Lake Victoria Storage, and made steady progress with the construction of Weir-Lock No. 7 until the height of the river interfered with operations. The plant and buildings at the completed Weir-Lock No. 6 were dismantled and transported to the new Weir-Lock No. 8 which is being constructed at 454.9 miles, River Murray Chainage, the site having been approved by the River Murray Commission. Locks Nos. 1, 2, 3, 4, 5, and 9 have also been completed by this Constructing Authority.

The State Rivers and Water Supply Commission, the Constructing Authority for Victoria, has already completed the Weir-Locks at Torrumbarry and Mildura.

HUME RESERVOIR.

During the year the New South Wales Constructing Authority has been constructing the Hume Reservoir within its territory. The main work carried out in this section has been the concreting of the main wall, wing walls, and outlet section, the spillway being at R.L. 558. The deviation of the main Sydney Road between Albury and Bowna was continued. The amount of water stored during the year reached 155,000 acre feet.

In Victoria, the construction of the main embankment was continued by the Water Commission. The height of the embankment extending from the Victorian bank of the river for about 3,900 feet was brought to approximately 87 feet above the flats. Work carried out during the year involved the placing of 370,000 cubic yards of earthwork in the embankment; 5,200 cubic yards of concrete and 74 tons of steel reinforcement in the corewall and cut-off wall; 25,100 square yards of concrete paving on the upstream face; 1,665 cubic yards of gravel on the downstream face; and 11,900 concrete drainage slabs behind the concrete corewall.

The Railway deviations between Wodonga and Tallangatta, being carried out for the Water Commission by the Victorian Railways Department, have progressed satisfactorily; practically all formation work, bridges, fencing and culverts were completed, and a start was made on the laying of the railway track, while the Victorian Country Roads Board have, at the request of the Commission, constructed the Murray Valley Road between Bethanga Bridge and Talgarno and the greater portion of the Omeo Highway between Ebdon and Bolga.

Investigations were carried on in regard to the supply of water for the irrigation of lands along the Murray Valley from the Hume Reservoir to Picola, about 120 miles westward. In connexion with the proposed diversion weir near Yarrawonga mentioned in last Report, investigatory work by boring and survey has proceeded during the year, and plans for a weir are now being prepared by the State Rivers and Water Supply Commission acting in co-operation with the Water Conservation and Irrigation Commission, New South Wales.

WEIRS AND LOCKS, TORRUMBARRY AND MILDURA.

These works were satisfactorily operated during the year, again proving very beneficial in connexion with the water supply to the important Irrigation Districts along the River Murray.

WORKS CONTROLLED BY OTHER AUTHORITIES.

(Under General Supervision of the Commission.)

SEWERAGE IN COUNTRY DISTRICTS.

The Ballarat Sewerage Authority having completed the sewerage of the City, is now constructing the reticulation of the suburban areas, and has also extended its treatment works during the year.

The Bendigo Sewerage Authority having almost completed the reticulation of its Sewerage District, is now engaged on the last section of the White Hills area. The remodelling of the treatment works has also been completed.

The Echuca Sewerage Authority finished its works, and over 400 houses are now connected to the sewers. Minor extensions to the Colac reticulation were carried out to provide for sewerage additional houses.

The Mildura Sewerage Authority practically completed the construction of sewers and treatment works, and already some 300 house connexions have been installed.

The Swan Hill Sewerage Authority has deferred the construction of works pending suitable arrangements being made for financing its operations, while the Horsham Sewerage Authority is also deferring, temporarily, the construction of works for similar reasons.

The Warrnambool Sewerage Authority has completed the preparation of plans for the sewerage of the first section of the City, and is now awaiting suitable financial conditions before commencing construction.

Applications for the constitution of Sewerage Authorities at Dandenong, Kerang, Kyneton, Lorne, Shepparton, and Wangaratta are under consideration, while other country centres contemplating the installation of sewerage schemes are Bairnsdale and Mornington.

COUNTRY WATER SUPPLIES.

Many important works were carried out by Waterworks Trusts and Local Governing Bodies, of which there are now 112 and 18 respectively.

The Ararat Borough Council carried out the enlargement of the main pipe outlet from the Oliver's Gully Reservoir; the Ballan Waterworks Trust renewed practically the whole of its reticulation pipes which were so corroded as to considerably impair the town water supply; and the Bet Bet Shire Council constructed additional catchment drains to augment the inflow to the Tarnagulla Reservoir.

The Echuca Waterworks Trust carried out extensive renewals and improvements to the reticulation to ensure an adequate supply to all consumers.

The Gisborne Waterworks Trust constructed a new high level service tank and laid new mains to improve the supply to the high levels of the town.

The Hamilton Waterworks Trust, following the construction of a new storage reservoir, carried out extensive improvements to the reticulation, and the Inglewood Borough Council, Local Governing Body, repaired its storage reservoir and catch drain following damage by abnormal rains.

The Keilor-St. Albans Waterworks Trust was constituted. The supply of water is to be obtained in bulk from the Melbourne and Metropolitan Board of Works.

The Kyneton Waterworks Trust has completed the construction of an additional storage reservoir of 30 million gallons capacity to safeguard the supply to the town in dry periods. The Portland Waterworks Trust is engaged in the laying of the town reticulation, and a supply will be available to the major portion of this seaport before next summer.

The Ripon Shire Council, which controls the water supply at Beaufort, completed the construction of a main pipe line from Mt. Cole to supersede the old water race which was inadequate and costly to maintain.

To improve the quality of its water supply, the Shepparton Waterworks Trust completed the construction of purification works consisting of a filtration and chlorination plant, and enlarged and remodelled its pumping equipment to provide an increased supply.

The Upper Macedon Waterworks Trust constructed a new storage reservoir on the Turritable Creek to safeguard the town supply during the summer months, while the Warrnambool City Council carried out important improvements to the reticulation supplying the high levels of the City.

Pipe extensions and minor works were carried out at Avenel, Carisbrook, Cobram, Donald, Elmore, Healesville, Horsham, Kaniva, Kilmore, Leongatha, Mooroopna, Murtoa, Nhill, Sunbury, Swan Hill, Tatura, Trafalgar, Traralgon, Wangaratta, Warracknabeal, Yarrawonga, and Yea.

Proposed water supply schemes for Foster, Millgrove, Moe, Myrtleford, Tallarook, and Tallygaroopna were investigated; while proposed improvements in connexion with the existing schemes in Broadford, Glenrowan, Gisborne, Merrigum, and Malmesbury were also examined.

GENERAL.

LANDS UNDER CLOSER SETTLEMENT IN IRRIGATION DISTRICTS.

During the year the Commission received 198 applications for 37 irrigable Closer Settlement holdings which had from time to time become available throughout the Irrigation Settlements under the control of the Commission. The large number of applications lodged for the limited number of blocks available serves to indicate that a considerable demand is still being maintained for areas with an assured water supply. This fact is particularly well illustrated in the Districts which are devoted chiefly to the production of dried fruits, a large number of applications having been received for the few available blocks.

The Commission has continued its policy of enabling established settlers, where practicable, to enlarge their farms by the addition thereto of portions of allotments which, through various causes, have been relinquished by their occupiers. Under this arrangement 34 lessees took advantage of the opportunity to obtain additional areas.

The number of lessees whose applications to transfer were approved during the year was 77, of whom 57 held blocks under ordinary Closer Settlement conditions and 20 under the provisions of the Discharged Soldier Settlement Acts. Practically all the transfers were made with advantage to the previous occupiers, from a financial point of view. Rather than dispose of their interests in their blocks altogether, however, some lessees, who have for the most part been successful, decided to sublet their farms, and 32 applications for this purpose were approved by the Commission.

It is gratifying to note that financial aid, when required by lessees on irrigable holdings, can now be readily obtained from private sources. No fewer than 48 applications were granted for the registration of mortgages on Closer Settlement blocks within Irrigation Districts.

The total area of irrigable lands purchased and subdivided by the State, and the extent of settlement in each District, is shown in the following statement. The subdivided portions of the estates are supporting about seventeen times as many families as resided thereon prior to their subdivision for Closer Settlement.

Closer Settlement Estates.	Area of Lands purchased by the State in Acres.	Properties Subdivided.					Number of Closer Settlement Blocks now occupied.	Present Increase in Number of Families.
		Area in Acres.	Number.	Number of Families thereon when Purchased.	Subdivided into—			
					Number of Closer Settlement Blocks.	Average Area in Acres.		
Shepparton	14,170	14,170	33	29	375	35	354	325
East Goulburn	13,400	13,400	21	20	162	74	156	136
Rodney	3,230	3,230	8	5	54	58	42	37
Stanhope	21,500	21,500	7	13	272	68	249	236
Kyabram	4,600	4,600	10	12	68	63	67	55
Tongala	19,090	19,090	41	36	305	61	286	250
Koyuga	4,200	4,200	} Pt. 1	..	54	73	52	52
Cornelia Creek	2,500	2,500			19	161	18	18
Nanneella	9,040	9,040	18	8	124	70	116	108
Echuca	3,600	3,600	8	4	30	105	30	26
Bamawm	13,400	13,400	28	21	191	65	189	168
Dingee	500	500	3	1	20	23	14	13
Calivil	4,800	3,860	8	6	26	149	26	20
Conuna	12,000	12,000	29	10	142	80	118	108
Koondrook	9,060	9,060	14	10	124	67	102	92
Swan Hill	12,500	12,500	34	16	324	36	322	306
Nyah	3,800	3,800	8	1	234	15	230	229
Merbein (Crown)	8,300	8,300	..	..	417	20	415	415
Red Cliffs	33,000	18,000	1	3	680	17	665	662
Bacchus Marsh	70	70	1	..	2	36	2	2
Werribee	10,000	10,000	1	11	227	36	220	209
Hallam	3,300	1,860	7	4	93	20	76	72
Maffra-Sale	10,570	8,970	23	22	175	48	172	150
Properties acquired under Sec. 20, <i>Closer Settlement Act</i> 1928, outside above Estates	216,630	197,650	304	232	4,118	43	3,921	3,689
	19,540	..	..	..	..	..	201	..
	236,170							

PROGRESS OF IRRIGATED CLOSER SETTLED DISTRICTS.

The Irrigated Closer Settlement Areas, in which are grown crops that cover practically all classes of rural production, have continued to progress steadily during the past year, despite the fact that generally prices now obtaining for the commodities produced are substantially lower than twelve months ago. This progress has been achieved mainly by the greater production per acre brought about by irrigation, and also by the produce generally being of a much higher grade than that of other districts. A significant illustration of this is that the first prize at the Royal Agricultural Show for such a typical dry farm product as wheat was this year won by an entry from the Rodney Irrigation District, where a timely irrigation gave that finish to the crop which enabled it to win the prize.

In addition to the better known irrigated crops, tobacco growing has made very rapid strides during the past two years, and some of the leaf grown under irrigation this year was considered equal to that grown anywhere else in the State. Many settlers in the Irrigation Districts have been attracted by this line of production, and it is safe to say that the area which will be planted in the Goulburn Valley Irrigation Districts this coming season will run into hundreds of acres. In addition, excellent returns are being made by many settlers from the raising of tobacco seedlings for sale to growers in less favoured districts.

Following on the exceptionally large crops in the Dried Grape Districts in 1929 and 1930, the yield this year, as is usual with this class of fruit after years of heavy bearing, was much lighter, being 31,000 tons as against 48,000 and 47,500 tons respectively for the two previous years. The prices obtained to date, however, together with the "exchange" benefit, have much more than compensated for the reduction in yield, and the actual cash returns to the growers should greatly exceed those of the two previous years. Of the 31,000 tons of dried fruits produced this year in Victoria, Red Cliffs again headed the list with a total yield of over 11,000 tons, being an average of $1\frac{1}{2}$ tons per producing acre of vines, while Merbein produced 7,363 tons, and Nyah and Woorinen 2,825 tons; the remainder being from the Mildura and Irymple areas. The appointment of the Trade Commissioner in Canada and the new Trade Treaty made with that Country have certainly proved very beneficial, the quantity of dried fruit exported to Canada during the past year exceeding 9,000 tons compared with 776 tons exported five years ago.

In connexion with the Dried Fruits Industry, representatives of the Commission attended the Conference convened by the Prime Minister for the purpose of considering means of stabilizing the whole industry. At this Conference, reports of various committees previously appointed to investigate certain phases of the industry were fully considered. These reports dealt with such matters as elimination of surplus packing sheds, savings in purchase of artificial fertilizers and spraying materials, uniform dips, co-operation of Dried Fruits Boards and the problem of unprofitable vineyards, and in practically all cases the recommendations of the various committees were approved by the Conference; these recommendations have since been adopted by many growers with considerable benefit to themselves. In dealing with the important problem of unprofitable acreages it was agreed that the Development Branch of the Prime Minister's Department conduct further inquiries into the subject with a view to securing, if practicable, more definite information on the various remedies suggested.

As was anticipated after the record production of canned fruit in 1930, when no less than 42,000,000 cans of apricots, peaches, and pears were packed in Australia, there was a considerable drop this year; but of the total pack of 21,000,000 cans, no less than 75 per cent. of the Victorian portion, 14,000,000 tins, was processed by the co-operative canneries established in the Irrigation Areas. The market that has been obtained in Canada for this product has been more than held, and at present inquiries are being made by leading business men from Java and the East with a view to making arrangements for regular supplies.

The production of citrus in the Irrigation Areas this year has been satisfactory, and very large crops are being harvested. A favorable aspect of this industry is the increase in the shipments to Canada, where it is believed that, on the development of this market, remunerative prices should be obtained. A recent report received from Vancouver states that a shipment from Murrumbidgee Irrigation Area was the best that has ever been imported into Canada, excelling those from California and other citrus producing countries, and as previously stated there are undoubted possibilities of establishing a satisfactory outlet for the citrus growers.

In other Districts dairying continues to be the main source of production, and the Irrigation Areas are continuing to prove most suitable for this industry. As in previous years, dairy herds from Irrigation Districts were again well placed in the Standard Herd Test for pedigreed stock. Places gained by herds owned by irrigation settlers were first, third, and fourth, and of the 27 herds all over the State that exceeded on test an average of 450 lb. of butter fat per cow, no less than 9 were from the Irrigation Districts. In the individual tests, a cow from the Irrigation

Districts again filled top place with a yield of 729.37 lb. of butter fat for the period of test. In the various other classes, cows from the Irrigation Areas filled top places; in the mature cow section, the first six places were obtained, and of 66 cows that yielded over 500 lb. of butter fat no less than 23 were from Irrigation Areas.

The District Herd Testing Associations which have made rapid strides in the Irrigation Areas illustrate the high position that dairying has attained under irrigation. From records already to hand, it would appear that the first places for the State will be filled by the Maffra No. 1 Unit with the remarkable yield of 314 lb. of butter fat per cow, the Tongala No. 1 Unit with an average of 311 lb. of butter fat per cow, and the Swan Hill Unit with an average of 301 lb. of butter fat per cow.

How the system of District Herd Testing has benefited the Dairying Industry and the settler can best be illustrated by noting the increased production of the herds under test. In the Tongala Irrigation District the increase in the average yield since the inception of the Herd Testing Association six years ago is 103 lb. of butter fat per cow. In the Rochester Irrigation District the increase this year over last was 34.3 lb. of butter fat per cow in 57 herds, and in the Swan Hill Irrigation District the average increase was 30 lb. of butter fat per cow. These increases are typical of what is taking place in other Irrigation Areas, and, in addition to the breeding of better stock and the weeding out of the inferior, can be largely attributed to the luxuriant growth of permanent pastures and lucerne obtainable throughout most of the year by the use of irrigation water together with regular fertilizing with manures.

The River Murray Advisory Committee, of which the Chairman of the Water Commission is a State representative, continued its investigations into the various forms of horticulture and irrigation farming pursued in the Murray Basin, and published its survey of the dairy farms in the Goulburn Valley of the State of Victoria and the Reclaimed Swamp Area of South Australia, and of the Citrus Industry under irrigation in South Australia, Victoria, and New South Wales. In its report on the Goulburn Valley Survey, one of the most interesting findings is that an area from 50 to 70 acres, carrying 25 to 30 cows, returns the highest net income after paying all expenses, including interest on invested capital. This confirmed the policy of the Commission, which has maintained that the area most suitable for dairying under intense culture with irrigation was in the region of 60 acres of suitable land.

The Shepparton Irrigation District has again proved very conclusively that it can excel in other lines of rural production than canning fruit, as, in the Royal Agricultural Show this year, for the second time in succession, the Shepparton Butter Factory was awarded not only the first prize for the best box of export butter, but also the championship for the butter entry of the Show. This following on the success gained last year is most satisfactory, especially as the majority of the suppliers to the factory are overseas and closer settlers under the administration of this Commission.

The popularity of the Farm, Lucerne, and Pasture Competitions, which were first instituted in the Cohuna District in 1927, was again much in evidence last year. Competitions were held at Tongala, Stanhope, Werribee, Rochester, Shepparton, Pyramid Hill, and Katandra, and the total number of entries exceeded 150, being fully 50 per cent. more than last year.

The Irrigation and Research Committee, comprised of representatives of the Department of Agriculture and the Commission, continued its manurial and other experiments in irrigated culture. New plots were established during the year in the Tragowel Plains Irrigation District, and those already established are proving of the greatest value in determining the best treatment for the various crops and types of soil under irrigation.

While all the Irrigation Districts are making progress, a review of the Katandra Settlement which is still comparatively young, indicates that a stage has now been reached when good returns can be expected. During the past year the area under lucerne and pastures was increased by nearly 800 acres, and the total area now under these permanent fodder crops is 5,300 acres; being about 4,150 acres of lucerne and 1,150 acres of pasture. Over 18,000 chains of fencing have been erected, 17,000 chains of internal distributory channelling constructed, and 5,500 acres of land have been graded. Dairying is the main line of activity, and a definite attempt is being made to improve the quality of the stock by means of pure bred bulls.

The Boards appointed to inquire into the "Home Maintenance" principle for soldier settlers in Irrigation Districts are nearing the end of their inquiries; already their findings for the dried vine fruit and dairying areas have been issued.

During the year the Royal Commission appointed to inquire into the position of overseas settlers commenced its investigations, and has already inspected the Hallam Valley, Sale, Tongala, Katandra, and Murrabit Districts.

ADMINISTRATION.

EXTENSIONS AND EXCISIONS.

Extensions of the Goulburn and Maffra-Sale Irrigation Channel Systems during the past year enabled the Commission to increase the areas of the Irrigation Districts dependent on these Systems by including lands commanded by gravitation from these new works. In the East Goulburn Area the North Shepparton Irrigation District was further extended to include 3,900 acres of lands, near Nathalia, which were excised from the Waterworks District of the Shire of Numurkah Waterworks Trust, while the Sale Irrigation District was extended by the addition of an area of 1,900 acres not previously within any constituted District.

In the Wimmera-Mallee Gravitation Channel System for domestic and stock supplies, the construction of additional channels in the Northern Mallee area previously dependent on tanks was followed by important adjustments of Districts. The area of the Walpeup West Waterworks District was reduced by the excision of 110 square miles, which area, together with 18 square miles excised from Tyrrell District, was formed into a separate District under the name of Walpeup Central Waterworks District.

The Tyrrell Waterworks District was extended by the inclusion of a further area of 20 square miles also excised from Walpeup West District.

The Karkarooc Waterworks District was extended by the addition of 5,300 acres, the Tyntynder District by 2,000 acres, and the Long Lake District by 640 acres of land not hitherto within any constituted District.

Adjustments of the boundaries of the recently constituted Hindmarsh Waterworks District resulted in an increase in area of 1,800 acres previously in the Lowan Shire Waterworks Trust District, thus making the total of this new District 62 square miles.

An area of 20 square miles of lands of inferior quality and without a water supply was excised from the Western Wimmera Waterworks District; minor extensions were made of the Wimmera United, Millewa, Millewa Central, and Eureka Waterworks Districts, and the Avoca Water Trust District, while corresponding excisions were made from the Kara Kara Waterworks Trust District, and the Millewa Central, Millewa, Tyrrell and Long Lake Waterworks Districts respectively.

NEW AND PROPOSED DISTRICTS.

Following the channel extensions mentioned above and the installation of pumping works, areas excised from Walpeup West and Tyrrell Districts were as previously stated constituted the Walpeup Central Waterworks District, with an area of 128 square miles.

STAFF.

In view of the contraction of Commission's operations owing to the financial stringency and the special need for the utmost economy the Commission has not filled vacancies on the Staff occurring by retirements; in addition, a general investigation was made at every centre into all branches of the Commission's Service, and economies were effected which, in conjunction with the statutory percentage reductions in salaries, will result in the substantial saving in Vote expenditure of no less than £40,000 per annum. The number of employees on the Staff, which in 1928-29 was 485, is now reduced to 418.

The Commission records with deep regret the deaths of three of its valued and respected officers in Messrs. A. C. White, J. H. Fleming, and W. G. Smalley.

Mr. A. S. Kenyon, one of the Commission's Engineers, was appointed to fill a vacancy that occurred on the Sludge Abatement Board operating under the *Mines Act* 1928.

Mr. C. P. F. Wright, Engineer, has been appointed Supervising Engineer for the Maffra-Sale Districts in addition to his present duties.

Mr. L. J. Scott, Assistant Engineer, was transferred from the Eildon Reservoir Works to Maffra Centre, and Mr. A. G. Grantley, Works Supervisor, Bellarine Peninsula Scheme, was transferred to a similar position in the Kooweerup and Cardinia Districts.

Mr. L. R. Jenkin was transferred from Red Cliffs to fill the position of District Secretary at Merbein rendered vacant by the death of Mr. Smalley.

Mr. J. T. Doolan, Closer Settlement Supervisor at Tongala, has been transferred to a like position at Narre Warren.

The following officers retired during the year:—Messrs. G. Hauser, A. Barradell, J. Gumley, C. G. Macan, J. Capper, R. B. Kerr, A. E. Skilbeck, G. Green, D. H. Hall, J. McKenna, J. Kemp, A. C. Gladman, and J. G. Griffiths.

FIRE INSURANCE.

The Commission has continued its policy of carrying the fire risk on its own buildings. The premiums thus saved now amount to £9,160.

RECEIPTS, DISBURSEMENTS, AND ESTIMATES.

The financial stringency and the unprofitable prices for practically all primary products, including wool, sheep, and cereals, seriously affected the collections for 1930-31, which were considerably below the estimate. The total receipts amounted to £441,530, which is some £150,000 less than could have been reasonably estimated under more normal conditions; for example, in the North-west Mallee a system of sustenance payments to settlers had to be introduced, and thus a very large sum for water rates necessarily remained uncollected. The operations for the past year have therefore resulted in a large addition to the amounts owing to the Commission, but much of this indebtedness will be recoverable as soon as the prices of primary produce again give a payable return.

The expenditure under the annual vote amounted to £248,538 as against £265,977 expended in 1929-30, thus showing a saving of £17,439, notwithstanding that during the past year the cost of removing sand drift from Channel Systems in the Waterworks Districts was again very heavy. It is to be pointed out that, while considerable savings are being made in the annual votes, the Commission is obliged to incur the operating costs in making the usual water deliveries to landholders, although in many cases farmers and settlers are not at present in a position to meet the annual charges due to the Commission. The Loan expenditure amounted to £649,705 as against £1,141,553 for last year. The Loan expenditure was incurred in Districts practically covering all parts of the State, and a detailed Statement is given in another part of the Report.

The receipts from the Irrigation Districts amounted to £235,061, a decrease of £56,993 on those of the previous year. As previously pointed out, this result is attributable to the financial stringency and to the unremunerative returns from primary produce. These conditions prevailed in practically all Districts with the exception of those engaged in the Dried Fruit Industry, and many settlers were consequently not in a position to discharge their liabilities. Under more favorable circumstances the revenue from this source should have shown a substantial increase over that for 1929-30. After debiting the Districts with working expenses and interest chargeable, the deficit for the year was £72,504, but this should be materially reduced as soon as primary products regain normal prices. Full particulars are set out elsewhere in this respect as to the position of each District.

In the Coliban District the receipts were £42,523, a decrease of £5,347 as against those for 1929-30, the reduction being mainly due to falling off in the revenue received from channel supplies owing to seasonal conditions. The loss in this District for the past year was £37,057, and, as previously pointed out, the rating in these districts is specially limited by the Water Act, and any substantial improvement in the revenue can only be achieved by a general development throughout the whole District.

In the Waterworks Districts exclusive of the Coliban System, the collections amounted to £133,154 as against a return of £154,880 for the previous year. In addition to the shortage of revenue, the expenditure in removing sand drift from the channels was much heavier than for 1929-30, and, owing to this, combined with the inability of the settlers, particularly in the Mallee, to meet their water charges, the deficiency amounted to £80,385. The areas in many of these Districts consist of Crown Lands in process of alienation, and most of these settlers are under lien to the Crown. The proceeds of the harvest were apportioned to the creditors in order of preference approved by the Government, and although the wheat yields were large, the prices obtained were so low that the returns were insufficient in very many cases to meet current charges. There are now 108 Waterworks Districts inclusive of town supplies, and full particulars as to the financial position of each District are set out in another portion of the Report.

In the five Flood Protection Districts controlled by the Commission under the provisions of the Water Act, the receipts were, owing principally to low prices for products, £4,568 as against £7,042 for 1929-30, but in these Districts the Commission was able to effect substantial savings in the expenditure on maintenance and by this means the deficit for the year was limited to £2,703.

The disbursements for the next financial year are estimated at £210,470 as against an estimate of £252,100 for 1930-31. On the other hand the receipts are estimated at £520,000, which is no less than £78,470 in advance of the cash received in 1930-31.

The Loan Liability of the State for Works for Water Supply at the close of the year was £24,040,081. Of this total £1,256,716 is for Free Headworks; £1,263,228 was Written Off; £147,046 was advanced to some early-formed Local Authorities; £2,209,422 is represented by River Murray Works; and £6,344,924 by Uncompleted or Unallotted Works which are not revenue producing, details of which are set out separately in the Statement of Loan Liability in this Report. The balance of £12,818,745 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 £1,142,608. Of this amount £126,758 is not chargeable to any Districts, being debitable against Free Headworks, and Amounts Written Off, and £105,013 is debitable against River Murray Works, while £301,570 is not at present debitable, being interest on cost of Uncompleted or Unallotted Works which are not yet revenue producing, leaving £609,267 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 £26,245 for non-revenue producing works and services not chargeable to any districts) was £305,461 as set out in the statement on page 36.

FINANCIAL POSITION.

The Statement of Loan Liability on page 36 of this Report sets out the present aggregate financial position in connexion with Works both for Irrigation and Domestic and Stock Supply as well as for Flood Protection and Drainage Services.

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

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

	£	£
Gross deficit including all Written Off and Irrecoverable Amounts ..	837,147	
To which certain Amounts are debited for Pensions by Treasury ..	7,368	
Exchange debited by Treasury on Interest commitments in London ..	57,100	
Making a total (including fully £170,000—North-west Mallee Arrears) of		901,615
Included in this is Interest on—		
CAPITAL WRITTEN OFF 32 years ago (£1,263,228)		
FREE HEADWORKS declared 26 years ago (£1,403,762)		
RIVER MURRAY AGREEMENT WORKS (£2,209,422)		
Totalling	231,771	
LOSS ON COLIBAN District where Rate is limited by Water Act in lieu of general Writing Off	37,057	
GENERAL SERVICES rendered by Water Commission chargeable to whole State (see page 29 of Report)	26,245	
EXCHANGE debited by Treasury as above	57,100	
	352,173	
Deducting the above there remains to be accounted for a further sum of		549,442
At present there are Works under construction from which it is impracticable to obtain a full Revenue Return until completed or until districts connected with them have been settled so that Revenue could be collected. These comprise amongst others—Eildon and Waranga Reservoirs; Maffra and Sale Irrigation Districts; new Goulburn Districts; Kooweerup and Cardinia Flood Protection Districts; and Bellarine, Millewa, and other Domestic and Stock Schemes. The Interest on these would amount to		301,570
Leaving still to be accounted for a sum of		247,872
The Interest chargeable to Districts controlled by the Commission is fixed by the Water Act at 4 per cent., which until recently was sufficient. The percentage now charged the Commission by the Treasury is £4 19s. 9d., and this represents approximately a sum of		126,585
Leaving after excluding Interest on Free Headworks, Amounts Written Off, River Murray Works, and other Items mentioned		121,287

As shown in the above statement, considerable sums are still debited to Country Water Supply for Capital Written Off by the Legislature some 32 years ago, and for Headworks declared by Parliament to be "Free Headworks" some 26 years ago. No interest can be charged to water users in respect to such expenditure. The cost of the River Murray Works, which is being borne equally by the States of New South Wales, South Australia, Victoria, and the Commonwealth, in pursuance of the agreement ratified by each of the Parliaments, is also debited to Country Water Supply. This expenditure is not chargeable to any District. The Uncompleted and Unallotted Works include a number of large schemes in various parts of the State which are still in course of construction or from which the capital cannot be allotted pending the development of these Districts. In several of these Districts, and especially those in the North-west Mallee, the financial returns have been delayed for a number of years because of the crop failure resulting from abnormally dry seasons, and, when last year a reasonably good harvest was obtained, prices received for the product were so low as to be entirely unremunerative, necessitating a continuance of sustenance allowances to the settlers. With a return to reasonable prices for cereals a considerable increase in revenue collections can be confidently expected. Developments in irrigated culture in Maffra-Sale Districts will also warrant a substantial transfer of capital to those areas, and in Bellarine Peninsula, works are so advanced that an early revenue return can be expected. There are also several large and important irrigation works in course of development in connexion with the Goulburn System, and these Districts are rapidly advancing and will be debited with capital in accordance with the benefits which the works confer, with of course a corresponding increase in revenue return.

The receipts from the Commission's works for last year amounted to £441,530. The collections were as previously stated much lower than the estimate because of the great financial stringency, and the abnormally low prices ruling for primary products. For the incoming year the estimated collections of the Commission are £520,000, an increase of no less than £78,470 over the actual receipts for 1930-31.

RECEIPTS AND DISBURSEMENTS.

STATEMENT of Moneys received and disbursed during the year ended 30th June, 1931.

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	42,523	15,194	...	15,194	27,329	...
Other State Works—						
Broken River ... ..	...	130	...	130	...	130
Goulburn	192	3,821	...	3,821	...	3,629
Kow Swamp	315	831	...	831	...	516
Lake Lonsdale	717	939	...	939	...	222
Loddon River ... ..	...	83	...	83	...	83
North-West Lakes	289	259	...	259	30	...
Irrigation Districts	235,061	108,106	...	108,106	126,955	...
Waterworks Districts	73,957	59,166	...	59,166	14,791	...
Urban Districts and Divisions	59,197	13,278	200	13,078	46,119	...
Flood Protection Districts... ..	4,568	793	...	793	3,775	...
Other Districts not yet classified Licences, Diversions, Miscellaneous }	24,711	24,273	...	24,273	438	...
	441,530	226,873	200	226,673	219,437	4,580
Not Revenue Producing—						
River Gauging, Surveys and Re- ports, New Projects ... ..	...	4,283	...	4,283	...	4,283
Waterworks Trusts ... ..	...	...	...	...	...	...
Boring for Water, Road Clearing, Mallee and Land Settlement ... ..	...	9,585	...	9,585	...	9,585
Loan Works ... ..	...	7,797	...	7,797	...	7,797
Totals	441,530	248,538	200	248,338	219,437	26,245
Amount available to meet Depreciation					£500	
Amount available to meet Interest, as per page 36 of Report					£192,692	

COLIBAN SYSTEM.

STATEMENT of Moneys received and disbursed during the year ended 30th June, 1931 ; and of Interest charged at the rate of 4 per cent. on Capital Debits (including £19,054 at 6 per cent.).

District.	Capital Debit at 30th June, 1931.	Receipts.	Disbursements and Interest Charged.			Excess.	
			Disbursements.	Interest.	Total.	Receipts over Disbursements and Interest.	Disbursements and Interest over Receipts.
	£	£	£	£	£	£	£
Coliban	1,601,591	40,746	13,642	63,775	77,417	...	36,671
Axe Creek	1,750	335	391	70	461	...	126
Harcourt	11,040	1,296	1,111	442	1,553	...	257
Marong	2,100	146	65	84	149	...	3
Totals	1,616,481	42,523	15,209	64,371	79,580	...	37,057

FLOOD PROTECTION DISTRICTS.

STATEMENT of Moneys received and disbursed from 1st July, 1920, to 30th June, 1931 ; and of Interest charged at the rate of 4 per cent. on Capital Debits (including £458 at 6 per cent.) ; and also of Depreciation and Redemption charged as at 30th June, 1931.

RECEIPTS.

District.	1st July, 1920, to 30th June, 1930.	1930-31.			Grand Total at 30th June, 1931.
		Charge.	Interest and Miscellaneous.	Total.	
	£	£	£	£	£
1. Cardinia	14,336	1,012	9	1,021	15,357
2. Echuca	1,295	42	..	42	1,337
3. Kanyapella	1,411	168	..	168	1,579
4. Loch Garry	4,629	509	2	511	5,140
5. Lower Kooweerup	33,029	2,263	563	2,826	35,855
Totals	54,700	3,994	574	4,568	59,268

DISBURSEMENTS, AND INTEREST, DEPRECIATION, AND REDEMPTION CHARGED.

District.	DISBURSEMENTS.					INTEREST CHARGED.			(A) DEPRE- CIATION. (B) RE- DEMP- TION.	Grand Total at 30th June, 1931.
	1st July, 1920, to 30th June, 1930.	1930-31.			Total at 30th June, 1931.	1st July, 1920, to 30th June, 1930.	1st July, 1930, to 30th June, 1931.	Total at 30th June, 1931.		
		Repairs and Mainten- ance.	Manage- ment.	Total.						
	£	£	£	£	£	£	£	£	£	£
1. Cardinia	3,861	16	199	215	4,076	12,928	1,800	14,728	..	18,804
2. Echuca	799	8	22	30	829	432	47	479	..	1,308
3. Kanyapella	439	51	63	114	553	680	140	820	..	1,373
4. Loch Garry	571	110	66	176	747	2,418	491	2,909	(B) 800	4,456
5. Lower Kooweerup	6,746	20	238	258	7,004	28,968	4,000	32,968	..	39,972
Totals	12,416	205	588	793	13,209	45,426	6,478	51,904	800	65,913

IRRIGATION AND WATER SUPPLY DISTRICTS.

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, 1931; and of Interest charged at the rate of 4 per cent. on Capital Debts (including £65,139 at 6 per cent.); and also of Depreciation and Redemption charged, as at 30th June, 1931. (Free Headworks excluded.)

RECEIPTS.

District.	1st May, 1906, to 30th June, 1930.	1930-31.					Grand Total at 30th June, 1931.
		Rates.	Compulsory Irrigation Charge.	Water Sales.	Interest and Miscellaneous.	Total.	
	£	£	£	£	£	£	£
1. Bacchus Marsh	89,469	776	3,730	521	519	5,546	95,015
2. Boort	67,244	1,539	..	2,817	38	4,394	71,638
3. Calivil	4,347	395	..	1,571	1030	2,996	7,343
4. Campaspe	18,043	654	..	50	2	706	18,749
5. Cohuna	184,025	2,024	5,114	1,310	90	8,538	192,563
6. Deakin	102,883	2,552	..	911	16	3,479	106,362
7. Dingee	28,577	91	831	210	77	1,209	29,786
8. Echuca North	15,259	150	1,087	230	41	1,503	16,767
9. Fish Point	3,172	34	194	270	4	502	3,674
10. Gannawarra	150,141	1,544	4,081	1,465	81	7,171	157,312
11. Katandra	2,484	225	..	498	3	726	3,210
12. Kerang	123,030	1,976	..	3,433	32	5,441	128,471
13. Koondrook	123,945	1,179	2,680	710	1,194	5,763	129,708
14. Leitchville	8,896	555	1,010	586	1	2,152	11,048
15. Maffra-Sale	15,236	1,937	6,087	1,273	332	9,629	24,865
16. Merbein	304,084	1,497	25,311	1,005	1,950	29,763	333,847
17. Mystic Park	8,809	114	317	277	3	711	9,520
18. North Shepparton	5,579	1,262	..	690	1,005	2,957	8,536
19. Nyah	92,501	349	3,962	59	592	4,962	97,463
20. Red Cliffs	180,320	1,261	43,828	686	1,771	47,546	227,866
21. Rochester	242,555	2,141	10,611	2,414	1,296	16,462	259,017
22. Rodney	505,290	5,742	14,506	5,260	1,109	26,617	531,907
23. Shepparton	116,319	1,019	3,286	60	1,111	5,476	121,795
24. South Shepparton	10,535	545	1,128	57	12	1,742	12,277
25. Stanhope	51,099	487	2,911	605	1,166	5,169	56,268
26. Swan Hill	130,308	671	4,212	1,753	775	7,411	137,719
27. Third Lake	4,902	118	424	104	37	683	5,585
28. Tongala	110,045	1,016	4,537	971	1,228	7,752	117,797
29. Tragowel Plains	234,521	1,522	7,013	1,191	635	10,361	244,882
30. Tresco	21,047	..	738	13	104	855	21,902
31. Werribee	73,822	824	3,641	1,024	1,345	6,834	80,656
Totals	3,028,487	34,199	151,239	32,024	17,599	235,061	3,263,548

DISBURSEMENTS, AND INTEREST, DEPRECIATION, AND REDEMPTION CHARGED.

District.	DISBURSEMENTS						INTEREST CHARGED.			(A) DEPRECIATION. (B) REDEMPTION.	Grand Total at 30th June, 1931.
	1st May, 1906, to 30th June, 1930.	1930-31.				Total at 30th June, 1931.	1st May, 1906, to 30th June, 1930.	1st July, 1930, to 30th June, 1931.	Total at 30th June, 1931.		
		Repairs and Maintenance.	Distribution of Water.	Management.	Total.						
	£	£	£	£	£	£	£	£	£	£	£
1. Bacchus Marsh	21,203	20	715	275	1,010	22,213	75,364	5,587	80,951	..	103,164
2. Boort ..	33,665	513	1,528	337	2,378	36,043	27,588	3,755	31,343	(B) 1,400	68,786
3. Calivil ..	1,592	217	1,091	188	1,496	3,088	3,750	4,276	8,026	..	11,114
4. Campaspe ..	10,628	32	432	66	530	11,158	10,107	466	10,573	..	21,731
5. Cohuna ..	111,952	1,313	1,192	262	2,767	114,719	74,183	5,883	80,066	(A) 9,010	203,795
6. Deakin ..	40,058	168	698	182	1,048	41,106	65,693	3,278	68,971	..	110,077
7. Dingee ..	14,523	127	658	125	910	15,433	18,299	1,223	19,522	..	34,955
8. Echuca North ..	6,308	147	514	99	760	7,068	9,359	1,626	10,985	..	18,053
9. Fish Point ..	2,008	336	325	65	726	2,734	2,072	617	2,689	..	5,423
10. Gannawarra ..	83,507	1,170	1,061	238	2,469	85,976	64,532	5,698	70,230	(A) 5,694	161,900
11. Katandra ..	561	49	499	44	592	1,153	3,844	4,034	7,878	..	9,031
12. Kerang ..	66,129	868	1,651	510	3,029	69,158	50,020	4,311	54,331	(A) 450 (B) 2,700	126,639
13. Koondrook ..	73,933	1,280	1,548	315	3,143	77,076	79,973	7,037	87,010	(A) 4,501	168,587
14. Leitchville ..	3,420	682	615	136	1,433	4,853	5,292	1,593	6,885	..	11,738
15. Maffra-Sale ..	4,423	1,900	2,192	571	4,663	9,086	10,760	6,480	17,240	..	26,326
16. Merbein ..	245,388	442	11,685	334	12,461	257,849	97,420	8,009	105,429	(A) 12,013	375,291
17. Mystic Park ..	6,484	188	310	90	588	7,072	3,863	679	4,542	..	11,614
18. Nth. Shepparton	923	53	371	50	474	1,397	6,239	6,958	13,197	..	14,594
19. Nyah ..	78,162	654	4,132	475	5,261	83,423	44,177	4,076	48,253	(A) 3,802	135,478
20. Red Cliffs ..	109,668	1,604	22,400	706	24,710	134,378	71,408	18,300	89,708	(A) 5,000	229,086
21. Rochester ..	104,320	2,388	5,499	680	8,567	112,887	166,611	15,513	182,124	..	295,011
22. Rodney ..	209,326	1,876	7,157	920	9,953	219,279	326,193	24,308	350,501	..	569,780
23. Shepparton ..	42,664	174	1,274	657	2,105	44,769	97,483	9,336	106,819	..	151,588
24. Sth. Shepparton	2,564	24	163	43	230	2,794	7,225	2,698	9,923	..	12,717
25. Stanhope ..	23,037	713	1,615	181	2,509	25,546	32,889	4,858	37,747	..	63,293
26. Swan Hill ..	73,385	1,028	1,523	616	3,167	76,552	58,278	6,383	64,661	(A) 4,768	145,981
27. Third Lake ..	1,184	72	169	32	273	1,457	4,686	1,005	5,691	..	7,148
28. Tongala ..	48,288	779	1,806	346	2,931	51,219	95,760	8,087	103,847	..	155,066
29. Tragowel Plains	92,731	827	3,258	459	4,544	97,275	149,325	13,907	163,232	..	260,507
30. Tresco ..	26,027	454	1,558	216	2,228	28,255	23,382	3,612	26,994	..	55,249
31. Werribee ..	14,496	175	662	314	1,151	15,647	59,233	8,781	68,014	..	83,661
Totals ..	1,552,557	20,273	78,301	9,532	108,106	1,660,663	1,745,008	192,374	1,937,382	49,338	3,647,383

WATERWORKS DISTRICTS.

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, 1931; and of Interest charged at the rate of 4 per cent. on Capital Debts (including £107,618 at 6 per cent.); and also of Depreciation and Redemption charged, as at 30th June, 1931. (Free Headworks excluded.)

RECEIPTS.

District.	1st May, 1906, to 30th June, 1930.	1930-31.				Grand Total at 30th June, 1931.
		Rates.	Water Sales.	Interest and Miscellaneous.	Total.	
	£	£	£	£	£	£
1. Birchip	430,653	1,460	57	13	1,530	446,437
2. Sea Lake		2,866	144	76	3,086	
3. Tyrrell		6,294	3	984	7,281	
4. Wycheproof		3,778	87	22	3,887	
5. Carwarp	9,416	910	..	395	1,305	10,721
6. Carwarp Central	685	199	..	92	291	976
7. Dering	2,013	197	..	10	207	2,220
8. Eureka	1,042	188	..	33	221	1,263
9. Hindmarsh	1,324	691	..	2	693	2,017
10. Karkaroo	176,204	6,403	..	90	6,493	182,697
11. Kerang North-West Lakes	2,830	92	..	1	93	2,923
12. Kia	226	696	..	93	789	1,015
13. Long Lake	147,733	4,081	..	141	4,222	151,955
14. Mornington Peninsula	36,927	6,000	..	57	6,057	42,984
15. Narre Warren	1,321	21	216	9	246	1,567
16. Tyntynder	84,241	2,661	..	139	2,800	87,041
17. Upper Western Wimmera	65,696	3,430	..	6	3,436	69,132
18. Upper Wimmera United	109,029	4,474	10	56	4,540	113,569
19. Walpeup West	24,426	585	54	58	697	25,123
20. Werribee	7,531	612	..	5	617	8,148
21. Western Wimmera	231,266	11,324	1,045	56	12,425	243,691
22. Wimmera United	256,193	11,828	827	101	12,756	268,949
23. Yelta	3,942	244	4	37	285	4,227
Totals	1,592,698	69,034	2,447	2,476	73,957	1,666,655

DISBURSEMENTS, AND INTEREST, DEPRECIATION, AND REDEMPTION CHARGED.

District.	DISBURSEMENTS.					INTEREST CHARGED.				(A) DEPRECIATION.	(B) REDEMPTION.	Grand Total at 30th June, 1931.
	1st May 1906, to 30th June, 1930.	1930-31.				Total at 30th June, 1931.	1st May, 1906, to 30th June, 1930.	1st July, 1930, to 30th June, 1931.	Total at 30th June, 1931.			
		Repairs and Maintenance.	Distribution of Water.	Management.	Total.							
	£	£	£	£	£	£	£	£	£	£	£	£
1. Birchip ..	210,763	20,353	3,342	1,148	24,843	235,606	261,478	26,904	288,382	..	..	523,988
2. Sea Lake ..												
3. Tyrrell ..												
4. Wycheproof ..												
5. Carwarp ..	16,150	4,176	464	61	4,701	20,851	10,081	1,525	11,606	A	586	33,043
6. Carwarp Central ..	705	4	151	25	180	885	544	154	698	A	5	1,588
7. Dering ..	1,320	29	99	45	173	1,493	1,859	455	2,314	..	..	3,807
8. Eureka ..	2,043	32	189	35	256	2,299	725	200	925	..	..	3,224
9. Hindmarsh ..	664	171	211	55	437	1,101	771	1,078	1,849	A	140	3,090
10. Karkaroo ..	65,512	7,162	539	353	8,054	73,566	114,824	10,562	125,386	..	..	198,952
11. Kerang N.W. Lakes ..	1,689	6	77	25	108	1,797	1,321	79	1,400	..	..	3,197
12. Kia ..	91	468	382	31	881	972	199	474	673	..	..	1,645
13. Long Lake ..	90,512	1,603	2,067	202	3,872	94,384	62,464	5,895	68,359	A	8,305	171,048
14. Mornington Peninsula ..	5,612	90	102	155	347	5,959	31,810	2,740	34,550	..	..	40,509
15. Narre Warren ..	197	5	5	8	18	215	1,131	412	1,543	..	..	1,758
16. Tyntynder ..	53,665	3,769	1,804	149	5,722	59,387	61,873	7,752	69,625	..	..	129,012
17. Upper Western Wimmera	26,792	381	373	101	855	27,647	32,411	2,789	35,200	{ A 606 B 1,500 }	..	64,953
18. Upper Wimmera United	35,843	576	401	192	1,169	37,012	67,624	5,672	73,296	B 2,390	..	112,698
19. Walpeup West ..	18,512	803	..	83	886	19,398	10,919	1,313	12,232	A 1,200	..	32,830
20. Werribee ..	2,260	2	130	66	198	2,458	6,573	598	7,171	..	..	9,629
21. Western Wimmera ..	107,927	1,506	1,472	400	3,378	111,305	108,721	8,482	117,203	{ A 2,422 B 5,400 }	..	236,330
22. Wimmera United ..	88,901	1,346	934	448	2,728	91,629	151,331	12,730	164,061	B 5,310	..	261,000
23. Yelta ..	3,051	168	155	37	360	3,411	2,051	239	2,290	..	..	5,701
Totals ..	732,209	42,650	12,897	3,619	59,166	791,375	928,710	90,053	1,018,763	..	27,864	1,838,002

DISTRICTS HELD IN TRUST BY THE COMMISSION.

STATEMENT OF RECEIPTS AND DISBURSEMENTS FOR THE YEAR ENDED 31ST DECEMBER, 1930.

RECEIPTS.

Name of Trust.	Bank Balance, at 31st December, 1929.	1930.				Grand Total for Year 1930.
		Rates.	Water Sales.	Interest and Miscellaneous.	Total.	
	£	£	£	£	£	£
Avoca	Cr. 34	560	137	19	716	750
Avoca (Quambatook, Urban)	Cr. 105	534	13	27	574	679
Carrum	Dr. 434	2,201	..	299	2,500	2,016
Loddon United	Dr. 760	1,870	10	26	1,906	1,146
Loddon United (Mitiamo, Urban)	Dr. 61	150	238	1	389	328
Totals	{ Cr. 139 Dr. 1,305 }	5,315	398	372	6,085	4,919

DISBURSEMENTS.

Name of Trust.	1930.					Grand Total for Year 1930.	Bank Balance carried forward 1st January, 1931.
	Repairs and Maintenance.	Water Distribution.	Management.	Total.	Interest.		
	£	£	£	£	£	£	£
Avoca	268	..	119	387	146	B 104	Cr. 113
Avoca (Quambatook, Urban)	128	158	44	330	163	{ A 60 B 38 }	Cr. 83
Carrum	614	..	146	760	1,134	B 262	Dr. 140
Loddon United	588	506	154	1,248	433	B 321	Dr. 856
Loddon United (Mitiamo, Urban)	123	..	24	147	213	{ A 28 B 18 }	Dr. 78
Totals	1,721	664	487	2,872	2,089	{ A 88 B 743 }	Cr. 201 Dr. 1,074

URBAN DISTRICTS

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, £5,031 at 6 per cent.); and also of Depreciation and Redemption charged, as at

RECEIPTS.

District or Division.	1st May, 1906, to 30th June, 1930.	1930-31.				Grand Total at 30th June, 1931.
		Rates.	Water Sales.	Interest and Miscel- laneous.	Total.	
	£	£	£	£	£	£
1. Antwerp	32	72	..	..	72	104
2. Bacchus Marsh	26,976	1,314	346	7	1,667	28,643
3. Berriwillock	3,072	243	2	18	263	3,335
4. Berwick	3,197	557	140	8	705	3,902
5. Beulah	8,797	477	83	31	591	9,388
6. Birchip	19,029	550	379	70	999	20,028
7. Bittern	841	103	56	1	160	1,001
8. Brim	1,650	201	25	14	240	1,890
9. Carrum	46,048	5,774	728	175	6,677	52,725
10. Carwarp	108	32	..	2	34	142
11. Chillingollah	611	88	..	4	92	703
12. Chinkapook	295	209	..	1	210	505
13. Cohuna	11,276	908	88	63	1,059	12,335
14. Corop	615	26	..	..	26	641
15. Cranbourne	5,086	301	107	15	423	5,509
16. Crib Point .. .. .	..	271	..	..	271	271
17. Culgoa	3,207	202	122	12	336	3,543
18. Dandenong	38,447	4,007	919	145	5,071	43,518
19. Dimboola	33,875	1,273	618	20	1,911	35,786
20. Dingee	447	71	..	..	71	518
21. Doon	17	17	18	1	36	53
22. Frankston	28,036	3,530	651	100	4,281	32,317
23. Hastings	1,077	290	5	5	300	1,377
24. Hicksborough .. .. .	..	95	..	1	96	96
25. Hopetoun	10,625	674	172	51	897	11,522
26. Jeparit	12,302	785	241	25	1,051	13,353
27. Jung Jung	1,694	128	37	1	166	1,860
28. Koondrook	6,778	275	21	2	298	7,076
29. Lake Boga	5,826	302	11	21	334	6,160
30. Lalbert	1,698	248	116	8	372	2,070
31. Lascelles	2,081	113	24	15	152	2,233
32. Leitchville	1,972	272	22	22	316	2,288
33. Lockington	1,471	246	2	20	268	1,739
34. Manangatang	2,910	436	80	8	524	3,434
35. Marnoo	1,407	233	68	2	303	1,710
36. Merbein	10,339	1,173	91	95	1,359	11,698
37. Meringur	63	193	..	6	199	262
38. Minyip	12,899	639	84	50	773	13,672
39. Mornington	20,034	2,792	325	156	3,273	23,307
40. Mount Martha	1,127	602	32	7	641	1,768
41. Murrabit	27	66	..	..	66	93
42. Nandaly	563	130	..	6	136	699
43. Natimuk	10,189	251	204	51	506	10,695
44. North Wonthaggi	1,118	492	..	9	501	1,619
45. Nullawil	624	118	2	10	130	754
46. Nyah	1,067	88	4	1	93	1,160
47. Nyah West	4,205	499	25	5	529	4,734
48. Ouyen	17,123	1,261	579	73	1,913	19,036
49. Pakenham	2,543	578	448	5	1,031	3,574
50. Patchewollock	247	135	7	4	146	393
51. Piangil	2,964	156	132	3	291	3,255
52. Pyramid Hill	2,260	499	57	36	592	2,852
53. Rainbow	16,971	650	161	35	846	17,817
54. Red Cliffs	7,986	1,451	129	56	1,636	9,622
55. Rupanyup	11,236	608	67	36	711	11,947
56. Sea Lake	13,303	652	361	55	1,068	14,371
57. Somerville	1,779	236	55	5	296	2,075
58. South Frankston	8,664	1,370	136	4	1,510	10,174
59. Speed	268	153	..	1	154	422
60. Spring Vale	9,991	2,029	274	18	2,321	12,312
61. Stanhope	888	187	..	3	190	1,078
62. Tempy	285	122	8	8	138	423
63. Ultima	6,474	351	8	31	390	6,864
64. Waitchie	405	26	1	..	27	432
65. Watchem	4,818	223	21	27	271	5,089
66. Werrimull	472	394	8	7	409	881
67. Wonthaggi	73,377	2,638	2,319	23	4,980	78,357
68. Woomelang	12,129	260	322	32	614	12,743
69. Woorinen	497	90	..	1	91	588
70. Wycheproof	13,058	736	203	53	992	14,050
71. Yaapeet	85	97	..	5	102	187
Totals	551,581	46,268	11,144	1,785	59,197	610,778

AND DIVISIONS.

1931; and of Interest charged, at the rate of 4 per cent. on Capital Debits (including 30th June, 1931. (Free Headworks excluded).

DISBURSEMENTS, AND INTEREST, DEPRECIATION, AND REDEMPTION CHARGED.

District or Division.	DISBURSEMENTS.						INTEREST CHARGED.				(a) DEPRECIATION.	(b) REDEMPTION.	Grand Total at 30th June, 1931.
	1st May, 1906, to 30th June, 1930.	1930-31.				Total at 30th June, 1931.	1st May, 1906, to 30th June, 1930.	1st July, 1930, to 30th June, 1931.	Total at 30th June, 1931.				
		Repairs and Maintenance.	Distribution of Water.	Management.	Total.								
	£	£	£	£	£	£	£	£	£	£	£	£	
1. Antwerp ..	17	2	12	11	25	42	6	38	44	(a)	6	92	
2. Bacchus Marsh ..	6,567	10	164	114	288	6,855	19,725	1,449	21,174	(a)	686	28,715	
3. Berriwillock ..	1,629	59	24	34	117	1,746	1,429	214	1,643	(a)	61	3,450	
4. Berwick ..	426	20	22	33	75	501	2,749	665	3,414	(a)	..	3,915	
5. Beulah ..	3,821	27	222	31	280	4,101	4,655	332	4,987	(a)	72	9,160	
6. Birchip ..	8,860	112	264	71	447	9,307	9,104	666	9,770	(a) (b)	976	20,053	
7. Bittern ..	113	3	3	5	11	124	739	150	889	(a)	..	1,013	
8. Brim ..	419	15	18	26	59	478	931	191	1,122	(a)	126	1,726	
9. Carrum ..	7,771	192	220	334	746	8,517	38,240	6,500	44,740	(a)	..	53,257	
10. Carwarp ..	43	6	5	13	24	67	49	25	74	(a)	58	199	
11. Chillingollah ..	272	9	24	24	57	329	549	149	698	(a)	100	1,127	
12. Chinkapook ..	78	3	18	24	45	123	202	97	299	(a)	106	528	
13. Cohuna ..	3,255	103	70	74	247	3,502	7,064	778	7,842	(a) (b)	750	12,094	
14. Corop ..	274	26	5	6	37	311	307	14	321	(a)	48	680	
15. Cranbourne ..	670	9	10	16	35	705	4,458	648	5,136	(a)	..	5,841	
16. Crib Point ..	..	9	10	16	35	35	..	179	179	(a)	58	272
17. Culgoa ..	1,401	32	12	37	81	1,482	1,816	269	2,085	(a)	51	3,618	
18. Dandenong ..	6,744	121	138	207	466	7,210	30,655	4,650	35,305	(a)	500	43,015	
19. Dimboola ..	21,437	151	278	120	549	21,986	9,417	1,266	10,683	(a) (b)	1,620	35,519	
20. Dingee ..	175	10	12	12	34	209	277	62	339	(a)	70	618	
21. Doon ..	18	..	6	10	16	34	28	28	56	(a)	2	92	
22. Frankston ..	4,643	114	130	196	440	5,083	23,183	4,130	27,313	(a)	..	32,396	
23. Hastings ..	214	10	11	17	38	252	908	277	1,185	(a)	..	1,437	
24. Hicksborough ..	..	15	15	14	44	44	..	49	49	(a)	10	103
25. Hopetoun ..	6,136	44	277	43	364	6,500	4,634	476	5,110	(b)	150	11,760	
26. Jeparit ..	2,529	40	54	70	164	2,693	8,465	879	9,344	(b)	800	12,837	
27. Jung Jung ..	1,106	17	68	19	104	1,210	670	64	734	(a)	50	1,994	
28. Koondrook ..	3,508	5	201	44	250	3,758	2,982	209	3,191	(a)	285	7,234	
29. Lake Boga ..	2,768	18	185	52	255	3,023	3,066	166	3,232	(a) (b)	282	6,537	
30. Lalbert ..	360	14	20	53	87	447	1,211	282	1,493	(a)	393	2,333	
31. Lascelles ..	1,056	48	50	24	122	1,178	1,158	118	1,276	(a)	128	2,582	
32. Leitchville ..	1,090	97	68	37	202	1,292	966	88	1,054	(a)	140	2,486	
33. Lockington ..	332	13	26	28	67	399	1,035	241	1,276	(a)	225	1,900	
34. Manangatang ..	869	15	24	55	94	963	1,728	338	2,066	(a)	390	3,419	
35. Marnoo ..	281	..	24	30	54	335	803	234	1,037	(a)	315	1,687	
36. Merbein ..	5,055	35	392	123	550	5,605	5,343	748	6,091	(a)	450	12,146	
37. Meringur ..	47	12	12	24	48	95	43	106	149	(a)	30	274	
38. Minyip ..	4,013	10	169	65	244	4,257	7,855	640	8,495	(a) (b)	515	13,667	
39. Mornington ..	3,310	90	102	154	346	3,656	16,413	3,000	19,413	(a)	..	23,069	
40. Mount Martha ..	196	21	24	37	82	278	920	560	1,480	(a)	..	1,758	
41. Murrabit ..	24	3	10	14	27	51	20	41	61	(a)	..	112	
42. Nandaly ..	227	5	12	19	36	263	242	69	311	(a)	120	694	
43. Natimuk ..	2,597	11	79	96	186	2,783	6,953	342	7,295	(b)	750	10,828	
44. North Wonthaggi ..	332	80	50	43	173	505	714	284	998	(a)	160	1,663	
45. Nullawil ..	235	26	15	19	60	295	487	167	654	(a)	..	949	
46. Nyah ..	433	..	24	25	49	482	495	55	550	(a)	68	1,100	
47. Nyah West ..	1,057	84	76	57	217	1,274	2,814	351	3,165	(a)	468	4,907	
48. Ouyen ..	6,769	42	415	127	584	7,353	10,087	1,350	11,437	(a)	450	19,240	
49. Pakenham ..	261	21	24	33	78	339	1,890	930	2,820	(a)	272	3,431	
50. Patchewillock ..	105	10	26	23	59	164	194	128	322	(a)	92	578	
51. Piangil ..	738	93	35	40	168	906	1,690	280	1,970	(a)	408	3,284	
52. Pyramid Hill ..	1,043	73	90	39	202	1,245	1,123	347	1,470	(a)	180	2,895	
53. Rainbow ..	3,183	33	79	55	167	3,350	11,669	924	12,593	(a) (b)	1,680	17,613	
54. Red Cliffs ..	4,047	54	348	100	502	4,549	2,816	969	3,785	(a)	400	8,734	
55. Rupanyup ..	3,708	18	162	31	211	3,919	6,411	604	7,015	(a) (b)	862	11,796	
56. Sea Lake ..	6,998	35	190	61	286	7,284	5,244	593	5,837	(a)	924	14,045	
57. Somerville ..	320	7	8	12	27	347	1,659	240	1,899	(a)	..	2,246	
58. South Frankston ..	1,344	45	52	77	174	1,518	7,243	1,400	8,643	(a)	..	10,161	
59. Speed ..	103	11	18	23	52	155	107	80	187	(a)	120	462	
60. Spring Vale ..	1,481	69	78	117	264	1,745	8,130	2,100	10,230	(a)	..	11,975	
61. Stanhope ..	247	10	16	17	43	290	595	142	737	(a)	160	1,187	
62. Tempy ..	137	3	18	24	45	182	136	103	239	(a)	104	525	
63. Ultima ..	2,397	22	43	40	105	2,502	3,799	406	4,205	(a)	180	6,887	
64. Waitechie ..	238	24	12	14	50	288	334	102	436	(a)	144	868	
65. Watchem ..	1,546	52	24	31	107	1,653	3,107	235	3,342	(a)	160	5,155	
66. Werrimull ..	125	27	24	29	80	205	261	251	512	(a)	72	790	
67. Wonthaggi ..	12,962	657	454	212	1,323	14,285	46,079	2,379	48,458	(b)	11,000	73,743	
68. Woomelang ..	3,998	44	61	63	168	4,166	7,616	720	8,336	(a) (b)	560	13,062	
69. Woorinen ..	163	15	12	32	59	222	332	101	433	(a)	68	723	
70. Wycheproof ..	6,934	34	223	57	314	7,248	5,759	518	6,277	(a)	698	14,223	
71. Yaapeet ..	37	..	18	15	33	70	89	90	179	(a)	52	301	
Totals ..	165,292	3,145	6,085	3,848	13,078	178,370	351,908	47,276	399,184	..	31,236	608,790	

LOAN EXPENDITURE. STATEMENT OF LOAN EXPENDITURE DURING THE YEAR ENDED 30TH JUNE, 1931.

Works.	Loans Application Act No. 3813.	Loans Application Act No. 3882.	Total.
	£ s. d.	£ s. d.	£ s. d.
<i>Free Headworks.</i>			
1. Kerang North-West Lakes	18 7 8	2,551 16 9	2,570 4 5
<i>River Murray Waters Acts—Works.</i>			
2. Storages, Weirs and Locks	7,990 4 3	87,373 18 5	95,364 2 8
<i>Reservoirs and Storages.</i>			
3. Campaspe and Loddon Rivers Storages	590 15 5	4,795 10 6	5,386 5 11
4. Goulburn Storages—			
Eildon Reservoir	40,745 15 4	62,104 11 1	102,850 6 5
Waranga Reservoir	306 0 9	2,788 1 1	3,094 1 10
5. Maffra, Glenmaggie Reservoir	325 5 9	2,747 9 8	3,072 15 5
6. Melton and Pykes Creek Reservoirs	1,567 5 3	2,804 3 9	4,371 9 0
7. Wimmera-Mallee Storages—Pine Lake .. .. .	..	1,314 17 3	1,314 17 3
<i>Waterworks Districts.</i>			
8. Bellarine Peninsula	75 12 9	57,652 2 2	57,727 14 11
9. Birchip, Sea Lake, Tyrrell, and Wycheproof	718 0 9	32,666 12 2	33,384 12 11
10. Carwarp and Carwarp Central	331 6 5	846 12 2	1,177 18 7
11. Coreena	2 10 0	125 1 8	127 11 8
12. Eureka, Baring, and Kia .. .. .	..	121 16 10	121 16 10
13. Hindmarsh	6 5 3	510 19 0	517 4 3
14. Karkaroo	32 16 11	11,892 18 7	11,925 15 6
15. Kerang North-West Lakes .. .. .	..	27 3 8	27 3 8
16. Long Lake .. .. .	..	5,524 17 2	5,524 17 2
17. Millewa	5,827 3 10	8,115 2 11	13,942 6 9
18. Mornington Peninsula	469 12 2	62,404 12 7	62,874 4 9
19. Tyntynder .. .. .	..	11,549 3 4	11,549 3 4
20. Walpeup	5,791 8 6	8,536 2 5	14,327 10 11
21. Western Wimmera .. .. .	..	16,181 18 8	16,181 18 8
22. Wimmera United .. .. .	..	15,871 9 0	15,871 9 0
23. Wimmera Main Channels .. .. .	..	1,095 3 11	1,095 3 11
24. Yelta .. .. .	..	213 2 5	213 2 5
<i>Towns.</i>			
25. Bacchus Marsh	5 10 6	19 6 7	24 17 1
26. Berriwillock, Beulah, and Birchip .. .. .	..	364 8 1	364 8 1
27. Cohuna, Koondrook, and Lockington	127 17 9	107 0 2	234 17 11
28. Coliban	4,944 14 10	19,053 12 11	23,998 7 9
29. Chinkapook, Culgoa, and Dimboola .. .. .	..	494 12 9	494 12 9
30. Hopetoun, Jeparit, Jung Jung, and Lake Boga .. .. .	..	1,146 15 9	1,146 15 9
31. Heyfield and Stratford	539 0 7	6,730 1 7	7,269 2 2
32. Lalbert, Lascelles, Manangatang, and Marnoo .. .. .	..	147 9 3	147 9 3
33. Meringur, Werrimull, and Carwarp	318 7 8	357 10 4	675 18 0
34. Merbein, Pyramid Hill, and Red Cliffs .. .. .	..	106 13 1	106 13 1
35. Minyip, Natimuk, and Antwerp .. .. .	..	260 15 6	260 15 6
36. Nullawill, Nyah West, Ouyen, and Piangil .. .. .	..	188 16 5	188 16 5
37. Rainbow, Rupanyup, and Sea Lake .. .. .	..	418 12 8	418 12 8
38. Ultima, Watchem, and Woomelang .. .. .	..	89 9 1	89 9 1
39. Wycheproof and Yaapect .. .. .	..	358 0 10	358 0 10
40. Wonthaggi and Hicksborough	61 15 4	382 0 1	443 15 5
<i>Irrigation and Water Supply Districts.</i>			
41. Bacchus Marsh and Werribee	694 6 3	4,965 10 1	5,659 16 4
42. Boort	1,637 15 1	3,296 0 7	4,933 15 8
43. Calivil	606 17 2	1,632 5 8	2,239 2 10
44. Cohuna and Gannawarra	1,759 15 6	5,762 1 8	7,521 17 2
45. Deakin .. .. .	..	966 2 7	966 2 7
46. Dingle .. .. .	..	63 10 7	63 10 7
47. Fish Point .. .. .	..	105 9 8	105 9 8
48. Katandra	34 11 4	2,022 11 0	2,057 2 4
49. Kerang	2,240 18 4	2,971 8 4	5,212 6 8
50. Koondrook	719 5 9	1,410 3 10	2,129 9 7
51. Leitchville	254 14 6	559 4 2	813 18 8
52. Maffra, Sale	6,014 19 4	25,951 17 4	31,966 16 8
53. Merbein	300 5 10	591 7 4	891 13 2
54. Mystic Park .. .. .	..	154 4 6	154 4 6
55. North Shepparton	78 6 7	7,781 5 5	7,859 12 0
56. Nyah .. .. .	..	204 11 0	204 11 0
57. Red Cliffs .. .. .	..	2,761 18 5	2,761 18 5
58. Rochester, Campaspe, and Echuca North	245 6 2	7,633 10 1	7,878 16 3
59. Rodney	647 17 5	5,512 14 5	6,160 11 10
60. Shepparton	138 11 5	4,733 10 10	4,872 2 3
61. South Shepparton	32 13 4	804 6 8	837 0 0
62. Stanhope	36 10 0	2,769 14 8	2,806 4 8
63. Swan Hill	392 11 7	1,717 5 10	2,109 17 5
64. Third Lake	116 12 5	58 4 0	174 16 5
65. Tongala	197 1 7	5,259 3 5	5,456 5 0
66. Tragowel Plains	510 4 2	1,158 0 6	1,668 4 8
67. Tresoo	14 10 5	176 14 9	191 5 2
68. Goulburn Main Channels	550 11 6	25,138 6 4	25,688 17 10
<i>Flood Protection and Drainage Districts.</i>			
69. Gippsland Rivers and Other Districts .. .. .	..	457 13 4	457 13 4
70. Kooweerup, Cardinia, and Dandenong Creek	1,096 2 10	6,044 1 0	7,140 3 10
<i>Miscellaneous.</i>			
71. Investigations Storages and Works	1,054 1 11	6,410 12 3	7,464 14 2
72. Torrumbarry Districts—New Districts commanded by Torrumbarry Weir	361 5 1	58 19 8	420 4 9
Totals	90,531 13 2	559,173 2 2	649,704 15 4

STATEMENT OF EXPENDITURE DURING THE YEAR ENDED 30TH JUNE, 1931.

CONSTRUCTION OF TANKS AND FORMING ROADS IN THE MALLEE.

(This Expenditure was met by the Lands Department.)

1. Mallee Tanks (Public Tanks) and Channels	£ s. d.
2. Clearing Roads	727 11 9
Total	197 3 10
	£924 15 7

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, 1932, 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, 1932.

ESTIMATED DISBURSEMENTS.

A.

Revenue Producing Works—

Coliban District	..	..	..	..	£10,400
Irrigation and Water Supply Districts	..	..	..	..	95,000
Waterworks Districts	..	..	..	..	66,800
Drainage and Flood Protection Districts	..	..	..	..	750
Diversions from Streams	..	..	..	..	350
General Expenditure and Salaries (proportion) over £250 to be apportioned to above Districts	..	..	..	..	19,700
					<hr/> £193,000

B.

Non-Revenue Producing Works—

General Services—

River Gaugings, Surveys, New Projects, Boring for Water, Land Settlement, General Expenditure and Salaries (proportion) over £250	..	..	..	..	£7,570
Loan Works, Services on Account defrayed from Votes	..	..	..	..	4,000
Waterworks Trusts Administration	..	..	..	..	2,000
					<hr/> £13,570

C.

Non-Revenue Producing Works—

Free Headworks—

Broken River	..	..	..	..	£ 250
Goulburn-Waranga	..	..	..	..	1,350
Kow Swamp	..	..	..	..	1,350
Lake Lonsdale and Lower Wimmera	..	..	..	..	400
Loddon River	..	..	..	..	250
North-West Lakes	..	..	..	..	300
					<hr/> 3,900

£210,470

ESTIMATED RECEIPTS.

Coliban District	..	..	..	..	..	£ 44,000
Irrigation and Water Supply Districts	..	..	..	..	..	283,000
Waterworks Districts	..	..	..	..	..	165,000
Flood Protection Districts	..	..	..	..	..	8,000
Miscellaneous	..	..	..	..	..	20,000

£520,000

Estimated amount available from Revenue Producing Works to meet Interest £327,000

Less expenditure as per "B" and "C" above on Non-Revenue Producing Works 17,470

£309,530

To which add Estimated Revenues from other Authorities—

Waterworks Trusts	..	..	..	..	63,000
Local Bodies	..	..	..	..	28,000

91,000

Total Estimated amount available from Revenues of all Authorities to meet Interest

£400,530

STATEMENT OF LOAN LIABILITY.

STATEMENT of the amount provided by the State to meet Interest on its Loan Expenditure for Works of Water Supply, both State Works of Water Supply and Works vested in Authorities other than the Commission; and of the sums paid from the revenues of the Commission, and from the moneys received from such other Authorities, to provide such Interest for the year ended 30th June, 1931:—

Loan Liability of State for Works of Water Supply at 30th June, 1931, exclusive of Melbourne Water Supply.						Total Interest of £1,142,608 debitable to—		Amount received from Revenues of all Authorities to meet Interest.
Total Advances, including Cost of Loan Flotation.	Deduct Redemption Paid.	Net Advances.	(A.) Amounts Written Off. (B.) Free Head-works. (C.) Uncompleted or Unallotted Works.	Balance at Debit of Authorities.	Interest payable by State on Net Advances.	(A.) Written Off. (B.) Free Head-works. (C.) Uncompleted or Unallotted Works.	Commission and Other Authorities.	
£	£	£	£	£	£	£	£	
4,964,645	49,775	4,914,870	(A.) 175,055	4,739,815	233,599	(A.) 8,320	225,279	£192,692 (after providing £26,245 for non-revenue producing works, including Free Head works).
4,442,869	31,730	4,411,139	(A.) 575,152	3,835,987	209,658	(A.) 27,336	182,322	
1,410,949	106	1,410,843	(C.) 891,993	518,850	67,056	(C.) 42,396	24,660	
235,016	..	235,016	(C.) 50,599	184,417	11,171	(C.) 2,405	8,766	
836,569	..	836,569	(C.) 138,000	698,569	39,762	(C.) 6,559	33,203	
396,087	..	396,087	(C.) 230,837	165,250	18,826	(C.) 10,971	7,855	
2,475,835	1,000	2,474,835	(C.) 2,474,835	..	117,626	(C.) 117,626	..	
1,218,914	..	1,218,914	(C.) 1,052,951	165,963	57,934	(C.) 50,043	7,888	
510,356	..	510,356	(C.) 510,356	..	24,258	(C.) 24,258	..	
779,368	..	779,368	(C.) 297,816	481,552	37,043	(C.) 14,155	22,888	
312,959	..	312,959	(C.) 312,959	..	14,876	(C.) 14,876	..	
88,054	..	88,054	(C.) 88,054	..	4,185	(C.) 4,185	..	
2,134,552	327,799	1,806,753	(A.) 316,537	1,490,216	85,874	(A.) 15,045	70,829	£112,769
842,161	140,275	701,886	(A.) 163,760	538,126	33,360	(A.) 7,783	25,577	
2,209,422	..	2,209,422	(C.) 2,209,422	..	105,013	(C.) 105,013	..	
32,754	30	32,724	(A.) 32,724	..	1,555	(A.) 1,555	..	
1,257,136	420	1,256,716	(B.) 1,256,716	..	59,730	(B.) 59,730	..	
147,046	..	147,046	(B.) 147,046	..	6,989	(B.) 6,989	..	
296,524	..	296,524	(C.) 296,524	..	14,093	(C.) 14,093	..	
24,591,216	551,135	24,040,081	11,221,336	12,818,745	1,142,608	533,341	609,267	305,461
Totals	..	..	..	..	..	..	..	..

Dated at the Office of the State Rivers and Water Supply Commission, Treasury Gardens,
Melbourne, the 24th day of October, 1931.

WM. CATTANACH, Chairman.

E. SHAW, Commissioner.

RICHD. HORSFIELD, Commissioner.

P. J. O'MALLEY, Secretary.