

1912.

VICTORIA.

STATE RIVERS AND WATER SUPPLY COMMISSION.

SEVENTH
ANNUAL REPORT.
—
1911-12.

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

By Authority:

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STATE RIVERS AND WATER SUPPLY COMMISSION.

ANNUAL REPORT, 1911-12.

In compliance with the provisions of the Water Acts the State Rivers and Water Supply Commission submits the following Report and Statement for the Financial Year 1911-12, and Estimates for the ensuing year.

During the year Mr. John Stewart Dethridge, M. Inst. C.E., who had been temporarily acting as Commissioner, was formally appointed a member of the Commission.

WORKS UNDER CONTROL OF COMMISSION.

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

A.—FREE HEAD-WORKS.

DESCRIPTION OF WORKS.	Capital Debt at 30th June, 1912. 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	731,201
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, Race-course Lake, Cullen's Lake, Kangaroo Lake, and Lake Tutchewop, and to the Little Murray River, with water storage works at these lakes	9,587
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 ..	183,953
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	167,251
7. Long Lake Pumping Works :—Regulated intake 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 home- stead ; Jeparit Weir, on the Wimmera, near Jeparit township	8,558
Total	£1,191,803

B.—WATERWORKS DISTRICTS

Distributary Works within Districts under the control of the Commission.

Name of District (Including Urban Districts).	Advances made by State prior to transfer of District to Commission.	Capital Written Off by Acts 1825 and 1851.	Redemp- tion Paid to Treasury.	Balance at Debit at transfer of District to Commission, less Redemption since paid.	Capital Expendi- ture from Loans and Revenue since transfer of District to Commis- sion.	Capital Debt at 30th June, 1912.
	£	£	£	£	£	£
1. Birchip	9,051	..	491	8,560	} 72,463	141,040
2. Sea Lake	49,659	..	373	49,286		
3. Wycheproof	12,452	700	1,021	10,731		
4. Karkaroc	17,094	..	1,943	15,151		
5. Long Lake (Free Head- works excluded)	8,173	..	421	7,752	28,721	36,473
6. Western Wimmera	217,976	132,835	10,566	74,575	18,829	93,404
7. Wimmera United	156,024	36,392	9,064	110,568	8,777	119,345
8. Tyntynder .. .. .	..	..	..	..	13,097	13,097
9. Wonthaggi .. .. .	..	..	..	..	57,088	57,088
10. Coliban	1,171,622	..	..	1,171,622	32,339	1,203,961
Wimmera Main Channels (amount being debited to districts benefited)	..	..	..	..	43,697	43,697
	1,642,051	169,927	23,879	1,448,245	307,615	1,755,860
Carried forward						£2,947,663

WORKS UNDER CONTROL OF COMMISSION—*continued.*Capital Debt
at 30th June,
1912.
Exclusive
of Cost of Loan
Flotation.

Brought forward £ 2,947,663

C.—IRRIGATION AND WATER SUPPLY DISTRICTS.

Distributary Works within Districts under control of the Commission.

Name of District.	Advances made by State prior to transfer of District to Commission.	Capital written off by Acts 1625 and 1651.	Redemption paid to Treasury.	Balance at Debit at transfer of District to Commission, less Redemption since paid.	Capital Expenditure from Loans and Revenue since transfer of District to Commission.	Capital Debt at 30th June, 1912.
	£	£	£	£	£	£
1. Bacchus Marsh ..	14,406	8,906	243	5,257	20,879	26,136
2. Bamawm ..	..	..	..	..	33,851	33,851
3. Boort ..	52,939	35,259	394	17,286	216	17,502
4. Campaspe ..	61,700	52,685	305	8,710	4,198	12,908
5. Cohuna ..	76,325	47,431	275	28,619	27,242	55,861
6. Deakin ..	70,369	34,748	2,144	33,477	34,470	67,947
7. Dry Lake ..	1,704	686	299	719	..	719
8. Gannawarra (previously part of Cohuna)	56,234	34,945	190	21,099	16,392	37,491
9. Kerang ..	70,032	35,338	674	34,020	3,880	37,900
10. Koondrook ..	47,059	30,872	1,475	14,712	47,563	62,275
11. Koyuga ..	..	..	..	..	18,028	18,028
12. Nanneella ..	..	..	..	..	19,715	19,715
13. Nyah ..	..	..	..	..	20,270	20,270
14. Rodney ..	223,268	149,949	4,735	68,584	107,317	175,901
15. Shepparton ..	..	..	..	..	11,734	11,734
16. Swan Hill ..	24,800	19,799	306	4,695	23,142	27,837
17. Tragowel Plains ..	159,848	124,534	444	34,870	379	35,249
18. White Cliffs (including small portion of proposed Waterworks District)	..	..	..	..	40,567	40,567
Totals ..	858,684	575,152	11,484	272,048	429,843	701,891

701,891

D.—NEW WORKS.—COST TO BE APPORTIONED TO DISTRICTS BENEFITED.

1. Goulburn Main Channels (exclusive of Free Headworks)—	This amount is being debited to districts benefited on the basis of their water allotment	139,544
East Goulburn ..		240,645
Waranga Reservoir to Campaspe ..		181,754
Campaspe to Serpentine ..		27,359
Main Distributary Channels ..		
2. Pyke's Creek and Werribee Scheme—	This amount is being debited to districts benefited on the basis of their water allotment	59,810
Pyke's Creek Reservoir ..		19,986
Diverting Weir and Distributary Works ..		380
Lerderberg River Works ..		
		589,302
		80,176

Carried forward £4,319,032

WORKS UNDER CONTROL OF COMMISSION— <i>continued.</i>				Capital Debt at 30th June, 1912 Exclusive of Cost of Loan Flotation.
Brought forward				£ 4,319,032
E.—WATERWORKS TRUSTS DISTRICTS.				
DISTRICTS HELD IN TRUST BY THE COMMISSION.				
The districts of the undermentioned Trusts have been placed under the Commission's control, in pursuance of Section 36 of the <i>Water Act</i> 1909, Section 10 of the <i>Carrum Drainage Works Act</i> 1905, and Section 278 of the <i>Water Act</i> 1905.				
Name of Trust.	Total Advances by State.	Capital written off by Acts 1925 and 1951.	Redemption paid to Treasury.	Capital Debt at 30th June, 1912.
	£	£	£	£
1. Avoca Water Trust	8,709	2,494	652	5,563
2. Carrum Waterworks Trust	25,732	7,732	1,137	16,863
3. Loddon United Waterworks Trust	21,334	1,717	1,326	18,291
	55,775	11,943	3,115	40,717
Grand Total				£ 4,319,032

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, 20,312 square miles, equal to about 13,000,000 acres. The extent of land under irrigated culture, for all kinds of crop, is 215,333 acres, an increase of 72,476 acres, or 50 per cent., over the area irrigated in the previous year. About 14,500 acres have been watered under yearly permits granting authority to divert water from streams throughout the State. The number of separate towns supplied, exclusive of the city of Melbourne and its suburbs, is 135, as shown in the following statement :—

Controlling Authorities.	Number of Town Supplies.	Estimated Population Served.
Commission	29	67,000
Waterworks Trusts	88	144,000
Local Governing bodies	18	69,000
Totals	135	280,000

LANDS UNDER IRRIGATED CULTURE.

The two statements herewith show the extent of Areas under Irrigation for last year in detail, and for the last five years totalled for comparative purposes.

STATEMENT OF THE EXTENT OF IRRIGATION AND OF AREAS OF CROPS WATERED—
YEAR 1911-12.

Name of District.	Area under Irrigation (Acres).							Total.
	Cereals.	Lucerne grown for Pasture and Hay.	Sorghum and Other Annual Fodder Crops.	Pastures.	Vineyards, Orchards and Gardens.	Fallows.	Miscellaneous.	
<i>Supplied from Goulburn State Works.</i>								
Shepparton	116	1,220	84	268	215	160	40	2,103
Rodney	5,297	17,247	720	15,414	4,181	2,482	95	45,436
Deakin	859	2,119	379	4,563	99	1,151	23	9,193
Koyuga	12	217	84	288	9	248	4	862
Nanneella .. .. .	..	398	111	836	31	210	..	1,586
Campaspe .. .. .	..	8	..	38	1	..	..	47
Bamawm .. .. .	..	879	274	1,142	47	414	..	2,756
Tragowel Plains	2,348	122	218	12,023	..	46	..	14,757
Totals	8,632	22,210	1,870	34,572	4,583	4,711	162	76,740
<i>Supplied from Kow Swamp State Works.</i>								
Kerang	4,368	923	2,041	6,434	13	66	50	13,895
Dry Lake .. .. .	..	..	..	370	6	..	..	376
Totals	4,368	923	2,041	6,804	19	66	50	14,271
<i>Supplied from Loddon State Works.</i>								
Boort	2,258	612	870	2,974	71	16	..	6,801
Tragowel Plains	10,836	172	937	2,673	64	..	..	14,682
Totals	13,094	784	1,807	5,647	135	16	..	21,483
<i>Supplied from other State Works.</i>								
Bacchus Marsh .. .. .	..	1,067	71	539	36	9	..	1,722
Campaspe	100	455	8	60	12	..	..	635
Cohuna	1,979	4,103	1,092	12,000	260	283	..	19,717
Gannawarra	2,710	790	1,225	3,656	35	11	..	8,427
Koondrook	7,986	542	889	9,430	104	510	141	19,602
Nyah	615	178	206	176	385	315	148	2,024
Swan Hill	2,250	2,856	1,340	2,149	164	244	26	9,029
Western Wimmera .. .. .	..	30	30	25	938	..	..	1,023
White Cliffs	1,466	450	469	..	2,479	..	..	4,864
Totals	17,106	10,471	5,330	28,035	4,413	1,372	315	67,042
<i>Lands supplied from Kerang North-West Lakes</i>	4,100	621	1,297	7,525	..	..	..	13,543
<i>Lands supplied directly from Kow Swamp State Works</i>	697	1,459	221	513	201	..	33	3,124
First Mildura	840	617	..	..	9,922	..	..	11,379
<i>Supplied from Coliban State Works</i>	132	265	225	327	1,796	154	38	2,937
<i>Private Diversions in Kerang District</i>	3,033	125	161	1,435	..	..	60	4,814
Grand Totals, 1911-12	52,002	37,475	12,952	84,858	21,069	6,319	658	215,333
Grand Totals, 1910-11	37,905	25,432	9,527	49,693	17,606	1,854	840	142,857

COMPARATIVE STATEMENT OF THE EXTENT OF IRRIGATION 1907-8 TO 1911-12.

	Area under Irrigation (Acres).				
	1907-8.	1908-9.	1909-10.	1910-11.	1911-12.
Goulburn State Works	83,776	47,730	41,708	28,849	76,740
Kow Swamp State Works	30,217	25,578	15,097	20,312	14,271
Loddon State Works	27,608	30,177	14,363	26,862	21,483
Other State Works	54,628	42,067	32,624	41,896	67,042
Kerang North-West Lakes	8,838	4,621	4,828	3,496	13,543
Kow Swamp Works (direct)	5,453	4,940	2,807	3,338	3,124
First Mildura Trust Works	10,876	11,900	12,000	12,000	11,379
Coliban State Works	2,191	3,063	2,997	3,160	2,937
Private Works in Kerang District	8,425	6,797	3,347	2,944	4,814
Totals	232,012	176,873	129,771	142,857	215,333

VALUATIONS, RATES, 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 and compulsory irrigation charges made. An estimate of the number of persons dwelling in such districts is also appended.

During the year, the Bamawm, Gannawarra, Koyuga and Nanneella Irrigation and Water Supply Districts were constituted.

In eighteen 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.

In eight districts the Commission made and levied compulsory irrigation charges, details of which are set out hereunder. In Nyah and White Cliffs Districts the charge levied was, in pursuance of the powers given by the *Murray Settlements Act 1907*, fixed for the year at one-half of the estimated full amount required; this charge will be uniformly increased each year so that the full amount will be levied as from 1st July, 1913. In addition to the eight districts referred to, it is intended to levy during the ensuing year the compulsory irrigation charge in the Irrigation and Water Supply Districts of Gannawarra, Koyuga, Tragowel Plains, and the proposed district of Rochester, which is to be formed by the amalgamation of Bamawm, Nanneella, portions of Campaspe and Deakin Irrigation and Water Supply Districts and some outside areas.

A.—VALUATIONS AND RATES.

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 £ made during year ended 30th June, 1912.	Period of Rate.	Estimated Number of Persons dwelling in District.
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IRRIGATION AND WATER SUPPLY DISTRICTS.

	Valuation by Commission. £	Rate		Period of Rate.	Estimated Number of Persons dwelling in District.
		£	s. d.		
1. BACCHUS MARSH ..	11,909	..	.. 1 0	1st July, 1911, to 30th June, 1912	360
2. BAMAWM ..	7,340	..	.. 1 0	" " "	497
3. BOORT ..	10,773	1st Division ..	2 0	" " "	700
		2nd Division ..	1 0	" " "	
4. CAMPASPE ..	11,604	1st Division ..	1 8	" " "	580
		2nd Division ..	0 10	" " "	
		3rd Division ..	0 5	" " "	
5. COHUNA ..	17,372	1st Division ..	2 0	" " "	1,204
		2nd Division ..	1 0	" " "	
6. DEAKIN ..	80,213	1st Division ..	1 0	" " "	4,277
		2nd Division ..	0 6	" " "	
		3rd Division ..	0 3	" " "	
7. DRY LAKE ..	250	(No rate made)		.. ..	10
8. GANNAWARRA ..	11,507	1st Division ..	3 0	1st July, 1911, to 30th June, 1912	578
		2nd Division ..	1 6	" " "	
9. KERANG ..	13,039	1st Division ..	2 6	" " "	821
		2nd Division ..	1 3	" " "	
		3rd Division ..	0 7½	" " "	
10. KOONDROOK ..	11,272	1st Division ..	2 0	" " "	430
		2nd Division ..	1 0	" " "	
11. KOYUGA ..	2,100	..	.. 1 0	" " "	206
12. NANNEELLA ..	3,280	..	.. 1 0	" " "	323

A—VALUATIONS AND RATES—*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 £ made during year ended 30th June, 1912.	Period of Rate.	Estimated Number of Persons dwelling in District.
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IRRIGATION AND WATER SUPPLY DISTRICTS—*continued.*

	Valuation by Commission.	£	s.	d.	Period of Rate.	Estimated Number of Persons dwelling in District.
13. NYAH	859	..	2	0	1st July, 1911, to 30th June, 1912	210
14. RODNEY	109,820	1st Division ..	1	0	" " "	5,000
		2nd Division ..	0	6	" " "	
		3rd Division ..	0	3	" " "	
15. SHEPPARTON ..	3,142	..	1	0	" " "	500
16. SWAN HILL ..	6,592	..	2	0	" " "	500
17. TRAGOWEL PLAINS ..	22,702	1st Division ..	2	2	" " "	1,000
		2nd Division ..	1	1	" " "	
18. WHITE CLIFFS ..	1,704	..	2	0	" " "	772

WATERWORKS DISTRICTS.

	Valuation by Commission.	£	s.	d.	Period of Rate.	Estimated Number of Persons dwelling in District.
19. AXE CREEK ..	1,314	..	2	0	1st July, 1911, to 30th June, 1912	300
20. BIRCHIP	23,891	1st Division ..	2	0	" " "	2,480
		2nd Division ..	1	0	" " "	
		3rd Division ..	0	6	" " "	
21. KARKAROOC.. ..	85,761	1st Division ..	1	6	" " "	3,350
		2nd Division ..	0	9	" " "	
		3rd Division ..	0	4½	" " "	
22. LONG LAKE ..	42,242	1st Division ..	2	3	" " "	1,700
		2nd Division ..	1	1½	" " "	
		3rd Division ..	0	6¾	" " "	
23. SEA LAKE	64,776	1st Division ..	2	0	" " "	2,500
		2nd Division ..	1	0	" " "	
		3rd Division ..	0	6	" " "	
24. TYNTYNDER ..	12,390	1st Division ..	2	9	" " "	600
		2nd Division ..	1	4½	" " "	
		3rd Division ..	0	8¼	" " "	
25. WESTERN WIMMERA ..	242,104	1st Division ..	1	0	" " "	10,250
		2nd Division ..	0	6	" " "	
		3rd Division ..	0	3	" " "	
26. WIMMERA UNITED ..	256,855	1st Division ..	1	0	" " "	8,900
		2nd Division ..	0	6	" " "	
		3rd Division ..	0	3	" " "	
27. WYCHEPROOF ..	41,282	1st Division ..	2	0	" " "	2,100
		2nd Division ..	1	0	" " "	
		3rd Division ..	0	6	" " "	

A.—VALUATION AND RATES—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 £ made during year ended 30th June, 1912.	Period of Rate.	Estimated Number of Persons dwelling in District.
URBAN DIVISIONS AND DISTRICTS.				
	Municipal Valuation.			
	£	s. d.		
28. BACCHUS MARSH	6,278	.. .. 1 6	1st July, 1911, to 30th June, 1912	1,300
29. BIRCHIP	5,244	.. .. 2 6	" " "	900
30. DIMBOOLA	5,173	.. .. 1 9	" " "	750
31. LAKE BOGA	1,251	.. .. 3 0	" " "	270
32. MINYIP	2,482	.. .. 3 0	" " "	500
33. NATIMUK	2,316	.. .. 1 6	" " "	420
34. RAINBOW	6,650	.. .. 2 3	" " "	750
35. RUPANYUP	1,871	.. .. 3 0	" " "	450
36. SEA LAKE	2,174	.. .. 3 0	" " "	500
37. WONTHAGGI	20,077	.. .. 1 9	" " "	4,500
38. WYCHEPROOF	3,078	.. .. 2 6	" " "	700
COLIBAN SYSTEM.				
		s. d.		
39. COLIBAN	317,894	On Valuation 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, 1911, to 30th June, 1912 " " " " " " " " "	66,000
WATERWORKS TRUSTS.				
		s. d.		
40. AVOCA	31,649	.. .. 0 4½	1st January, 1912, to 31st December, 1912	1,600
41. CARRUM	13,048	1st Division .. 4 0 2nd Division .. 1 6 3rd Division .. 0 3 4th Division .. 0 6	" " " " " " " " " " " "	700
	Valuation by Commission.			
	£			
42. LODDON UNITED	75,632	1st Division .. 0 9 2nd Division .. 0 4½ 3rd Division .. 0 2¼	" " " " " " " " "	2,400

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.
BACCHUS MARSH	6,742	2,160	2,160	20s.	1st October, 1911, to 30th April, 1912
COHUNA	32,541	23,632	23,632	5s.	" " "
KOONDRUCK	48,701	14,342	14,342	5s.	" " "
RODNEY	265,025	180,070	46,280	5s.	" " "
SHEPPARTON	3,436	3,436	3,436	5s.	" " "
SWAN HILL	13,579	11,050	11,050	5s.	" " "
NYAH	2,924	2,414	6,016	6s. (one-half charge)	1st August, 1911, to 30th April, 1912
WHITE CLIFFS	5,873	5,290	13,190	6s. (one-half charge)	1st August, 1911, to 30th April, 1912

CONTRACTS.

STATEMENT OF CONTRACTS ENTERED INTO DURING THE YEAR ENDED 30TH JUNE, 1912.

No.	Name of Contractor.	Work or Supply.	Amount (Loan and Vote).		
			£	s.	d.
757	Stephen R. Mansell	Main Stock and Domestic Channel, White Cliffs	283	7	6
758	Stephen R. Mansell	Main Stock and Domestic Channel, White Cliffs	275	10	5
759	A. J. Fisher	Gorya Channel, Karkaroc	167	7	6
760	A. J. Fisher	Gorya Channel, Karkaroc	155	12	1
761	A. Vinnicombe	26-Mile Tank Channel, Tyntynder	123	5	0
762	Stewarts and Lloyds	W. I. Tubes, &c., Jeparit and Beulah	384	7	3
764	E. H. Jones	Cannie Channel, Long Lake	107	5	0
765	W. Munn and E. G. Traeger	Main Domestic and Supply Channel, White Cliffs	238	16	0
766	Bennett, Wood, Roche Ppty. Ltd.	500 Veeder Cyclometers	83	5	11
767	Alex. Rangott	Koro-Ganeit Channel, Tyntynder	118	0	0
769	R. Guilmartin	Cannie Channel, Long Lake	128	5	0
770	J. and M. McGuiness	Portion Waranga-Mallee Channel, and Flood Channel, Bullock Creek	230	11	6
771	A. Vinnicombe	26-Mile Tank Channel, Tyntynder	69	0	0
773	H. W. L. Tucker	Beulah Tank Channel, Karkaroc	384	0	10
774	Thos. Hatcher	Davidson's Channel, Karkaroc	152	5	10
775	Munn and Traeger	Wargan Channel, White Cliffs	275	8	0
776	Munn and Traeger	Wargan Channel, White Cliffs	127	0	11
777	John Danks and Son Ppty. Ltd.	Cast-iron pipes, &c., Koondrook	819	3	6
778	F. J. McMahon	Nyrraby Channel, Tyntynder	38	15	0
779	M. J. Phyland (trading as Phyland and Harris)	Korrak Channel, Long Lake	64	15	0
780	W. G. Spencer	Korrak Channel, Long Lake	102	18	4
781	R. Guilmartin	Cannie Channel, Long Lake	75	5	2
782	S. Stevens	Adams Channel, Cohuna	373	16	9
783	R. Heath	North-Eastern Channel, Tyntynder	54	3	4
784	R. Heath	North-Eastern Channel, Tyntynder	60	19	2
785	I. S. Drape	Contour Survey, Lake Meering District	63	16	10
787	P. Lavery	Nungah Channel, Karkaroc	410	5	0
788	H. B. Irwin	Beulah West Channel, Karkaroc	167	0	0
789	H. B. Irwin	Beulah West Channel, Karkaroc	144	0	0
794	Thos. W. Thompson	Redgum Timber, Tongala	116	13	6
795	Alex. Rangott	Gnarwee Channel, Long Lake	114	0	5
796	Joseph Nixon and Sons	Cast-iron Pipes, &c., Coliban	517	9	1
797	Joseph Nixon and Sons	Cast-iron Pipes, &c., Coliban	63	8	4
799	W. G. Spencer	Gibbs Channel, Sea Lake	119	19	7
800	M. J. Phyland	Hernon's Channel, Sea Lake	128	12	11
801	M. J. Phyland	Hernon's Channel, Sea Lake	52	16	3
802	Ernest H. Hall	Cannie Channel, Long Lake	70	12	6
803	D. W. Connell	Chillingollah Channel, Tyntynder	114	11	8
804	Determined.				
806	F. Wainwright and J. Larkin	Binn's Channel, Sea Lake	142	15	0
807	F. Wainwright	Binn's Channel, Sea Lake	123	5	10
808	Determined.				
809	Wm. Crothers	Main Central Channel, Wimmera-Mallee	237	5	0
810	J. E. A. Janetzki and O. J. Pianta	Main Central Channel, Wimmera-Mallee	303	6	6
811	A. E. Cameron	Main Central Channel, Wimmera-Mallee	1,342	19	8
812	D. H. Pickering and E. A. Pickering	Nyrraby Channel, Tyntynder	128	0	0
813	F. J. Storey	400 Channel Meter Wheels	800	0	0
814	A. J. Fisher	Gibb's Channel, Sea Lake	129	0	0
815	A. J. Fisher	Long Plain Channel, Sea Lake	270	13	5
816	H. W. L. Tucker	Brickle Channel, Wimmera	1,141	5	10
817	Harold Adams	North-Eastern Channel, Tyntynder	39	2	4
818	Ernest Schultz	Gas Engine and Producer Gas Plant	337	0	0
819	Welch Perrin and Co.	Centrifugal Pump	38	0	0
820	M. Corrigan	Firewood, Sea Lake	76	2	6
821	Joseph Nixon and Sons	Cast Iron Pipes, &c., Wonthaggi	831	5	2
822	H. Walker	Firewood, White Cliffs	525	0	0
823	M. Malone	Shepparton No. 1 Branch Channel	652	0	0
824	James J. Griffiths	Shepparton No. 1 Branch Channel	399	8	2
825	Thomas Maloney	Distributary Channel, Cohuna	255	18	9
		Carried forward	14,748	19	3

CONTRACTS ENTERED INTO DURING THE YEAR ENDED 30TH JUNE, 1912—*continued.*

No.	Name of Contractor.	Work or Supply.	Amount (Loan and Vote).		
			£	s.	d.
		Brought forward	14,748	19	3
826	Ernest Greenway	Firewood, Kroondook	116	13	4
832	F. J. McMahon	Southern Low Level Channel, Tyntynder	160	17	6
833	E. Fitzgerald	Chillingollah Channel, Tyntynder	130	7	6
834	E. Fitzgerald	Chillingollah Channel, Tyntynder	124	5	0
835	W. Schmedcs	Firewood, Maldon	233	6	8
837	A. J. Harman	Firewood, Koondrook	125	5	0
838	A. J. Fisher	Whroo West Channel, Sea Lake	138	13	4
839	A. J. Fisher	Whroo West Channel, Sea Lake	106	12	3
840	A. Kityea	Beulah West Channel, Karkaroc	133	15	0
841	Joseph Nixon and Sons	Cast Iron Pipes, &c., Coliban	80	5	4
842	Isaac Selby Drape	Survey <i>re</i> Flooding, Goulburn District	133	0	0
843	Bennett, Wood, Roche Pty., Ltd.	360 Veeder Cyclometers	55	10	0
844	A. Chandler	Nullawil Channel, Sea Lake	133	0	0
845	A. Chandler	Kalpienung Channel, Sea Lake	124	0	0
846	Jeremiah Hogan	Connelly's Channel, Sea Lake	136	15	5
847	Jeremiah Hogan	Connelly's Channel, Sea Lake	118	15	0
848	Jeremiah Hogan	Jil Jil Channel, Sea Lake	167	15	0
853	Thomas E. Poulton	Joop Channel, Wimmera	171	0	0
854	S. M. Frankel	Joop Channel, Wimmera	185	5	0
857	M. Connelly	Flood Channel and Levee Banks, Goulburn District	1,309	13	9
858	H. Storer (trading as C. T. and H. Storer)	Warmur Channel, Sea Lake	78	0	0
859	A. and W. Rangott	Southern Low Level Channel, Tyntynder	158	3	4
860	A. and W. Rangott	Southern Low Level Channel, Tyntynder	199	12	1
861	W. H. Lewis	Firewood, Nyah	162	10	0
862	G. Long	Firewood, Nyah	81	5	0
863	J. Nicholas	Firewood, Nyah	81	5	0
868	M. Meany and Jno. Anderson	Joop Channel, Western Wimmera	164	0	0
869	M. Meany and Jno. Anderson	Joop Channel, Western Wimmera	137	5	0
872	E. A. Pickering (trading as Pickering Bros.)	Chillingollah Channel, Tyntynder	160	8	4
875	H. W. L. Tucker	Storage Tanks, Woomelang	1,637	10	0
876	Harriet Kirk and Alfred Chandler	Nullawil Channel, Sea Lake	148	0	0
877	Robert Gilmour	Gould's Channel, Sea Lake	61	15	0
878	F. Carmichael	Nullawil Channel, Sea Lake	131	6	3
879	F. Carmichael	Nullawil Channel, Sea Lake	161	11	3
881	H. E. Chenoweth	Joop Channel, Western Wimmera	160	15	0
882	H. E. Chenoweth	Joop Channel, Western Wimmera	153	5	0
883	H. E. Chenoweth	Joop Channel, Western Wimmera	148	0	0
884	Ernest H. Hall	West Lalbert Channel, Long Lake	168	17	6
885	Wm. Leslie Chaplin and Robert John Selkraig	Joop Channel, Western Wimmera	146	15	0
886	Tressillian Chaplin	Ellam Channel, Western Wimmera	118	15	0
887	Fred. Harris	Hernon's Channel, Sea Lake	140	0	0
888	A. Wilkinson	Dennyng Channel, Karkaroc	192	10	0
889	G. A. Stevenson	Dennyng Channel, Karkaroc	173	5	0
890	W. J. Renfrey	Dennyng Channel, Karkaroc	175	5	5
891	The Australian Portland Cement Co. Pty. Ltd.	Portland Cement (2,000 casks)	1,275	0	0
892	J. Lampard	Antwerp Channel, Western Wimmera	114	10	0
893	J. Lampard	Antwerp Channel, Western Wimmera	157	0	0
894	J. Mellington	Nungah Channel, Karkaroc	135	0	0
895	J. Mellington	Nungah Channel, Karkaroc	136	5	0
896	S. H. McLean	Dennyng Channel, Karkaroc	181	18	0
897	W. E. Still	Dennyng Channel, Karkaroc	275	0	0
901	G. Long	Firewood, Nyah	162	10	0
902	J. W. Currie	Firewood, Nyah	162	10	0
903	E. J. Glowrey	Tyrrell West Channel, Sea Lake	203	10	0
904	E. J. Glowrey	Tyrrell West Channel, Sea Lake	185	5	0
905	S. J. Englefield	Pier-Millan Channel, Sea Lake	202	17	4
906	S. J. Englefield	Pier-Millan Channel, Sea Lake	234	7	6
907	H. G. Cramer	Wewin Channel, Tyntynder	129	4	2
		Carried forward	27,128	10	6

CONTRACTS ENTERED INTO DURING THE YEAR ENDED 30TH JUNE, 1912—*continued.*

No.	Name of Contractor.	Work or Supply.	Amount (Loan and Vote).		
			£	s.	d.
		Brought forward	27,128	10	6
908	H. G. Cramer	Wewin Channel, Tyntynder	120	9	2
909	W. R. Kiley	Wewin Channel, Tyntynder	140	5	10
910	M. Malone	Spur Channel, Rodney	75	19	6
914	Alex. Rangott and W. Rangott	Southern Low Level Channel, Tyntynder	186	6	8
916	V. Becker	Nungah Channel, Karkaroc	132	8	9
917	V. Becker	Nungah Channel, Karkaroc	110	18	4
918	C. G. Lear	Beulah West Channel, Karkaroc	137	15	0
919	V. Becker	Beulah West Channel, Karkaroc	132	5	0
920	V. Becker	Beulah West Channel, Karkaroc	126	15	0
921	V. Becker	Beulah West Channel, Karkaroc	86	0	0
922	W. H. Lewis	Firewood, Nyah	487	10	0
923	H. Walker	Firewood, White Cliffs	1,800	0	0
924	J. Petty	Firewood, White Cliffs	287	10	0
925	J. Spellacy	Firewood, White Cliffs	562	10	0
926	F. O. Wallin	Firewood, Swan Hill	593	15	0
927	F. O. Wallin	Firewood, Cohuna	400	0	0
929	D. Cloonan	Pier-Millan Channel, Sea Lake	151	0	10
930	D. Cloonan	Pier-Millan Channel, Sea Lake	167	3	9
931	A. J. Frongerud	Caretaker's Quarters, Wonthaggi	260	0	0
932	P. Lavery	Dennyng Channel, Karkaroc	204	0	0
933	F. J. Storey	400 Channel Meter Wheels	852	16	8
934	J. Nicholas	Firewood, Nyah	81	5	0
936	A. McInnes	Firewood, Cohuna	525	0	0
937	J. J. Mannix	Firewood, Cohuna	250	0	0
938	D. J. Blair	Firewood, Cohuna	393	15	0
939	Andrew Steel	Springfield Channel, Sea Lake	131	17	0
941	J. Greenway	Firewood, Koondrook	131	5	0
942	R. L. Fulton and Co.	Firewood, Koondrook	143	15	0
943	W. H. Cassidy	Firewood, Koondrook	131	5	0
944	A. J. Harman	Firewood, Koondrook	137	10	0
		Total	36,069	12	0

STATEMENT OF CONTRACTS ENTERED INTO DURING THE YEAR ENDED 30TH JUNE, 1912,
IN CONNEXION WITH BORING FOR WATER, CONSTRUCTION OF PUBLIC TANKS, AND
CLEARING AND FORMING ROADS IN THE MALLEE. THE EXPENDITURE ON
THESE WORKS, WHICH WERE TRANSFERRED TO THE COMMISSION ON 1ST JULY, 1911,
IS MET BY EITHER THE LANDS DEPARTMENT OR THE PUBLIC WORKS DEPARTMENT.

No.	Name of Contractor.	Work or Supply.	Amount (Loan and Vote).		
			£	s.	d.
763	J. T. Gregor	Stub Tank, Boulka	204	17	2
768	G. P. Conlon	Five Bore Holes, Parishes of Boinka and Worooa	1,706	5	0
772	Warrin and Torney	Cockatoo Tank, Parish of Ouyen, Mildura Line Settlement	100	0	0
786	The Atlas Coy. of Engineers Pty. Ltd.	Portable Boring Plant	556	6	9
790	Clifford Jenkin	Clearing Roads, Parish of Boinka	27	15	6
791	James Jones	Clearing Roads, Parish of Underbool	35	15	0
792	Henry Jones	Clearing Roads, Parish of Underbool	38	15	6
793	Ebenezer Jones	Clearing Roads, Parish of Manpy	18	3	0
798	A. S. Constable and Wm. South- gate	Clearing Roads, Parish of Nyang	91	10	0
827	J. B. Anderson	Clearing Roads, Parishes Boinka and Worooa	68	17	11
828	Jas. A. Hoctor	Clearing Roads, Parish Boinka	26	17	0
		Carried forward	2,875	2	10

STATEMENT OF CONTRACTS ENTERED INTO DURING THE YEAR ENDED 30TH JUNE,
1912, IN CONNEXION WITH BORING FOR WATER, ETC.—*continued.*

No.	Name of Contractor.	Work or Supply.	Amount (Loan and Vote).		
			£	s.	d.
		Brought forward	2,875	2	10
829	Jas. Warrin	Clearing Roads, Parish Boinka	194	2	0
830	W. N. Brodie	Clearing Roads, Parish Worooa	62	16	9
831	Bernard B. Walters	Clearing Roads, Parishes Kia and Ouyen	206	9	4
836	The Goldfields Diamond Drilling Coy. Ltd.	Casing for Boring, North Tyrrell	334	7	2
849	Ebenezer Jones	Clearing Roads, Parish Manpy	19	7	9
850	Webb Bros. and Co.	Five Windmills and Towers	138	13	9
851	John Danks and Son, Pty. Ltd.	Piping, Fittings, &c., Underbool	47	9	0
852	Golden City Implement Co.,	Five Tank Stands, Troughs, &c., Underbool	111	9	5
855	Archibald Alexander Peers	Five Bore Holes, Parish Mulera	997	10	0
856	Archibald Alexander Peers	Four Bore Holes, Parishes Tyalla and Duddo	798	0	0
864	John Healey	Clearing Roads, Parishes Kia, Tiega, &c.	199	10	2
865	J. Roberts	Clearing Roads, Parish Worooa	57	10	4
866	Minocks Bros.	Clearing Roads, Parishes Danyo, Tutye, &c.	586	4	0
867	J. W. Mew	Clearing Roads, Parish Nyang	186	7	6
870	James Garner	Clearing Roads, Parish Underbool	16	14	4
871	Thos. C. Muir	Clearing Roads, Parish Boinka	27	9	0
873	W. W. Charnstrom	Clearing Roads, Parish Danyo	120	0	0
874	Wm. Travis	Clearing Roads, Parishes Bumurouk and Tutye	583	6	8
880	A. Stone	Clearing Roads, Parishes Underbool and Manpy	146	19	7
898	A. H. Slade	Clearing Roads, Parish Gunamalary	36	17	11
899	William Gardner	Four Bore Holes, Parishes Danyo, Tutye, &c.,	840	0	0
900	Rack, Windmill and Engineering Coy.	Fifteen Tank Stands, Troughs, &c.	240	0	0
911	J. T. Gregor	Paignie Tank, Ouyen District	253	7	0
913	Joseph Torney	Yatpool Railway Tank and Yatpool Plains Tank	341	13	4
915	Stewarts and Lloyds	Piping, Fittings, &c., Boinka	303	13	8
940	Webb Bros. and Co.	Fifteen Windmills and Towers, Boinka	371	1	3
		Total	10,096	2	9

In addition to the works carried out under contracts a large extent of channel work was, as in last year, carried out as piece work at current rates. The expenditure under this system, which was adopted owing to the difficulty of obtaining tenders, amounted to about £9,000 for the year.

WORKS CARRIED ON OR COMPLETED DURING THE YEAR
ENDED 30TH JUNE, 1912.

COLIBAN DISTRICT.

A sum of £1,300 was spent in pipe reticulation improvements at Bendigo, Eaglehawk, Castlemaine, and Harcourt, and £200 in construction of a branch channel at Epsom to supply settlers in the Bendigo West settlement. Extensive pipe-cleaning operations, resulting in much improved services, were carried out at Bendigo, Castlemaine, and Maldon.

The separate waterworks district of Axe Creek, comprising the lands commanded by the Axe Creek Race, is now yielding a satisfactory financial return. It is proposed to levy rates in similar separate districts in the Coliban area when the revenue from lands therein is not sufficient to meet interest on cost, and maintenance, of races constructed for their benefit.

IRRIGATION AND WATER SUPPLY DISTRICTS.

RODNEY DISTRICT.

The new works carried out during the year involved an expenditure of some £4,000, and consisted principally of distributary channels and outlets required to supply water allotted as water rights to irrigable lands.

SWAN HILL DISTRICT.

The works of this district were added to by the remodelling of portion of the old channel system and the construction of new channels and structures rendered necessary by the subdivision of estates by the Lands Purchase Board.

DISTRICTS ADMINISTERED FROM KERANG CENTRE.

The Koondrook and Myall, and Benjeroop and Murrabit Irrigation and Water Supply Districts, together with a small portion of Cohuna, and an area lying between the Koondrook and Myall, and Cohuna Districts, not previously included in any district, have this year been united into one district named Koondrook. Water rights were allotted to each holding in the district, and the compulsory irrigation charge was imposed during the year. The provision of measuring outlets throughout the district was pushed on and practically completed. Several new channels were constructed, and good progress made with remodelling old channels and providing new structures. The remodelling still required will be carried out as soon as possible, so as to ensure a more effective delivery of water.

In the Kerang District works have been chiefly confined to ordinary maintenance and renewals of structures. Progress was made with cleaning out channels during the autumn.

The Macorna Channel was dried off in March, and silt removed and banks strengthened in the neighbourhood of the Pyramid flume, thus repairing damages sustained from floods during recent years.

The erection of new reinforced concrete head-works at Torrumbarry for the Kow Swamp works was commenced, and good progress has been made.

In the Kerang North-west Lakes area works have been confined to maintenance and repairs.

DISTRICTS ADMINISTERED FROM COHUNA CENTRE.

As indicated in last report, the old Irrigation and Water Supply District of Cohuna has been subdivided into the two districts of Cohuna and Gannawarra. An office has been established at Cohuna Township under the control of Mr. G. C. Kreutzer, District Engineer and Secretary.

During the year a large number of channels have been remodelled, and some minor channel extensions and necessary maintenance works were carried out.

In the Cohuna District a compulsory irrigation charge was levied, and it is proposed next year to introduce a similar charge in the Gannawarra District.

DISTRICTS ADMINISTERED FROM LODDON CENTRE.

These are the Tragowel Plains District on the east side of Loddon River and the Boort District comprising the former districts of East Boort, Leaghur and Meering, North Boort, Twelve Mile and Wandella, almost wholly on the west side.

During the year the Waranga Western Channel has been completed to its terminus, the Serpentine Creek, and the Tragowel Plains District now receives its main supply from the Goulburn River System.

A new reinforced concrete head sluice has been constructed on the Kinypanial Creek, controlling the supplies to the North Boort and East Boort Channels.

The preparation of a register of lands in Tragowel Plains District to be used as the basis for a compulsory irrigation charge has been commenced, and such a charge will be levied next year. Active steps are being taken to remodel channels and provide the necessary outlets with meters for measurement of water.

BAMAWM AND NANNEELLA DISTRICTS.

These districts were constituted on 1st July, 1911, and water for irrigation was available early in the season.

Construction works have been pushed on vigorously during the last twelve months, and all necessary maintenance works have been carried out.

These two districts will with other areas be included in a new district under the name of Rochester.

CAMPASPE DISTRICT.

This district will be considerably reduced by the inclusion in the proposed new Rochester District of the portion north of the Waranga Western Channel. The supply from the Campaspe River which formerly had to be distributed over the whole area will now be available for that portion south of the Waranga Western Channel. Necessary maintenance works have been carried out in the district.

DEAKIN DISTRICT.

The area of this district was considerably reduced by the excision of the portions now comprised within the districts of Koyuga and Nanneella. It is proposed to excise a further portion to form the district of Tongala. Necessary maintenance works were carried out during the year in the district.

KOYUGA DISTRICT.

The new Irrigation and Water Supply District of Koyuga, formerly part of Deakin District, was constituted during the year. Thirty-five miles of new channelling have been carried out, and the district is now fully served.

BACCHUS MARSH—WERRIBEE SCHEME.

Pyke's Creek Reservoir has been completed and filled. Its capacity is 14,850 acre feet, and maximum depth 90 feet.

At Bacchus Marsh a main supply channel has been constructed from Maddingley syphon to the right bank of Lerderderg River at Darley. A suspension bridge has been constructed at this point for conveyance of water across the river to connect with a concrete and earth channel for the supply of the East Lerderderg irrigable lands. Branch channels have been connected to the Darley Channel, so as to link up the old systems and provide for the irrigation of the flat lands between the Lerderderg and Werribee Rivers.

Channel extensions have also been carried out to serve the irrigable land on both sides of the Parwan Creek to its intersection with the Werribee River. The new works will enable the irrigable area to be increased from 600 acres to about 3,300 acres. Water rights have been apportioned, and a compulsory irrigation charge levied in respect of about 2,000 acres south and west of the Lerderderg River. The balance of the irrigable area, about 1,300 acres, will be dealt with in like manner next year.

At Werribee the channels for domestic and stock supply for the non-irrigable portion of the Werribee Estate have been completed, also works for the irrigation of about 650 acres of the irrigable portion. Surveys are in progress to enable the necessary works to be undertaken for the irrigation of a further area.

WHITE CLIFFS DISTRICT.

Work during the year consisted of fencing channel reserves, building extra structures and outlets, lining and constructing channels in the irrigation area. The domestic and stock supply channels in the back country have been extended, the main channel now reaching out 18 miles 20 chains, and the Wargan Channel 15 miles 36 chains.

It is intended to alter the name of this district from White Cliffs to Merbein.

NYAH DISTRICT.

The pumping plant is working satisfactorily for the supply of water for irrigation in the district. It is also being utilized with good results for the supply of the adjoining Tyntynder Waterworks District. All necessary maintenance works have been carried out.

WATERWORKS DISTRICTS.

LONG LAKE DISTRICT.

Last year an area of about 120 square miles of the Long Lake Waterworks District was transferred to the Tyntynder Waterworks District. Operations in the remaining area were chiefly confined to the completion of existing contracts and the carrying out of works to supply the high country known as Cannie Ridge. Contracts were let during the year for 5 miles of minor channels. It is proposed to continue the channel system beyond the boundaries of the existing district, southwards past Cannie, and south-westerly to Lalbert Creek, and, later, to extend the district so as to embrace these additional areas.

TYNTYNDER DISTRICT.

Good progress has been made during the year with the construction of channels in this district, notwithstanding the difficulty experienced in letting contracts in the outlying portions. Tenders have been accepted for 40 miles of channels. It is proposed to extend the district in a westerly and south-westerly direction, and surveys for channels to serve the extended areas are now in hand.

WIMMERA WATER SUPPLY.

An idea of the magnitude and great importance of the Wimmera Supply system, together with the allied Sea Lake system which the Commission is carrying out, may be gathered from the fact that a complete domestic and stock service to an area of some 5,300 square miles of dependent country is now almost completed, and that arrangements are being made to extend similar services to new districts with a combined area of about 500 square miles, which are to be shortly constituted north of the present Karkaroc and Sea Lake Districts. The prosperity of this large area is altogether dependent upon a full and reliable water supply being provided at a reasonable cost. Over this large area a complete system of main and branch channels to convey water from headworks to holdings was laid down, and this is now well advanced in construction. As an instance of the extent of reticulation, water from Lake Lonsdale has to travel about 160 miles to reach in each case the present terminals of the Nungah, Gorya, Tyrrell West, and Perrit Channels, and still further extensions of these channels northward are being surveyed.

To secure the full benefits of this scheme the active co-operation of all settlers in providing suitable tanks is essential, and special efforts are to be made to induce them to carry out these works. Settlers will have to recognise that only by such storages and by the adoption of a system whereby the channels are run only during the cool months of the year will they be able to obtain an ample supply at reasonable cost.

Since its inception the Commission has spent upon the various Wimmera and Sea Lake district works—main channels, diversion weirs, new branch channels, and improvements to existing ones, reticulated town supplies, and minor works—the sum of £176,000, and a further expenditure of £80,000 upon similar works is contemplated during the coming year in these districts.

The whole of the scheme of works in these districts, while not burdensome on settlers, has been carried out on a financial basis satisfactory to the State.

WESTERN WIMMERA AND WIMMERA UNITED DISTRICTS.

During the year steady progress has been made with the main supply channel system for the diversion northwards of the waters from the Lake Lonsdale storage and the Wimmera River. The main central channel is now completed for some 45 miles to No. 1 Weir on the Yarriambiack Creek. The use of the Little Wimmera and Wimmera Rivers and of the Yarriambiack Creek, south of No. 1 Weir, as conveyors of regulated flows will, therefore, be abandoned. A temporary connexion to the Sea Lake Channel system, by means of the East Laen Channel, was made during the year, pending a permanent main supply channel connexion through the proposed regulator on the Avon.

The West Karkaroc Main Channel (Brickle Channel) is completed, and, until the completion of the Western Main Channel, a good supply can be obtained from the Yarriambiack Creek. The construction of the main supply channel system will be continued, so that the present wasteful system of distribution may be avoided. A large amount of channel reconstruction work has been done in both districts, and will be continued until the entire channel systems are in good running order.

A scheme for a reticulated supply to the township of Watchem, at an estimated cost of £1,900, has been prepared and will if approved by residents be carried out.

The scheme for the supply of Jeparit township is now complete, and is in good working order.

The extensive alterations and improvements, necessary for the proper supply to the township of Minyip, are now practically finished, and those to the Rupanyup township supply will be undertaken next year.

BIRCHIP, SEA LAKE, AND WYCHEPROOF DISTRICTS.

Progress has been made with extensions of the channel system of these districts, tenders having been accepted for the construction of 60 miles of branch channels, and surveys have been made for further proposed extensions of some 40 miles.

Good progress has been made with the works which will provide a reticulated supply to the township of Woomelang. These consist of twin earthen storage tanks, holding 90,000 cubic yards, concrete stand-pipes with a total capacity of 200,000 gallons, pumping plant, rising main, and reticulation.

Proposals are now being investigated for providing reticulated supplies to the small townships of Kaneira and Berriwillock. Plans for extensive improvements to the Sea Lake town supply are also being prepared. During the exceptionally dry summer of this year a pumping plant was installed at Lake Buloke, for the purpose of providing an emergency supply. This plant, which has a capacity of about 1,000 cubic feet per minute, will be retained for supplementary work until the main channel connexion to the Wimmera-Lonsdale scheme is complete.

Investigations of the proposal to use Batyo Catyo Swamp, in the parish of Rich Avon East, for the regulation of the Avon River, have shown that a regulator with the useful working volume of some 4,600 acre feet, can be established there. The scheme, including a diversion weir on the river, inlet channel, with a capacity of 400 cubic feet per second, and works at the regulator, will cost between £5,000 and £6,000. As the regulator will hold a volume equal to at least two-thirds of the total requirements of the districts dependent upon the Avon River, its great utility in connexion with such an intermittent stream as the Avon will be apparent. By this means it is anticipated that, except in very extraordinary years, it will not be necessary to draw on Lake Lonsdale storage to any extent for the districts now supplied from the Avon River. It is proposed also to connect the regulator with the Main Central Supply Channel, from the Wimmera River at Glenorchy, so that the regulator may also be used to store part of the surplus flows from the Wimmera River.

KARKAROOC DISTRICT.

The work of extending the channel system and re-organizing the existing channels is now well advanced.

Tenders were accepted during the year for 65 miles of new channels. Surveys have also been made for further proposed channels totalling some 80 miles, some of which will extend outside the district northerly towards the Ouyen-Murrayville railway line, where an extension of area is desirable. Information obtained seems to show it will be practicable at a reasonable cost to command, later on, the Ouyen district east of Walpeup, should such be desirable.

The Commission's works for the supply of the township of Beulah are complete, and only await the installation by the Karkaroc Shire Council of the electric plant, from which power is to be supplied to the Commission's pumps.

Arrangements have been made to take over from the Karkaroc Shire Council, from 1st July, 1912, the works for the supply of the township of Hopetoun. Plans have been prepared for extensive improvements to the existing scheme, costing some

£3,750. They consist of twin earthen storage tanks, to hold 80,000 cubic yards, concrete stand-pipe with a capacity of 120,000 gallons, rising main and reticulation. The pumping plant will be electrically driven, the power being supplied by the Karkaroc Shire Council.

A scheme for a reticulated supply to the township of Lascelles is now being investigated.

WONTHAGGI DISTRICT.

The reservoir of 420 million gallons at Lance Creek was completed last summer, and is full. Further pipe reticulations have been carried out, and the town is now fully supplied.

NORTHERN MALLEE WATER SUPPLY.

At the request of the Government the Commission has taken over from the Department of Agriculture the work of boring for and storing water in the Mallee country north of the township of Ouyen. The general outline of the work is set out in last report. This year the expenditure was £16,000, including £7,000 for exploratory boring. The balance available for further works is £28,500.

TANKS : OUYEN, MILDURA CONCESSION, AND NORTH TYRRELL DISTRICTS.

Two tanks near Ouyen, Stub Tank and Cockatoo Tank, 5,000 and 2,000 cubic yards' capacity respectively, were completed during the year. Twenty tanks are now in progress, having a total capacity of 200,000 cubic yards. Two—Yellumjip and Walpeup—will each be of 40,000 cubic yards' capacity. Considerable work has been done in enlarging, cleaning out, and fencing off existing tanks.

BORING FOR WATER.

Three exploratory boring parties have been at work during the year at Cow Plains, Mildura Concession, and North Tyrrell. The boring party in the Cow Plains district has completed five bores during the year—Sunset, Sunset Springs, Big Billy, Tyalla, and Koonda. Only in the three last named was useful water found. The bores at Sunset and Sunset Springs were abandoned at 700 feet—the boring capacity of the machine employed. The work done, however, was sufficient to prove that the supplies struck further south did not exist there. The plant has now been shifted to further define the eastern margin of the fresh water in the Nyang District.

Work has progressed slowly at the Yatpool bore, Mildura Concession Area. Great difficulties were encountered through running drifts and swelling clays, but these have been successfully overcome. Indications at the present depth, 1,200 feet, show that the bedrock is being reached. Salt water was met with at intervals all through, rising in each case to about the same level, 60 feet from the surface.

At the North Tyrrell (Daytrap) Bore, work was commenced during the year. A depth of 450 feet, through running clays and drifts containing salt water, was reached.

Seven additional bores for the use of settlers have been sunk in the area known to be water-bearing, and have been suitably equipped. Contracts are in progress for nineteen more. In all cases water has been struck at the depth and of the quality anticipated.

ROAD CLEARING.

Notwithstanding that there was some difficulty in obtaining contractors to carry out the works, some 300 miles of roads were grubbed during the year, and about 800 miles are now in progress.

FARMERS' TANKS.

The Government, with the object of assisting new settlers, made £30,000 available for advances, on easy terms, to farmers to provide tanks on their own land in the area north of Ouyen.

The provision of such tanks is essential to the success of every settler, and it is hoped that this action of the Government will result in a great increase in the number of private storages.

GOULBURN MAIN CHANNELS AND DISTRIBUTARIES.

The Western main channel from Waranga Reservoir was brought into use at the commencement of the irrigation season for the supply of the Nanneella and Bamawm settlements, and early in February for the supply of the Tragowel Plains Irrigation and Water Supply District.

Extensions of distributary channels for the supply of additional areas as follows are in hand, and, for the greater part, will be in use next season :—

Shepparton	..	..	..	..	6,000 acres
Tongala	..	..	..	..	16,000 „
Nanneella	..	..	..	..	3,500 „
Bamawm	..	..	..	..	4,500 „

The total expenditure for the year on Goulburn main channels and distributary works was £80,000.

DRAINAGE SCHEMES.

Inspections have been made of drainage proposals at Moe, Koo-wee-rup, Carag Carag, and Cardinia Creek. Surveys have also been made at Big Swamp, Willaura, and at Strathdownie near Casterton. As arrangements were being made in several of the districts for works to be carried out otherwise than by the Commission no Drainage Districts have as yet been formed under the provisions of the Water Acts.

RIVER GAUGING.

As provided by Section 38 of the *Water Act* 1905, the work of gauging and recording the flow of the rivers and streams in this State has been continued. The supply stored in reservoirs and the volumes used therefrom have also been recorded and published weekly. The total number of gauging stations in the State is now forty-six.

During the year the field observation and office work connected with these gaugings have been advanced.

A good deal of work has also been done towards ascertaining the losses in the channels serving irrigation districts, and in the preparation of discharge tables for use in such districts. The results of river gaugings subsequent to last publication are in manuscript, and are available for reference at the office of the Commission. These will be published as early as practicable.

DIVERSION OF WATER.

In the exercise of the right of the State to the use and flow and control of water in rivers, creeks, streams or water-courses, lakes, lagoons, swamps or marshes, sanction to divert has been given in a large number of cases.

The number of authorized diversions in force is now—

Yearly permits	..	..	..	..	612
Flood permits (Murray River)	..	..	..	..	21
Licences	..	..	..	..	12
					<hr/>
					645
					<hr/>

The new issues for the year were 167.

Questions of pollution of streams and of interference with beds and banks giving rise to interruption or diversion of the flow of water have also been dealt with from time to time.

TORRUMBARRY WEIR.

The investigations as to the site for a suitable weir near the head of the Kow Swamp scheme have shown that such can be obtained, and plans and estimates for a suitable weir have been prepared and submitted. The construction of this weir will greatly facilitate the irrigation of the important existing districts in that locality. The consent of the Government of New South Wales is required before this work can be commenced, but there is every probability of this being obtained.

MURRAY RIVER FRONTAGE SCHEMES.

During the year the necessary survey work for an examination of the country adjacent to the Murray River, between Nyah and Narrung, was commenced and will be continued during the coming year. The object is to ascertain the best means of providing a domestic and stock supply to the interior country lying to the north-west of the area already commandable from Nyah.

THE MURRAY RIVER INQUIRY.

The States of New South Wales, South Australia, and Victoria have arranged for an Engineering Conference to investigate the water supply of the Murray and the opportunities for utilizing it. Mr. J. S. Dethridge, a member of this Commission, has acted as a representative on the Conference for Victoria, and Mr. E. Checchi, of the Commission's Engineering staff, has, with the consent of the Commission, been employed as engineer in charge of the investigations of the Conference. Pending the report of this Conference and action thereon by the States the Commission has withheld recommendations in regard to further extensions of the irrigated area along the Murray.

FLOOD PROTECTION IN THE GOULBURN.

The Commission has, at the request of the Government, taken over the construction and maintenance of levees and other flood protection works along the Goulburn River, which were formerly vested in the Department of Public Works and it has been entrusted with formulating and carrying out a comprehensive scheme recently agreed to by the Government and the land-owners of the flooded territory.

It is realized that the natural obstacles to be overcome are very great, and, unless an immense initial expenditure is incurred, complete protection from floods must be the work of time as well as of construction. The Commission, while taking advantage of and completing as far as possible the partly finished levee works, looks rather for a final solution of the problem to the straightening of the river channel by cutting across bends, and to the removal of the obstruction to floods through dead timber and scrub, and is directing its efforts accordingly. In order to create a new and shorter channel economically, the erosive action of the river itself must, as far as practicable, be utilized, particularly at points where removing the ground otherwise would involve an immense cost. The Commission feels confident, however, that the work being done will at once begin to mitigate floods, and this action will become more and more marked with time.

WORKS CONTROLLED BY OTHER AUTHORITIES.

During the year a number of works was carried out by other Authorities on the recommendation of the Commission.

A new Trust to undertake and control a supply for the township of Glenrowan was constituted. Works are in progress at Trentham and Glenrowan. Pipe extensions and other additions were made by the local Authorities at Avoca Township, Bairnsdale, Colac, Donald, Hamilton, Inglewood, Kerang, Kyneton, Mildura, Mooroopna, Nagambie, Rochester, Rutherglen, Seymour, Shepparton, St. Arnaud, Swan Hill, Tatura, Traralgon, and Warracknabeal. Proposals for improvement of the services at Dandenong, Dunolly, Echuca, Euroa, Koroit, Lillydale, Maryborough, Sale, and Tarnagulla, together with new schemes for the supply of Malmesbury, Maffra, and Morwell are being investigated.

GENERAL.

INCREASE IN AREA IRRIGATED.

The area irrigated in 1911-12 was 50 per cent. greater than in 1910-11. Nearly all of this increase was in the new closer settled districts. Elsewhere there was little change, as the profits of wheat-growing in recent years have, where holdings are large, restricted rather than increased the use of water.

The delivery of water to these new areas was attended by special difficulties. Little of the land had ever before been irrigated. The subsidence which occurs in newly graded land and new channel banks when first saturated with water made irrigation difficult, especially to beginners. Nearly all the larger channels and structures were used for the first time and subjected to the severest tests before there had been time for proper settlement of embankments. To operate irrigation systems under such conditions is a trying and difficult task. Water is sure to find every weak spot, and interruptions are the rule rather than the exception in new irrigation channels. That such interruptions were few last season was due to the zeal and watchfulness of the district engineers and water bailiffs.

INCREASED EXPENSE OF SUPPLYING WATER IN NEW IRRIGATION DISTRICTS.

For several reasons the delivery of water to these new districts entailed expenditures which will not have to be incurred hereafter. One cause was the lack of experience on the part of settlers; nearly all those in the new areas were beginners in irrigation, and about half were from other countries. They not only had to learn how to distribute water, but to adapt themselves to the order and system which are essential to the successful operation of irrigation works. Under these exceptional conditions the Commission did not apply strictly the rules that have to be enforced in old established areas, but employed additional water bailiffs, so that each bailiff could have some spare time to show beginners how to handle water. Instead of operating the channels continuously, as must be done in older districts, water was, where possible, turned on in the morning and turned off at night, so that irrigators were only required to use it in the day-time; instructors were also sent into these districts from time to time to note how beginners were getting along, and to give advice and assistance where necessary. These measures added materially to the operating expenses and involved a considerable waste of water, but enabled many settlers to succeed who would otherwise have failed.

The total operating expenses of the year were also materially increased by lack of rain in the latter part of the season. Although the irrigation period ends with April, water was supplied to irrigators until the middle of June. During the latter part of this period the demand was so irregular that the cost was greater than the return from water sales. Such late waterings are not regarded as profitable to the irrigator, but the Commission believed that refusal to supply water under the drought conditions prevailing would be misunderstood.

INCREASED COST OF SUPPLYING WATER FOR DOMESTIC AND STOCK PURPOSES.

The delivery of water for domestic and stock purposes in the Mallee continued throughout the Summer and Autumn, although the Commission had previously given notice that such delivery would not be made during this part of the year because of the waste of water which it entailed. The necessities of farmers in that area made such action unavoidable, although it required a large additional outlay for pumping and

for clearing out and operating channels. This Summer service, in parts of the Mallee, was due to its recent settlement, sufficient time not having elapsed for the new-comers to construct tanks of the proper size; in older settled portions, however, it was chiefly due to neglect of settlers to build tanks large enough to carry a year's supply. The cost of this emergency service there renders increased rates necessary, and these will have to be imposed.

PERMANENT INCREASE IN THE COST OF SUPPLYING WATER.

The additional expenses previously alluded to were of a temporary character, and are not likely to be necessary in the near future. But there are other conditions which are operating to render necessary some increase in the rates and charges for supplying water in a number of irrigation and water supply districts and waterworks districts. Among these causes the following are the most important: The increase in the price of timber and cement used in structures; increased cost of fuel for the pumping plants—this increase for the last four years amounts to about 33 per cent.; the higher wages paid to both skilled and unskilled labour, and higher salaries to officers. The last-named increases have been rendered necessary by the greater cost of living, and have not reached a point beyond those paid for similar services elsewhere; on the contrary, in many cases, they are still low.

EXTENSION OF THE ROTATION SYSTEM IN DELIVERING WATER.

Although the revenues from irrigation last year exceeded the estimates and indicated that such revenues will grow in the future, a proper financial return from irrigation works, without seriously increasing the price of water, can only be secured by rigid economy in use and such order and system in distribution as will prevent waste. To this end the delivery of water to irrigators in rotation which was introduced in the Swan Hill and Merbein districts two years, and in Cohuna one year, ago, is being extended this year to the districts under the Goulburn Scheme. This system not only enables those in authority to locate waste and to check inaccuracy in deliveries, but gives a more prompt and more satisfactory service to water users. The saving in the Swan Hill district has been so marked that the Commission feels warranted in extending the boundaries of the district, and increasing the area supplied from the pumping plant by 3,000 acres.

NEED OF ADDITIONAL RESERVOIRS.

The serious problem of the irrigation schemes has been until recently to bring existing works into full operation and find a market for the surplus water available. This problem has not been as yet fully solved, as there is a considerable surplus of water available from the Waranga Basin which must be brought into use before the Goulburn Scheme can be made self-supporting. Until a reliable market for the available water has been established, it has not seemed just to the taxpayers of this State to embark on any costly works to provide additional water supplies. Hence during recent years the only extensive storage undertaken has been that for supplying Bacchus Marsh and the Werribee district. The building of the Pyke's Creek reservoir has been, however, fully justified. Without this water supply the town of Bacchus Marsh would have been in a deplorable condition last year, as for several months the Werribee River, on which it formerly depended for water, was dry, and there would also have been a serious loss of crops in the Bacchus Marsh Irrigation District. Since the construction of the Pyke's Creek reservoir, the area of land irrigated from it at Bacchus Marsh has been very considerably extended over what was contemplated originally, and in order to meet the demands at Werribee, it seems advisable to provide a further storage. Recommendations regarding this will be made by the Commission.

ADDITIONAL STORAGE FOR THE GOULBURN SCHEME.

To fully utilize the main channels of the Goulburn Scheme, additional storage on the main river is necessary. The investigations of the Commission, which have been prosecuted during the past three years, have shown that there is no opportunity

on this river for storing water cheaply, but several sites have been found where water could be stored. There is little difference in the unit cost of water in several of these, but it will be higher than in the case of existing storages. The Commission is giving its attention to selecting the most economical and effective site, and intends making an early report thereon.

MEASUREMENT OF WATER FOR IRRIGATION.

For the past three years the Commission has been testing measuring devices devised in Australia or in use elsewhere, and as a result of its experiments has adopted a meter designed by Mr. Dethridge, a member of this Commission. It is simple, correct, and can be constructed as cheaply as any other form which has these essential qualities.

PREPARATION OF LAND FOR FODDER CROPS.

The extension of the area devoted to lucerne and other permanent fodder crops will be a public benefit to Victoria, as it will furnish the cheapest and best possible means of providing for the emergency requirements of dry seasons. Closer settlement is doing more than any other single influence to extend the irrigable area devoted to lucerne. The grading of land for lucerne is, however, a difficult and expensive operation. This fact has been the greatest obstacle to its being grown in the past. Lucerne is also a hard crop to establish the first time it is sown on land. Owing, however, to the importance of this crop, the grading and seeding of a small tract on each irrigated block has, where desired by the settler, been made one of the features of the closer settlement of irrigated lands, and this work has been carried out by the Commission. During the past season about 3,000 acres have been so prepared and seeded, and on the greater part of this a satisfactory stand of lucerne has been obtained. Some difficulty in irrigation has been encountered by beginners because of the subsidence which always occurs on newly graded land where depressions have been filled. This defect, which is inseparable from such work, can, however, from time to time be made good by the settler in his ordinary operations.

The cost of the preparation of the land is borne by the settler, payments being extended over a period of five years.

GRADING AND CULTIVATION SHOULD BE RESTRICTED TO THE FIRST YEAR AFTER SETTLEMENT.

In addition to the grading of land and seeding of lucerne, the Commission, at the direction of the Closer Settlement Board, has prepared and seeded some land to temporary fodder crops. It is the belief of the Commission that the grading and seeding of land should be restricted to the first year after settlement, and that thereafter the settler should himself carry out all his farm operations. This is rendered all the more necessary because there is a tendency on the part of some settlers of limited means to call upon the State to continue this partnership in cultivation. So far as the Commission is concerned, this will be impossible, because it is a sufficiently difficult task to do this work for new settlers each season. In addition, there is danger that a continuance of such aid would lessen the self-reliance of settlers and involve the State in expenditure which will in the end have to be met by the general taxpayer. With the assistance now rendered during the first year, any settler ought to be able thereafter to cultivate his holding without State aid.

EXCURSIONS TO THE IRRIGATION AREAS.

At the request of the Government, Mr. Cattnach, a Member of this Commission' made a visit to America to organize a land settlers' excursion from that country. The purpose of this excursion was to bring the opportunities of Victoria to the attention of the irrigators of the United States. Mr. Cattnach succeeded in inducing a number

of Americans, many of whom had an expert knowledge of irrigation and a wide acquaintance among American irrigators, to visit this country. All who came were favorably impressed by the opportunities here presented, and it is believed that most valuable results will follow. Several have already settled in the irrigation areas, and others intend doing so as soon as they can dispose of their property in America.

The Commission has also utilized every opportunity which presented itself to bring the advantages of irrigable areas to the attention of Victorian land seekers, and several Victorian excursions have been arranged to this end. On one of these over 700 people inspected the Goulburn Scheme, and a considerable number of the excursionists subsequently settled on the lands commanded therefrom.

This participation in land settlement matters has taken much of the Commission's time, but it has been justified by the fact that the Commission has a more enduring interest in the success of such settlers than any other State authority, because its relations with these settlers is a permanent one. For this reason it has, wherever possible, arranged to meet with and give advice to all new settlers, and its officers have accompanied practically all of them in their search for land.

PREPARATION OF LAND IN ADVANCE OF SETTLEMENT.

The Commission has from time to time pointed out the necessity of all land required for closer settlement in irrigated areas being acquired twelve months before such settlement begins, in order that suitable time may be given for the preparation of plans and construction of water supply channels. Thus far the Commission has had to do much of its construction work under emergency conditions in order to meet the demands of incoming settlers. As a constant stream of settlers to the irrigated areas from other parts of Victoria and from abroad is assured the Commission recommends that sufficient areas of land should at once be placed under its control for the purpose of carrying out works in preparation for such settlers.

THE SUCCESS OF CLOSER SETTLEMENT.

The conditions which govern success in irrigation in this State are well established but are not everywhere understood. This warrants their re-statement.

In the selection of irrigable areas suitability of soil should be one of the prime considerations. Land suited to intense culture should, as far as practicable, be first supplied, and for such lands the water supply must be ample and reliable. For intense culture to be profitable holdings must be small. The success of irrigation is therefore closely associated with closer settlement. As to the success of irrigation there need be no misgiving if it is restricted to areas of good land, and settlers are given a proper water service. The progress of the past three years has been very satisfactory. The transformation which has taken place at White Cliffs; the agricultural improvement shown at Swan Hill and Cohuna, and the increase in land values in all these districts leave no question as to the results there. What has already occurred in the older closer settlements is taking place in the more recent settlements under the Goulburn Scheme. Settlement No. 1 at Shepparton had, during its initial stages, many obstacles to overcome, as has every new settlement under irrigation, but everyone who has seen it recently is impressed with the remarkable transformation which has been wrought in the appearance and productiveness of the settled area. The confidence of those who have watched this development from its inception and seen the older districts grow from their initial stages is shared by all experienced irrigators from other countries who have recently visited this country. The irrigators of the American excursion were of opinion that Victoria has an unsurpassed combination of advantages. This opinion which has been widely disseminated and the generally favorable impression of settlers from Europe have started a movement towards the irrigated areas which is immensely increasing the productive capacity of the northern part of the State.

ADMINISTRATION.

AMALGAMATION AND SUBDIVISION OF DISTRICTS.

The districts of Koondrook and Myall, and Benjeroop and Murrabit, together with a small portion of Cohuna District and outside areas, have been united so as to form the Koondrook Irrigation and Water Supply District. In like manner the districts of East Boort, Leaghur and Meering, North Boort, Twelve Mile, and Wandella have been formed into one district, known as the Boort Irrigation and Water Supply District. It is intended next year to amalgamate, under the name of Rochester Irrigation and Water Supply District, the districts of Bamawm, Nanneella, portions of Campaspe and Deakin, and some outside areas.

The Cohuna Irrigation and Water Supply District was subdivided into the two districts of Cohuna, comprising the No. 1 Riding, and Gannawarra, comprising the Nos. 2 and 3 Ridings of the old district. Next year it is proposed to subdivide the Gannawarra District into two districts of Gannawarra and Gannawarra West. By this subdivision a more equitable system of rating and charging for water can be secured.

NEW DISTRICTS CONSTITUTED.

During the year, the three Irrigation and Water Supply Districts of Bamawm, Koyuga, and Nanneella have been constituted, and it is proposed to constitute next year similar districts at Tongala and Dingee. All these districts will draw their supply from the Waranga Western Channel.

In the Coliban Area the small Waterworks Districts of Bagshot, Emu Valley, Harcourt, and Huntly have been constituted. These districts, as well as the Axe Creek District formed last year, comprise lands directly benefited by various races in the Coliban Area.

NEW APPOINTMENTS.

Mr. G. B. Gibbs has been appointed Resident Engineer, and Mr. John Roy, Resident Secretary, in charge of the Bamawm, Campaspe, and Nanneella Irrigation and Water Supply Districts, which, as previously stated, will later be merged into the Rochester District. Mr. E. P. Kendall has been appointed Resident Engineer in charge of the two districts of Deakin and Koyuga, and will act in a similar capacity for Tongala District when it is formed. Mr. A. E. Castles, who formerly held the office in respect of the Deakin and Campaspe Districts, resigned on 31st December, 1911. Mr. S. T. Bladin was appointed Secretary and Collector for Wonthaggi District, but, unfortunately, after rendering great assistance to the Commission, his death occurred. It is proposed to fill the vacancy by the appointment of Mr. C. E. Bladin. Mr. H. Renfree was appointed Collector for Carrum District in place of Mr. W. J. Wallis, resigned, while Mr. J. F. Callahan was appointed to a similar position for the Avoca Trust, an office rendered vacant by the death of Mr. M. G. Croker.

OFFICES IN COUNTRY CENTRES.

Offices for the conduct of the Commission's business have been erected at Hopetoun, and are in course of erection at Cohuna. It is proposed to also erect office buildings at Rochester.

FIRE INSURANCE.

Since July, 1909, the Commission has been carrying the fire risks on its own buildings, and the premiums thus saved now amount to £510. No losses from fires have occurred since the date mentioned.

GENERAL.

An additional area of some 6,000 acres has been added to the Bacchus Marsh Irrigation and Water Supply District, of which some 2,700 acres will be subject to the irrigation charge.

It is proposed to add a further area of 5,000 acres to the existing Shepparton Irrigation and Water Supply District during the ensuing year.

The name of the "White Cliffs" Irrigation Area will next year be changed to "Merbein."

RECEIPTS, DISBURSEMENTS, AND ESTIMATES.

The total revenue of the Commission for the year was £152,820, an increase of £16,070 on the amount for 1910-11. As in last year, the greater portion of this increase came from those Irrigation and Water Supply Districts in which the compulsory irrigation charge was levied.

The Coliban District showed a small increase of £822 in receipts, as compared with last year's return; the expenditure, however, showed an increase of £649. The net return to the State on capital cost is 2.26 per cent. as against 1.9 per cent. in the year 1905-6.

The revenue from the Irrigation and Water Supply Districts is £10,892 more than the amount for last year, and, although this increase may be regarded as satisfactory, it is not sufficient to meet the additional expenditure and interest for the year. The aggregate revenue deficit of all the districts now reaches £57,983, but this includes a new amount, not previously charged to the districts, of £6,302 for the interest on and maintenance of portions of the Goulburn Main Channel Scheme and the new Pyke's Creek Reservoir. The increase of £19,064 shown in the deficit is mainly due to the small amount received from a number of new districts in which works have been carried out, but from which only a slight return can reasonably be expected for a few years. The financial position will now, with the further general introduction of the compulsory irrigation charge in districts having an ample water supply, begin to improve, and it is believed that not only will the financial drift be stopped, but that gradually the accumulated deficits will be paid off.

In the various Waterworks Districts under the control of the Commission other than Coliban, the revenue returns continue to be satisfactory, and the revenue deficit, which in 1908-9 was £19,274, has been reduced to £7,931, notwithstanding that during the year a sum of £7,994 has been taken from revenue and credited to Depreciation and Redemption Funds.

The net expenditure for the year from annual votes was £94,522, an increase of £19,508 over that of the previous year. This increase was mainly due to the additional expenditure incurred in both Irrigation and Water Supply and Waterworks Districts through the watering season being unduly but necessarily prolonged by a particularly long period of abnormally dry weather. The number of new Irrigation Districts constituted will, of course, necessarily increase the expenditure, but, as previously stated, the revenue therefrom should in a few years fully meet the outlay. The total expenditure of £94,522 is exclusive of £5,390 charged to capital, and is also this year exclusive of a sum of £3,675, which represents one-half of the expenditure remitted in the Nyah and White Cliffs Irrigation Areas under the provisions of the *Murray Settlements Act* 1907. As previously stated, it is intended to uniformly increase the proportion of expenditure charged to these areas so that the full amount will be charged to the districts as from 1st July, 1913.

In the Swan Hill Irrigation and Water Supply District, a sum of £300 was allowed off the interest charged to the district as an equivalent for rates and irrigation charges on the unoccupied lands held by the Closer Settlement Board.

The Estimates for 1912-13 show an increase of £21,000 in receipts over the previous year's estimate, while the estimated disbursements show an increase of £13,750. The sum estimated to be available towards meeting the interest to be paid by the State on its loan expenditure for works of water supply is £52,550, to which should be added £54,000 estimated to be received by the State from other Authorities, making a total of £106,550. The present total interest charges on loans amount to £250,861; of this amount, £91,494 is debitable against Free Headworks, Amounts Written Off, and Unexpended Balances, while £159,367 is debitable against the Commission and other Authorities.

The loan liability of the State for works of water supply at the close of the year was £7,465,423. Of this total, £1,232,381 is for Free Headworks; £1,268,972 has been written off; £147,046 was advanced as free grants to some early-formed local Authorities; £2,170 has not been expended; and £200,622 has been paid off by Authorities. The balance, £4,614,232, is the sum in respect of which those benefited by the various works are liable for payment of interest.

RECEIPTS AND DISBURSEMENTS.

STATEMENT of Moneys received and disbursed during the year ended 30th June, 1912.

Works.	REVENUE.	EXPENDITURE, exclusive of Interest, Redemption, and Depreciation Charges.			EXCESS.	
		From Annual Votes and Special Appropriation.	Deduct Capital and Other Expenditure not Chargeable to Districts.	Net Expenditure on Maintenance and Management.	Revenue over Net Expenditure.	Expenditure over Revenue.
	£	£	£	£	£	£
Coliban	38,351	12,596	1,497	11,099	27,252	
Other State Works—						
Goulburn	160	2,597	..	2,597	..	2,437
Loddon River	7	323	..	323	..	316
Kow Swamp	266	1,984	..	1,984	..	1,718
Broken River	7	199	..	199	..	192
North-West Lakes	355	529	..	529	..	174
Lake Lonsdale	71	247	..	247	..	176
Lower Wimmera .. ..	..	820	..	820	..	820
Irrigation Districts	58,186	40,430	3,675	36,755	21,431	
Waterworks Districts—						
Rural	40,477	23,082	218	22,864	17,613	
Urban	9,025	2,999	..	2,999	6,026	
Licences, Diversions, Pumping, and Miscellaneous, including Mallee Water Trains ..	5,915	2,781	..	2,781	3,134	
	152,820	88,587	5,390	83,197	75,456	5,833
Not Revenue Producing—						
River Gaugings, Surveys and Reports, New Projects ..	..	4,870	..	4,870	..	4,870
Waterworks Trusts—						
Administration .. ..	..	1,563	..	1,563	..	1,563
Boring for Water and Road Clearing, Mallee, and Land Settlement .. ..	..	2,571	..	2,571	..	2,571
Loan Works—						
Services on account of, defrayed from Votes ..	..	2,321	..	2,321	..	2,321
Totals	152,820	99,912	5,390	94,522	75,456	17,158

COLIBAN SYSTEM.

STATEMENT of Moneys received and disbursed during the year ended 30th June, 1912.

District.	CAPITAL DEBIT at 30th June, 1912.	Disbursements from Consolidated Revenue.		ACTUAL RECEIPTS for year 1911-12 (Receipts for 1910-11 shown in brackets.)	Receipts over Net Expenditure on Maintenance and Management, showing rate per cent. on total cost. (Same for Coliban for preceding year in brackets.)
		INTEREST on Capital at 4 per cent.	Net MAINTENANCE and MANAGEMENT.		
	£	£	£	£	£
Coliban	1,202,211	48,088	10,990	38,153 (37,331)	27,163 2·26 per cent. (26,990 = 2·25 per cent.)
Axe Creek ..	1,750	70	Maintenance .. 54 Water Supply .. 50 Management .. 5 Interest .. 70	Rates .. 136 Water Sales .. 62 198	Receipts over Expenditure <u>£19</u>
			109 179		

IRRIGATION AND WATER SUPPLY DISTRICTS.

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, 1912; and of Interest, charged at the rate of 4 per cent. on Capital Debts; and also of Depreciation and Redemption charged, as at 30th June, 1912. (Free Head-works excluded.)

RECEIPTS.

District.	1st May, 1906, to 30th June, 1911.	1911-12.					Grand Total at 30th June, 1912.
		Rates.	Compulsory Irrigation Charge.	Water Sales.	Interest, Miscellaneous.	Total.	
	£	£	£	£	£	£	£
1. Bacchus Marsh	1,272	535	1,670	280	2	2,487	3,759
2. Bamawm .. .. .	..	329	..	122	23	474	474
3. Boort	9,533	984	..	656	47	1,687	11,220
4. Campaspe	4,126	609	..	76	5	690	4,816
5. Cohuna	18,738	1,678	4,630	865	82	7,255	25,993
6. Deakin	13,672	3,275	..	863	12	4,150	17,822
7. Dry Lake	173	..	..	..	29	29	202
8. Gannawarra	14,554	1,729	..	1,451	16	3,196	17,750
9. Kerang	19,894	1,648	..	1,710	6	3,364	23,258
10. Koondrook	11,556	1,092	3,025	348	15	4,480	16,036
11. Koyuga .. .. .	..	61	..	76	1	138	138
12. Nanneella .. .. .	..	105	..	24	1	130	130
13. Nyah	820	61	1,153	1	55	1,270	2,090
14. Rodney	56,104	5,471	11,742	649	168	18,030	74,134
15. Shepparton	329	174	629	1	74	878	1,207
16. Swan Hill	11,318	596	2,128	248	72	3,044	14,362
17. Tragowel Plains	19,136	2,350	..	1,814	95	4,259	23,395
18. White Cliffs	1,738	126	2,404	6	89	2,625	4,363
Miscellaneous	4	..	..	..	..	..	4
	182,967	20,823	27,381	9,190	792	58,186	241,153

DISBURSEMENTS, AND INTEREST DEPRECIATION AND REDEMPTION CHARGED.

District.	1st May, 1906, to 30th June, 1911.	DISBURSEMENTS.				Total at 30th June, 1912.	INTEREST CHARGED.			(A) DEPRECIATION. (B) REDEMPTION.	Grand Total at 30th June, 1912.
		1911-12.					1st May, 1906, to 30th June, 1911.	1st July, 1911, to 30th June, 1912.	Total at 30th June, 1912.		
		Repairs and Maintenance.	Distribution of Water.	Management.	Total.						
	£	£	£	£	£	£	£	£	£	£	
1. Bacchus Marsh	1,167	182	124	163	469	1,636	875	2,115	2,990	..	4,626
2. Bamawm .. .. .	..	246	629	273	1,148	1,148	..	2,954	2,954	..	4,102
3. Boort	5,958	712	380	93	1,185	7,143	3,987	700	4,637	..	11,830
4. Campaspe	2,811	157	143	98	398	3,209	2,931	516	3,447	..	6,656
5. Cohuna	16,074	1,892	2,719	483	5,094	21,168	8,979	2,234	11,213	(A)2,400	34,781
6. Deakin	6,454	956	915	339	2,210	8,664	9,302	3,678	12,980	..	21,644
7. Dry Lake	1	..	..	..	..	1	174	29	203	..	204
8. Gannawarra	11,843	955	1,141	162	2,258	14,101	6,616	1,500	8,116	(A)1,200	23,417
9. Kerang	9,964	1,835	739	369	2,943	12,907	8,906	1,516	10,422	(B) 500	23,829
10. Koondrook	9,954	520	1,437	299	2,256	12,210	6,230	2,491	8,721	(A)1,126	22,057
11. Koyuga .. .. .	..	346	188	55	589	589	..	1,121	1,121	..	1,710
12. Nanneella .. .. .	..	142	374	172	688	688	..	1,588	1,588	..	2,276
13. Nyah	1,561	80	920	105	1,105	2,666	1,128	400	1,528	(A) 652	4,846
14. Rodney	29,405	3,723	3,490	1,119	8,332	37,737	30,982	11,836	42,818	..	80,555
15. Shepparton	440	586	156	98	840	1,280	969	989	1,958	..	3,238
16. Swan Hill	12,119	362	1,403	283	2,048	14,167	2,774	813	3,587	(A)1,168	18,922
17. Tragowel	13,442	1,532	903	191	2,626	16,068	8,665	1,410	9,475	..	25,543
18. White Cliffs	2,403	56	2,277	233	2,566	4,963	1,835	811	2,706	(A)1,225	8,900
	123,596	14,282	17,938	4,535	36,755	160,351	93,813	36,701	130,514	8,271	299,136

WATERWORKS DISTRICTS.

STATEMENT of Moneys received and disbursed from 1st July, 1906, to 30th June, 1912; and of Interest charged, at the rate of 4 per cent. on Capital Debts; and also of Depreciation and Redemption charged, as at 30th June, 1912. (Free Head-works excluded.)

RECEIPTS.

District.	1st May, 1906, to 30th June, 1911.	1911-12.				Grand Total at 30th June, 1912.
		Rate.	Water Sales.	Interest and Miscellaneous.	Total.	
<i>Rural.</i>						
1. Birchip	£	£	£	£	£	£
2. Sea Lake	} 24,477	} 4,874	..	83	4,958	} 34,516
3. Wycheproof .. .. .			..	45	2,983	
4. Karkaroc	4,418	4,579	..	60	4,639	9,057
5. Long Lake	16,702	4,140	63	43	4,246	20,948
6. Tyntynder	963	1,076	..	11	1,087	2,050
7. Western Wimmera	28,987	8,082	1,011	145	9,238	38,225
8. Wimmera United	34,216	10,945	172	111	11,228	45,444
<i>Urban.</i>						
9. Bacchus Marsh	3,343	486	195	..	681	4,024
10. Birchip	1,211	654	210	11	875	2,086
11. Dimboola	4,185	451	806	31	1,288	5,473
12. Lake Boga	294	172	..	1	173	467
13. Minyip	1,003	368	2	1	371	1,374
14. Natimuk	1,346	219	165	10	394	1,740
15. Rainbow	767	612	19	10	641	1,408
16. Rupanyup	778	251	182	1	434	1,212
17. Sea Lake	684	327	1	9	337	1,021
18. Wonthaggi	409	1,464	1,423	Grant 500 } 17 }	3,404	3,813
19. Wycheproof	988	393	31	3	427	1,415
	124,771	44,092	4,280	1,129	49,502	174,273

DISBURSEMENTS, AND INTEREST DEPRECIATION AND REDEMPTION CHARGED.

District.	DISBURSEMENTS.					INTEREST CHARGED.					Grand Total at 30th June, 1912.
	1st May, 1906, to 30th June, 1911.	1911-12.			Total at 30th June, 1912.	1st May, 1906, to 30th June, 1911.	1st July, 1911, to 30th June, 1912.	Total at 30th June, 1912.	(A) DEPRECIATION. (B) REDEMPTION.		
		Repairs and Maintenance.	Distribution of Water.	Management.					Total.	£	
<i>Rural.</i>											
1. Birchip	} 20,654	} 4,095	} 442	} 752	} 5,289	} 25,943	} 17,356	} 5,248	} 22,604	..	} 48,547
2. Sea Lake											
3. Wycheproof	1,284	1,287	265	323	1,875	3,159	2,570	2,876	5,446	..	8,605
5. Long Lake	11,095	882	2,098	450	3,430	14,525	4,043	1,352	5,395	(A) 2,367	22,287
6. Tyntynder	351	176	677	84	937	1,288	474	524	998	..	2,286
7. Western Wimmera	12,559	1,813	2,721	721	5,255	17,814	10,925	2,989	13,914	(B) 3,000	34,728
8. Wimmera United	16,953	3,701	1,550	827	6,078	23,031	12,393	4,432	16,825	(B) 3,000	42,856
<i>Urban.</i>											
9. Bacchus Marsh	1,558	32	22	62	116	1,674	940	530	1,470	(A) 84	3,228
10. Birchip	480	63	180	65	308	788	738	305	1,043	(A) 74	1,905
11. Dimboola	2,426	279	420	128	827	3,253	603	240	843	(A) 360 (B) 280	4,736
12. Lake Boga	33	..	3	2	5	38	300	107	407	(A) 18	463
13. Minyip	440	6	157	46	209	649	577	285	862	(A) 58	1,569
14. Natimuk	91	125	13	34	172	263	476	126	602	(B) 500	1,365
15. Rainbow	199	28	92	38	158	357	689	406	1,095	(A) 120	1,572
16. Rupanyup	363	6	139	42	187	550	436	162	598	(A) 63	1,211
17. Sea Lake	558	11	229	49	289	847	215	71	286	(A) 99	1,232
18. Wonthaggi	38	25	176	142	343	1,251	978	2,284	3,262	..	3,643
19. Wycheproof	866	46	276	63	385	381	402	232	634	(A) 86	1,971
	69,948	12,575	9,460	3,828	25,863	95,811	54,115	22,169	76,284	10,109	182,204

DISTRICTS HELD IN TRUST BY THE COMMISSION—*continued.*

CARRUM WATERWORKS TRUST.—BALANCE-SHEET.

STATEMENT OF RECEIPTS AND DISBURSEMENTS FOR THE YEAR ENDED 31ST DECEMBER, 1911.

Revenue Account.

RECEIPTS.			DISBURSEMENTS.		
	£	s. d.		£	s. d.
Bank Balance from 1910	342	19 5	Interest on Loan	681	5 10
Arrears of Rates	1,476	17 0	Redemption of Loan	126	9 2
Current Rate	622	16 0	Maintenance and Repairs	868	5 6
Interest on Rates	58	19 3	Rate Collector	100	9 11
Overpayment to Bank	1	7 1	Management	110	2 11
			Bank Charges	2	2 3
			Bank Balance, 31/12/1911	614	3 2
Total	£2,502	18 9	Total	£2,502	18 9

Special Works Account.

RECEIPTS.			DISBURSEMENTS.		
	£	s. d.		£	s. d.
Balance from 1910	774	8 9	Bank Charges	0	10 6
Special Rate Receipts	43	17 0	Bank Balance, 31/12/1911	817	15 3
Total	£818	5 9	Total	£818	5 9

Statement of Assets and Liabilities.

LIABILITIES.			ASSETS.					
	£	s. d.		£	s. d.	£	s. d.	
Treasurer, Victoria—Loan	16,862	11 9	Works at Cost	25,732	9 6			
Overpaid Rate	0	11 6	Less Amount Written Off	7,732	0 0	18,000	9 6	
Bank Overpayments	1	7 7				1,539	3 5	
Balance, General Account	3,289	5 3	Arrears of Rates			614	3 2	
			Bank Balance, 31/12/1911					
Total	£20,153	16 1	Total	£20,153	16 1			
Special Works—	£	s. d.	Special Works—	£	s. d.	£	s. d.	
Balance of works to be carried out	1,345	7 11	Amount of Special Rate	8,144	15 6			
			Less Amount Received	7,983	10 9	161	4 9	
						366	7 11	
			Balance of Money at Treasury			817	15 3	
			Bank Balance, 31/12/1911					
Total	£1,345	7 11	Total	£1,345	7 11			

Statement of Rates.

			£ s. d.			£ s. d.		
	£	s. d.		£	s. d.		£	s. d.
Current Rate	1,519	4 9	Current Rate Collected	622	16 0			
Arrears from 1910	2,119	12 8	Arrears of Rates Collected	1,476	17 0			
			Rate Written Off	0	1 0			
			Arrears carried forward to 1912	1,539	3 5			
Total	£3,638	17 5	Total	£3,638	17 5			

Special Works Rate.

			£ s. d.			£ s. d.		
	£	s. d.		£	s. d.		£	s. d.
Arrears from 1910	205	1 9	Arrears Collected in 1911	43	17 0			
			Arrears carried forward to 1912	161	4 9			
Total	£205	1 9	Total	£205	1 9			

LOAN EXPENDITURE.

STATEMENT OF LOAN EXPENDITURE FOR THE YEAR ENDED 30TH JUNE, 1912.

Name.	Loans Application Act No. 2326 and other advances.		
	£	s.	d.
<i>Free Headworks.</i>			
1. Goulburn River Works (Waranga Reservoir)	613	6	2
2. Kow Swamp Headworks	3,552	18	3
3. Loddon River Works (Laanecoorie)	666	4	8
<i>Waterworks Districts.</i>			
4. Birchip, Sea Lake, and Wycheproof	8,138	4	1
5. Karkaroc	13,557	19	0
6. Long Lake	3,397	16	4
7. Tyntynder	4,812	3	11
8. Western Wimmera	1,092	1	9
9. White Cliffs	1,476	15	11
10. Wimmera United	3,122	8	4
11. Wimmera Main Channels	13,266	16	3
<i>Towns.</i>			
12. Beulah	2,872	1	9
13. Birchip	577	16	2
14. Boga	49	7	10
15. Cohuna	215	4	3
16. Coliban	3	1	2
17. Corop	223	10	11
18. Dimboola	204	9	9
19. Hopetoun	96	13	5
20. Jeparit	4,871	13	9
21. Kaneira	2	15	10
22. Koondrook	3,085	13	10
23. Minyip	2,274	8	7
24. Rainbow	501	15	0
25. Rupanyup	141	3	2
26. Sea Lake	145	2	3
27. Ultima	39	19	3
28. Wonthaggi	8,536	3	0
29. Woomelang	437	14	8
30. Wycheproof	1,144	12	2
<i>Irrigation and Water Supply Districts.</i>			
31. Bacchus Marsh and Werribee Estate	33,251	12	6
32. Bamawm	21,571	3	10
33. Cohuna, including Gannawarra	6,314	2	9
34. Deakin	59	0	0
35. Kerang	1,110	0	10
36. Koondrook	12,807	7	2
37. Koyuga	2,622	9	11
38. Nanneella	10,572	18	3
39. Rodney	4,851	2	5
40. Shepparton	513	13	6
41. Swan Hill	1,410	12	4
42. Tragowel Plains	378	12	1
43. Goulburn Main Channels	44,626	10	1
<i>Irrigation Areas.</i>			
44. Nyah	111	6	1
45. White Cliffs	1,656	12	9
<i>Miscellaneous.</i>			
46. Goulburn Levees	3,280	10	0
47. Goulburn River Storages	927	16	4
48. Murray River—Torrumbarry Weir Site	547	13	9
49. Murray River—Surveys, Nyah and Narrung Areas	841	17	6
50. Mildura Railway Line—Construction of Tanks on adjacent Crown Lands	769	7	9
Total	227,344	11	3

STATEMENT OF EXPENDITURE DURING THE YEAR ENDED 30TH JUNE, 1912,

IN CONNEXION WITH

BORING FOR WATER, CONSTRUCTION OF PUBLIC TANKS, AND FORMING ROADS IN THE MALLEE.

This Expenditure was met either by the Lands Department or the Public Works Department.

	£	s.	d.
1. Boring for Water	10,893	2	5
2. Mallee Tanks	1,788	18	11
3. Clearing Roads	3,136	18	0
Total	15,818	19	4

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, 1913.

ESTIMATED DISBURSEMENTS.

Revenue Producing Works—

A.

Coliban District	£11,000	
Irrigation and Water Supply Districts ...	44,875	
Waterworks Districts	23,950	
General Expenditure and Salaries (proportion) over £250 to be apportioned to above Districts	13,825	
	<u>13,825</u>	£93,650

Not Revenue Producing Works—

B.

River Gaugings, Diversions from Streams, Surveys, New Projects, Land Settlement, General Expenditure and Salaries (proportion) over £250	£6,525	
Inter-State Conference on Murray Waters ...	500	
Irrigation Engineering Scholarships	300	
Loan Works, Services on Account defrayed from Votes	2,750	
Waterworks Trusts Administration	1,500	
	<u>1,500</u>	£11,575

Free Headworks and Grant—

C.

Goulburn-Waranga	£1,575	
Kow Swamp	2,000	
Loddon River... ..	300	
North-West Lakes	450	
Broken River	250	
Lake Lonsdale	300	
Lower Wimmera	150	
	<u>5,025</u>	
Charlton Waterworks Trust Grant	1,200	
	<u>1,200</u>	£6,225
		<u>£111,450</u>

ESTIMATED RECEIPTS.

Coliban District	£38,500	
Irrigation and Water Supply Districts	70,500	
Waterworks Districts	49,600	
Other State Works	2,000	
Miscellaneous	3,400	
	<u>164,000</u>	£164,000
Estimated amount available from Revenues of Commission to meet Interest		£52,550
To which add Estimated Revenues from Other Authorities—		
Waterworks Trusts... ..	£33,000	
Local Bodies	21,000	
	<u>54,000</u>	£54,000
Total Estimated amount available from Revenues of all Authorities to meet Interest		<u>£106,550</u>

ESTIMATE of the sums to be 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 available from the revenues of the Commission, and from the moneys receivable from such other Authorities, to provide such Interest for the year ending 30th June, 1913:—

Works.	Loan Liability of State for Works of Water Supply at 30th June, 1912, exclusive of Melbourne Water Supply.					Interest payable by State on Net Advances.	Total Interest of £250,861 debitable to—			Estimated Amount Available from Revenues of all Authorities to meet interest, see page 35.
	Total Advances, including Cost of Loan Flotation.	Deduct Redemption Paid.	Net Advances.	(A.) Amounts Written Off, (B.) Free Head-works, (C.) Loans Unexpended.	Balance at Debit of Authorities.		(A.) Written Off, (B.) Free Head-works, (C.) Loans Unexpended.	Commission and Other Authorities.		
Waterworks Districts	£ 1,977,632	£ 23,879	£ 1,953,753	£ 169,927	£ 1,783,826	£ 67,465	£ 61,602	£ ..	£ ..	
Irrigation and Water Supply Districts	1,318,161	11,484	1,306,677	575,152	731,525	45,122	19,845	..	52,550	
Goulburn Works (exclusive of Districts supplied are being debited with their proportion of Interest on Free Headworks)	607,570	17	607,553	..	607,553	20,979	..	..	..
Pyke's Creek and Werribee	82,581	..	82,581	..	82,581	2,852	..	..	..
Waterworks Trusts (including First Mildura)	1,318,707	79,094	1,239,613	327,409	912,204	42,806	11,299	..	54,000 (Including Interest on Revenue Advances).	
Local Bodies (Municipalities)	667,895	85,698	582,197	163,760	418,437	20,103	5,650	..	..
Irrigation Trusts Abolished	32,754	30	32,724	32,724	..	1,130	1,130	..	..
Free Headworks	1,232,801	420	1,232,381	1,232,381	..	42,555	42,555	..	..
Free Grants to Local Authorities	147,046	..	147,046	147,046	..	5,073	5,073	..	..
Surveys, Exploratory, and Preliminary Works, including Purchase of Land reserved for Reservoirs	78,106	..	78,106	..	78,106	2,697	..	2,697	..	
Loan Moneys unexpended... .. .	2,170	..	2,170	(C.) 2,170	..	79	79	..	..
Totals	7,465,423	200,622	7,264,801	2,650,569	4,614,232	250,861	91,494	159,367	106,550	

Dated at the Office of the State Rivers and Water Supply Commission,
Treasury Gardens, Melbourne, the 30th day of October, 1912.

ELWOOD MEAD, Chairman.

WM. CATTANACH, Commissioner.

J. S. DETHRIDGE, Commissioner.

M. NALLY, Secretary.