VICTORIA.

STATE RIVERS AND WATER SUPPLY COMMISSION.

SIXTH ANNUAL REPORT.

1910-11.

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

Sy Zuthority: J. REMP, GOVERNMENT PRINTER, MELBOURNE. APPROXIMATE COST OF REPORT.

Preparation-not given. Printing (1,100 copies)

DRT. £ s. d. 42 0 0

4

STATE RIVERS AND WATER SUPPLY COMMISSION.

ANNUAL REPORT, 1910-11.

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 1910-11, and Estimates for the ensuing year.

Since the last Report was submitted a vacancy in the Commission's membership occurred through the regrettable death, on 12th June, 1911, of Mr. Commissioner George Garson, M.Inst.C.E., who had been a member of the Commission since its inception. The vacancy is being filled by Mr. Commissioner John Stewart Dethridge, M.Inst.C.E.

WORKS UNDER CONTROL OF COMMISSION.

The following statement gives a brief description, summary of cost, and other particulars relative to the works now controlled by the Commission. The debits set out against the districts have been varied somewhat since last year owing

principally to alterations in district boundaries.

Since the last Report also a number of works of water supply constructed by municipalities from loans advanced by the State under the Mallee Tanks Acts, and the Municipalities Advances Act 1898, have been transferred to the Commission under the provisions of Section 37, Water Act 1909. The indebtedness assumed in respect of these works is included in this statement, and is also separately shown in the Report.

A.—FREE HEAD-WORKS.

DESCRIPTION OF WORKS.	Ospital Debit at 39th June, 1911. Exclusive of cost of Loan Flotation.
1. Broken River Works: —Carey's Weir and offtake, with about 59 chains of channel to the Broken Creek; Gowangardie Weir with offtake sluite	£ 1 4, 85 3
 Goulburn River Works: -Weir on the Goulburn River, about 9 miles above Murchison; channel theretrom, about 20½ miles, to Waranga Reservoir; and that Reservoir Kerang North-West Lakes Works:Weir on the Loddon River at its confluence with the Pyran-id 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 	730,588
Lake, Kangaroo Lake, and Lake Tutchewop, and to the Little Murray River, with water storage works at these lakes	9,587
outlet of the reservoir, about 23½ miles, to the left bank of the Loddon River	180,400
5. Lake Lonsdale Reservoir: - Reservoir at Lake Lonsdale, on the Little Wimmera River, near Ledcourt	49,054
6. Loddon River Works:—Lannecoorie Weir, on the Loddon; Bridgewater Weir, on the Loddon; Kinypanial Weir, on the Loddon	166,585
 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
Dimboola township; Antwerp Weir, on the Vinnmera, at Antwerp Station home- stead; Jeparit Weir, on the Wimmera, near Jeparit township	8,558
Total	£1,186,971

B.—WATERWORKS DISTRICTS

Distributary Works (including Mallee tanks transferred) within Districts under the control of the Commission as follow:—

Name of Districts (Including Urban Districts).	Advances made by State prior to transfer of District to Commission.	Capital Written Off by Acts 1625 and 1651.	Redemption Pald 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.	Capitel Dobit at 30th June, 1911.	
	£	£	£	£	£	£	
1. Birchip 2. Sea Lake	. 9,051 . 49,659	700	489 314 1,021	8,562 $49,345$ $10,731$	62,016	130,654	
4. Karkarooc	$\begin{array}{ccc} & 12,452 \\ & 17,094 \end{array}$		1,939	15,155	15,572	30,727	
 5. Long Lake (Free Head works excluded) 6. Western Wimmera 	8,173 217,976	132,835	421 6,777	7,752 78,364	25,234 12,661	32,986 91,025	
o. Tylkylldor	156,024	36,392	6,046	113,586	4,484 8,285 48,552	118,070 8,285 48,552	
o. Coliban 1. Wimmera Main Chan	1,171,622			1,171,622	30,842	1,202,464	
nels (to be later apportioned to districts)					30,430	30,430	
	1,642,051	169,927	17,007	1.455,117	238,076	1,693,193	1,698,19

2,880,164

. Brought forward

C.—IRRIGATION AND WATER SUPPLY DISTRICTS.

Distributary Works within Districts under the control of the Commission as follow:-

Name of District.	Advances made by State prior to transfer of District to Commission.	Capital written off by Acts 1625 and 1651.	Redemption raid to Treasury.	Balance at Debit at transfer of District to Commission, less Rodemption since paid.	Capital Expenditure from Loans and Revenue since transfer of District to Commission.	Capital Debit at 30th June, 191?.	
	£	£	£	£	£	£	
1. Bacchus Marsh	14,406	8,906	243	5,257	9,827	15,081	
2. Campaspe	61,700	52.685	305	8,710	6,818	15,528	
3. Deakin	70.359	34,748	2,144	33,177	36,417	69.894	
4. Rodney	223,258	149,949	4,280	69,039	$102,\!466$	171,505	
5. Shepparton				}	11,220	[-11,220]	
6. Swan Hill	24,800	19,799	306	4,695	21,731	26,426	
Kerang Centre—	Í	i		[} }	
7. Cohuna	151,213	93,968	512	56,733	42,326	99,059	
8. Dry Lake	1,704	686	299	719		719	
9. Kerang	70,032	35,338	174	34,520	2,770	37,290	
10. Koondrook and	28,405	19,280	1,356	7,769	26,449	34,218	
Myall and Ben- jeroop and Mur- rabit							
Loddon Centre—		}	}	¦ }			
11. East Boort	21,567	14,866	184	6,517		6,517	
12. Leaghur and Meering	1 '	2,543	78	2,422	• •	2,422	
13. North Boort	6,977	4,867	52	2,058		2,058	
14. Tragowel Plains	159,848	124,534	4.14	34,870		34,870	
15. Twelve Mile	5,050	3.250	28	1,772		1,772	
16. Wandella	14,302	9,733	52 	1,517	216	4,733	
Totals	858,684	575,152	10,457	273,075	260,240	533,315	533,31 5
Irrigation Areas— 17. Nyah 18. White Cliffs (including small por-					20,159 38,911	20.159 38,911	
tion of proposed Waterworks Dis- triet)							59,070

D.—NEW WORKS.—Cost to be Apportioned to Districts Benefited.

	86 85 575,	885
2. Pykes Creek and Werribee Scheme— Pykes Creek Reservoir voir Diverting Weir and Distributary Works Lerderderg River Works Lerderderg River Works 10,0 27,0 10,0 28 29 20 20 20 20 20 20 20 20 20		027

Capital Debit at 30th June,
1911.
Exclusive
of Cost of Loui
Flotation.

Brought forward

£ 4,106,461

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 Water Act 1909, Section 10 of the Carrum Drainage Works Act 1905, and Section 278 of the Water Act 1905.

Name of Trust.	Total Advances by State.	Capital written off by Acts 1625 and 1651.	Redemption paid to Treasury.	Capital Debit at 30th June, 1911.
1. Avoca Water Trust	£ 8,709 25,732 21,33; 	£ 2,494 7,732 1,717 11,943	£ 612 1,011 1,116 2,739	£ 5,603 16,989 18,501 41,093

Grand Total

£4,106,461

MALLEE TANKS TRANSFERRED.

STATEMENT showing the loans advanced by the State under the Mallee Tanks Acts and the Municipalities Advances Act 1898 to the undermentioned Shires for the construction of works of water supply, and transferred from them under the provisions of Section 37 of the Water Act 1909, to the debit of the following Waterworks Districts under the control of the Commission.

					1	rans	ferred	to V	Vate	rworks	Dis	triet	o!—									Ne		-
Transferred from Shire of—	Bire	hip.	Karkarooc			Long Lake.		Sea Lake.		Western Wimmera.		Wimmera United.			Wycheproof,		of.	Indebtedness Transferred.						
	. ———— ! £	8.	<u></u>	£	×.	d.	Ĺ	ε.	d.	£	s.	ιΙ.	Ľ	×.	a.	L	8.	J.	2.	8.	J.	£	 s.	d.
1. Birchio	1,548	14	7			- 1								٠.	- 1	812	7	8			. !	2,361	2	3
2. Borung	455	10	10	-930	17]1							2,945	16	9.	1.317	0	Ю			!	7,749	6	4
3. Pimboola	1			621	-1	2							1,258	3	Į!							1,879	G	3
4. Karkarooc	i			13,602	17	ű							145	4	3,						- 1	13,748	1	8
5. Swan Hill	!					•	2.475	·l	2	(H)(H										٠.	- 1	3,375	7	10
Wycheproof						- 1				1,266	1.1	3.		٠.					902	19	$_{3}$	2,169	14	2
Totals	2,004	- · 5	5	15,154	19	6	2,475	.+	2	2,166	18	7	3.449	3	1	5,129	8	6	902	19	3	31,282	18	 6

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, 17,000 square miles, equal to 10,880,000 acres. The extent of land under irrigated culture, for all kinds of crop, is 142,857 acres, an increase of 13,086 acres over the area irrigated in the previous year. About 11,000 acres have been watered under yearly permits granting authority to divert water from streams throughout the State. Further progress has been made during the year in bringing all such diversions under the control of the Commission, 469 permits authorizing diversions for Irrigation, Domestic and Stock, and Power purposes being now in force. This represents an increase of 89 during the year. The number of separate towns supplied, exclusive of the city of Melbourne and its suburbs, is 127, as shown in the following statement:—

Controlling Authorities.		number of Town Supp	plies.	Estimated Population Served.	-
Commission		4 27		86,000	
Waterworks Trusts		87	1	118,000	
Local Governing bodies	,	13		75,000	
Totals		127		279,000	
2.000.0	,		1		

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.

The area irrigated last year (1910-11) shows an increase of 13,086 acres over the area watered in the previous year (1909-10).

STATEMENT OF THE EXTENT OF IRRIGATION AND OF AREAS OF DIFFERENT KINDS OF CROPS WATERED—YEAR 1910-11.

				!			Area	under Irri	gation (Ac	res).		
Nam	e of D	istric t.			Cereals.	Lucerne grown for Pasture and Hay.	Sorghum and other Annual Fodder Crops.	Pastures.	Vineyards, Orchards and Gardens.	Fallows.	Miscellancous.	Total.
Supplied from	Goulh	own Sta	te Waste									
Rodney	1217(1417			• • •	357 27 105	13,699 1,075 415	513 170 155	6,368 854 199	3,907 84 95	500 121 21	163 21	$\begin{array}{c} 25,507 \\ 2,331 \\ 1,011 \end{array}$
Totals					489	15,189	838	7,421	4,086	642	184	28,849
Supplied from K	ow St	wamp Si	tate Wor	ks.								
Dry Lake Kerang		··.			92 5,691	793	50 1,838	400 11,391	6 9	40	1	549 19,763
Totals					5,783	793	1,888	11,791	15	40	2	20,312
Supplied from Wandella East Boort Leaghur and Meeri North Boort Tragowel Plains		lon Stale	. Works.	•••	643 1,354 579 221 8,839 550	306 7 7 9 244 96	117 179 132 147 875	1,902 757 1,009 292 6,741	14 34 15 68	30 60 141		3,012 2,331 1,729 735 16,908
Twelve Mile Totals						662	1,565	$\frac{1,386}{12,087}$		231		$ \begin{array}{c c} & 2,147 \\ \hline & 26,862 \end{array} $
Supplied from Bacchus Marsh Benjeroop and Mur Campaspe Cohuna Koondrook and My Nyah Swan Hill Western Wimmera White Cliffs Totals Lands supplied from Lands supplied direct Works	rall n Kere		th-West		2,374 1,326 941 2,003 966 13,912 1,733	356 41 433 2,850 152 128 1,916 59 240 6,175 157	2 173 7 2,221 109 214 782 23 609 4,140 234	1,771 138 7,995 3,268 173 1,941 25 15,316 1,372	16 19 20 159 12 177 45 926 346 	 40 131 86 257	11 57 149 158 376	4,379 4,379 598 19,578 4,867 1,821 6,922 1,033 2,319 41,896 3,496
First Mildura				••!	981	673			9,878	468		12,000
Supplied from Colil	an St	ate Wor	ks		167	236	272	233	1,758	216	278	3,160
Private Diversions i	n Ker	ang Dis	tricts	••!	1,737	336	198	667	6	•••		2,944
Grand T	otals,	1910 -1	1	!	37,905	25,432	9,527	49,693	17,606	1,854	840	142.857
Grand 's	otals,	1909-1	0		23,715	24,124	8,094	50,541	17,524	4.988	785	129,771

COMPARATIVE STATEMENT OF THE EXTENT OF IRRIGATION 1906-7 to 1910-11.

			Area under	Irrigation (Acre	I).	
		1908-7.	1907-8.	1908~9.	1900 10,	1910⊢11
Goulburn State Works		31,059	83,776	47,730	41,708	28,849
Kow Swamp State Works		22,493	30,217	25,578	15,097	20,31
Loddon State Works		13,056	27,608	30,177	14,363	26,86
Other State Works		22,454	54,628	42,067	32,624	41.89
Kerang North-west Lakes		5,263	8,838	4,621	4,828	3.49
Kow Swamp Works (direct)		$2,\!415$	5,453	4.940	2,807	3,33
First Mildura Trust Works		$9,\!469$	10,876	11,900	12,000	12,000
Coliban State Works		1,850	2,191	3.063	2.997	3,166
Private Works in Kerang District	• • •		8,425	6,797	3,347	2,94
Totals		108,059	232,012	176,873	129,771	142,85

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 Shepparton Irrigation and Water Supply District, the Nyah and White Cliffs Irrigation Areas, and the Axe Creek, Karkarooc, Tyntynder, and Wonthaggi Waterworks Districts were constituted.

In nineteen 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 five districts the Commission made and levied compulsory irrigation charges, details of which are set out hereunder. In connexion with 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-fourth of the estimated full amount required; this charge will, however, be uniformly increased each year so that in three years the full amount will be levied. It is proposed to levy the compulsory irrigation charge in a number of other districts during the ensuing year.

A .- VALUATIONS AND RATES.

Districts Supplied with We for Domestic and Ordinar Use and for Watering Ca or other Stock.	У	Annual Value of Lauds and Tenements.	Rate in the £ made during year ended 30th June, 1911.	Period of Rate.	Estimated Number of Persons dwelling in District.
	IR)	RIGATION Valuation by	I AND WATER SUPPLY	DISTRICTS.	
		Commission.	s. d.		
1. Bacchus Marsh		2,207	· · ·	st July, 1910, to 30th June, 1911	75
2. Benjeroop and Murabit	UR-	3,080	1st Division 1 6 2nd Division 0 9	n n n	170
3. Campaspe	••	13,881	1st Division 1 8 2nd Division 0 10 3rd Division 0 5	7) 2) 1) 2) 11 5) 3) 11 11	710
4. Cohuna		30,489	1st Division 3 0	17	1,660
5. Dearin		82,508	2nd Division 1 6 1st Division 1 0 1 2nd Division 0 6 3rd Division 0 3	st July, 1910, to 30th June, 1911	3,720
6. DRY LAKE		250	(No rate made)		10
7. East Boort		4,429	1st Division 2 0 2nd Division 1 0	" " " " " "	140
8. Kerang		13,084	1st Division 2 6 2nd Division 1 3 3rd Division 0 7½))	660
9. Koondrook A	AND	2,076	4 6	" " "	100
10. LEAGHUR AND MEER	ING	1,461	1st Division 2 0 2nd Division 1 0))))))))))))	110
11. North Boost	• • •	1,965	1st Division 2 0 2nd Division 1 0))	100

A-VALUATIONS AND RATES-continued.

Districts Supplied with Water for Domestic and Ordinary Use and for Watering Cattle or other Steek.	of Lands	Rate in the £ made during year endo-1 30th Juno, 1911.	Period of Rate.	Estimated Number of Persons dwelling in District.
···				
				ĺ

IRRIGATION AND WATER SUPPLY DISTRICTS—continued.

		Valuation by Commission.			đ.		
12. Nуан		859		s. 2	0	1st July, 1910, to 30th June, 1911	200
13. Rodney		109.820	1st Division . 2nd Division . 3rd Division .		0 6 3	37 39 31 39 31 37 31 39 39	5,000
14. Shepparton		2,754		0	8	14th September, 1910, to 30th June, 1911	500
15. Swan Hill		6,507		2	0	Ist July, 1910, to 30th June, 1911	500
16. Tragowel Plains	••	22,702	1st Division . 2nd Division .		$\frac{2}{1}$	32 J2 33 39 32 22	1,000
17. TWELVE MILE		1,146		2	0))))	90
18. Wandella		1,772		2	0	,, ,,	220
19. WHITE CLIFFS		1,704		2	0	,, ,,	650

WATERWORKS DISTRICTS.

20. Axe Creex]	1,405			2	0	16th August, 1910, to 30th June, 1911	300
21. Вівонів	••	23,908	1st Division 2nd Division 3rd Division		1	0 0 6	lst July, 1910, to 30th June, 1911	2 ,45 0
22. KARKABOOC	•••	85,767	1st Division 2nd Division 3rd Division		0	6 9 41	n n n n n	3,200
23. Long Lake	••	40,766	1st Division 2nd Division 3rd Division	٠	ĺ	3 1½ 6¾	n n n n	1,650
24. Sea Lake	• •	63,806	1st Division 2nd Division 3rd Division	١	ĺ	0 0 6	32 21 21 21 22 22 21 22 23	2,400
25. Tyntynder	••	12,346	1st Division 2nd Division 3rd Division	١	1	9 4 <u>1</u> 8 <u>1</u>	1st July, 1910, to 30th June, 1911	600
26. Western Wimmer	A	242,009	1st Division 2nd Division 3rd Division	١.,	0	0 6 3	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	10,250
27. Wimmera United		253,800	1st Division 2nd Division 3rd Division	٠.,	0	0 6 3	21 22 21 22 22 21 23 21 21	8,900
28. WYCHEPROOF		41,252	Ist Division 2nd Division 3rd Division		1	0 0 6))	2,160

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.	during yea	Rate in the £ made during year ended 30th June, 1911.			Period of Rate.		
	URBAN	DIVISIONS	AND	1)1	 STRICTS.		!	
	Municipal Valuation.			,				
29. Bacchus Marsh	6,277		l	а. 6	1st July, June, 1		to 30th	1,100
30. Birchip	4.692		2	6	,,	,,	,,	820
31. DIMBOOLA	4,992	l	1	9	,,	,,	,,	680
32. Lake Boga	858	1	3	0	,,			250
33. MINYIP	2,403	1	3	0	,,	"	,,	500
34. NATIMUK	2,246	1	1	6	,,	,,	,,	420
35. Rainbow	5,027	l	2	6	,,	,,	,,	640
36. RUPANYUP	1,694	1	3	0	,,,	"	,,	450
37. SEA LAKE	1,607	1	3	0	,,	,,	,,	450
38. WYCHEPROOF	2,957		2	0	i	,,	"	700
39. Wonthaggi	15,737	• •	1	3	1st Januar June, 19		1, to 30th	3 ,700
	1	COLIBAN	SYSTE	IM.	June, 18	,11	1	
			8.	d.				
10. Coliban	318.061 	On Valuati up to £300 (minimum From £301 to £700 Over £700 Vacant lands	1 n 20s.) up 1	6 3 0 6	Jane, 19		to 30th	66,000
	11	ATERWORK	S TR	US'	rs.			
	Valuation by	1					- 1	
	Commission.			J			ì	
1. LODDON UNITED	75,603	1st Division		d. 9	Lat. Taxina	101	1 45 21.4	2,350
H. LODDON UNITED	10,000	2nd Division		4 l	1st Janua Decemb			2,000
		3rd Division		2	Decento	GI, 101	١ ١	
	Municipal	10111 1011	0	- 1				
	Valuation.	İ					i	
2. Avoca	27,033		0	6 -	1st Januar	ry, 191	0, to 31st]	1,600
					Decemb			
	27,454		()	$\frac{11}{2}$	1st Januar	ry, 191	1, to 31st [
		1			Decemb	er, 191	1	
3. Carrum	9,427	Lat Division		()	Ist Jaanar			700
	Ì	2nd Division		()	Decemb	er, 1916)	
		3rd Division		6				
		4th Division		()			. 1	
	11,735	1st Division		0	1st Janua			
		2nd Division		6	Decemb	er, 191	1	
		3rd Division		3				
	ì	4th Division	43	6				

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 for which Charge is made.
RODNEY	265,025	181.094	46,536	5s.	 1st October, 1910, to 31st March, 1911
Shepparton	3,355	3,355	3,355	ōs.	1st November, 1910, to 31st May, 1911
SWAN HILL	13,579	11 103	11,103	5s.	1st October, 1910, to 31st March, 1911
Nуан	2,923	2,420	6,050	3s. (one-fourth charge)	1st August, 1910, to 30th April, 1911
WHITE CLIFFS	5,874	5,361	13,402	3s. (one-fourth charge)	1st August, 1910, to 30th April, 1911

CONTRACTS.

STATEMENT OF CONTRACTS ENTERED INTO DURING THE YEAR ENDED 30TH JUNE, 1911.

No.	Name of Contractor.	Work or Snpply.	(Loan and Vote
			£ s. e
569 570	The Austral Otis Engineering Coy	C. I. Pipes and Special Castings, Wonthaggi C. I. Pipes, Wonthaggi	9,171 13 7,478 7
571	Ltd. T. A. Vinnicombe and A. H. Vinnicombe (trading as Vinnicombe Press)		137 11 1
572	combe Bros.) T. A. Vinnicombe and A. H. Vinnicombe (trading as Vinnicombe Bros.)		137 7
573 574		Caunie Channel, Long Lake	110 10
575	James Martin	Cannie Channel, Long Lake	100 10
576	James Martin	Commission of the commission o	22 0
577	James Martin	Cannie Channel, Long Lake	106 1
5 78	Determined.		
579	Determined.		
$\begin{array}{c} 580 \\ 581 \end{array}$	Determined. William J. Cavanagh and T	Boorong Channel, Long Lake	116 12 1
001	Cavanagh (trading as Cavanagh Bros.)		110 12 1
582	John O'Connor	. Main Southern Channel, Nyah	132 13
583	Edward Fitzgerald	. Main Southern Channel, Nyah	138 19
584 585	1 II There is a	Darley Channel, Bacchus Marsh	642 1
586 586	I I! Snavay	Spin Channel, Shepparton	64 12 1 131 13
587	James V. Cain	(A) 16 D I M I.	106 7
588	B. Deutscher	m 11 - 7 - 2 - 2 - 21 - 1 - 1 - 1 - 1 - 1 - 1 -	50 5
589	Determined.		
590	Determined.		
591		. Spur Channel, Shepparton	55 13
592 593	M. Malone Robison Bros. and Coy. Ppty Ltd.	Spur Channel, Shepparton	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
594	!	. Riveted Steel Pipes and Castings, Cohuna	253 12
595	A. H. McDonald and Co	. Gas Engine and Suction Gas Plant, Wycheproof	405 10
596		. C. I. Pipes and Special Castings, Wonthaggi	4,490 5 1
597	Orton and Burns	Hydrants, Wonthaggi	271 15
598 500	John Danks and Son Ppty. Litel	. Sinice Valves, Covers, and Air Escapes, Wonthaggi	
600 599	C. Monteath and Sons The Austral Otis Engineering Coy Ltd.	C. I. Pipes and Special Castings, Wonthaggi	429 10 1,123 9
100	E. Baker	Posts and Feneing, Laanecoorie	17 0
602	Macdonald Bros	. Commission's Office, Murtoa, Wimmera United	767 5
603	James Martin		113 5
$604 \\ 605$	J. M. Peebles		66 1
606 606	D Hankle	North Mastern Observal Lange Lake	158 8 131 5
607	R. Guilmartin	la a rue di a la la la Tala	110 10
608	James Crothers	Mr. in Control Channel Winners United	204 3
609	A. Brennan	Stock and Domestic Supply Channel, Werribee	35 0
610	Peter McNamara		185 5
	F. J. McMahon E. Fitzgerald		111 0
611	E. Pitzgeraid	Mari Carthan Channel Mantanden	185 5 148 19
611 612	Malada ISadlar		140 19
$611 \\ 612 \\ 613$	Malcolm Findlay		138 9
611 612 613 614	Malada ISadlar	Main Southern Channel, Tyntynder	138 9 141 11 1
611 612 613 614 615 616	Malcolm Findlay Malcolm Findlay Malcolm Findlay D. C. Moriarty	Main Southern Channel, Tyntynder Main Southern Channel, Tyntynder Deviation of Distributary Channel, Column	}
611 612 613 614 615 616 617	Malcolm Findlay Malcolm Findlay Malcolm Findlay D. C. Moriarty John Ahern, jun.	Main Southern Channel, Tyntynder Main Southern Channel, Tyntynder Deviation of Distributary Channel, Column Spur Channel, Shepparton	141 11 1 153 10 224 5 1
611 612 613 614 615 616 617 618	Malcolm Findlay Malcolm Findlay Malcolm Findlay D. C. Moriarty John Ahern, jun. M. Millerick, for Millerick Bros.	Main Southern Channel, Tyntynder Main Southern Channel, Tyntynder Deviation of Distributary Channel, Column Spur Channel, Shepparton Spur Channel, Shepparton	141 11 1 153 10 224 5 1 33 7
611 612 613 614 615 616 617 618	Malcolm Findlay Malcolm Findlay Malcolm Findlay D. C. Moriarty John Ahern, jun. M. Millerick, for Millerick Bros. L. Tuana	Main Southern Channel, Tyntynder Main Southern Channel, Tyntynder Deviation of Distributary Channel, Column Spur Channel, Shepparton Spur Channel, Shepparton Spur Channel, Shepparton	141 11 1 153 10 224 5 1 33 7 145 4
611 612 613 614 615 616 617 618 619 620	Malcolm Findlay Malcolm Findlay Malcolm Findlay D. C. Moriarty John Ahera, jun. M. Millerick, for Millerick Bros. L. Tuana Arthur Sims	Main Southern Channel, Tyntynder Main Southern Channel, Tyntynder Deviation of Distributary Channel, Column Spur Channel, Shepparton Spur Channel, Shepparton Spur Channel, Shepparton Theobald's Channel, Long Lake	141 11 1 153 10 224 5 1 33 7 145 4 60 0
611 612 613 614 615 616 617 618	Malcolm Findlay Malcolm Findlay Malcolm Findlay D. C. Moriarty John Ahern, jun. M. Millerick, for Millerick Bros. L. Tuana	Main Southern Channel, Tyntynder Main Southern Channel, Tyntynder Deviation of Distributary Channel, Column Spur Channel, Shepparton Spur Channel, Shepparton Spur Channel, Shepparton	141 11 1 153 10 224 5 1 33 7 145 4

CONTRACTS ENTERED INTO DURING THE YEAR ENDED 30TH JUNE, 1911-continued.

¥o.	Name of Contractor.	Work or Supply.	Amount (Loan and Vote).
		P14.11	£ s. d
	25.36.1.	Brought forward	29,605 t1 4 176 18 7
$\frac{23}{24}$	M. Malone	McKenzie-Lancaster Loop Channel, and King's	524 7 10
05	M Malone	Spur Channel, Rodney Cussen-Kavanagh Loop Channel, Rodney	559 18 11
25 3e	M. Malone	M . T	530 1 9
26 27	James Fitzpatrick	Flight's Spurs, Cussen Channel, Rodney	353 6
28	J. Piper	Spur Channel, Shepparton	37 14
29	James Peebles	Spur Channel, Shepparton	70 16
30	J. Livingston (trading as J. and J. Livingston)	Distributary Channel, Columa	181 7
31	Albert Thompson (trading as Thompson Bros.)	Distributary and Spur Channels, Cohuna	357 10 10
32	Albert Thompson (trading as Thompson Bros.)	Distributary and Extension Distributary, Cohuna	366 7
33	Munn and Traeger	Main Channel, White Cliffs	176 1 1
34	I. S. Drape	Contour Survey of portion of Pental Island	161 0
35	M. Malone	Deep Creek Channel, Cohuna	2,168 5
36	Frederick Charles Fasham	Firewood, Koondrook	104 3
37	A. J. Harman	Firewood, Koondrook	112 10
38	D. Douglas	Twin Earthen Storage Tanks, Jeparit	2,196 10 29 6
39	Thomas W. Kent and John J. Kent	Gnarwee Channel, Long Lake	29 6
	(trading as Kent Bros.) G. Weymouth Ppty. Ltd.	Centrifugal Pump, Wycheproof	100 0
10	T Deberty	G 01 1 Gl	22 1
$rac{1}{2}$	J. Doherty Gollan Bros	[g	18 14 1
3	F. Cooling and W. Wilson	I C	22 2
4	T. Moynihan	Spur Channel, Shepparton	$7\overline{3}$ $\overline{2}$
15	Joseph Tyndall	Spur Channel, Shepparton	24 8
£6	J. Pullin, for Pullin Bros	la a 1 a 1	28 0
17	W. J. Cahill		38 1
18	William Sands	Bitchigal Channel, Sea Lake	169 15
19	William Sands	Bitchigal Channel, Sea Lake	169 10
50	W. Mathers	Jeparit Channel, Western Wimmera	191 15
51	G. Baston		206 12 1
52	R. M. Drammond and George Snell		331 1
53	Joseph Nixon and Sons	Special Castings and C.I. Pipes, Jeparit, Beulah, Minyio, and Rupanyup, Wimmera-Mallee	1,324 4
54 55	Johnson and Sons Ppty. Ltd Determined.	Mild Steel Serews, Waranga Reservoir	44 11
56	G. R. Wilkinson and M. Findlay	26-mile Tank Channel, Tyntynder	$96 \ 0 \ 95 \ 11$
57	G. R. Wilkinson and M. Findlay	26-mile Tank Channel, Tyntynder	95 11
58	Determined.	26-mile Tank Channel, Tyntynder	139 0
59 20	J. G. Spence	26-mile Tank Channel, Tyntyllder	100
60 61	Determined. M. Malone	Koyuga Channelling, Rochester	894 15
61	John Ahern	Koynga Channelling, Rochester	1,015 2
63	Matteo Gaspero	Washington Character	1,077 18 1
6 4	John Ahern	Koyuga Channel, Rochester	862 15
65	Thomas Moore	Nanzcella Channels, Rochester	611 5
66	John McKimmie	Spur Channels, Nanneella and Rochester	305 0
67	W. Schmedes	1,000 tons of Firewood, Maldon, Coliban District	235 8
6 8	W. Mathers	Ellam Channel, Western Wimmera	144 8 1
69	W. Mathers	Antwerp Channel, Western Wimmera	147 5
70	W. Mathers		160 5
71	W. Mathers		194 14 186 16
72 72	W. Mathers	Water Winner	87 15 1
73 74	W. Mathers John Danks and Son Ppty. Ltd.	C. I. Pipes and Special Castings, Campbell's Creek,	216 16
75	D. Cuilmantin	Coliban Storage Tank, Nyah	105 8
75 76	R. Guilmartin	West Talbort Channel Long Lake	158 10
76	E. H. Jones	West Talkert Channel Long Lake	144 15
77 78	E. H. Jones	Elland Channel Wortown Withmorn	137 11 1
78	A. Castle Thomas Malone	Damas Fortan Channel Bookester	506 19
		Carried forward	48,000 0
	•		

Contracts entered into during the Year ended 30th June, 1911—continued.

No.	Name of Contractor.	Work or Supply.	(Lean and Vote).		
			£ s. d		
	}	Brought forward	48,000 0 9		
6 80	Thomas Malone	Bamawm Eastern Channel, Rochester	472 0 10		
681	Thomas Malone	Bamawin Eastern Channel, Rochester	475 9 9		
6 82	M. J. Fitzpatrick	McColl Channel Deviation, Rodney	479 7		
683	John McKimmie	Hector Spur Channel, Rodney	332 14 (
684	John McKimmie	Craven Spur Channel, Rodney	87 15		
685	Drummond and Snell	Weatherboard Cottage, Nyah	336 13		
686	Munn and Traeger	Wargan Channel, White Cliffs	333 1 (
687	John Danks and Son Ppty. Lt		411 17		
688	John Hayes	Murnungin Channel, Long Lake	114 15 (
639	J. Hayes	Murnungin Channel, Long Lake	122 15 (
690	J. Hayes	Murnungin Channel, Long Lake	126 15 (
691	E. S. Watts and A. T. Henry	. Joop Channel, Western Winnnera	134 5 (
692	E. S. Watts and A. T. Henry	Joop Channel, Western Wimmera	164 0 0		
6 93	E. S. Watts and A. T. Henry	Joop Channel, Western Wimmera	137 5 (
694	E. S. Watts and Λ. T. Henry	Joop Channel, Western Wimmera	171 0 0		
695	E. S. Watts and A. T. Henry	Joop Channel, Western Wimmera	185 5 (
6 96	E. S. Watts and A. T. Henry	Joop Channel, Western Wimmera	160 15 (
697	E. S. Watts and A. T. Henry	Joop Channel, Western Wimmera	153 5 (
698	E. S. Watts and A. T. Henry	Joop Channel, Western Wimmera	148 0 (
699	E. S. Watts and A. T. Henry	Joop Channel, Western Wimmera	146 15 (
700	J. Hayes	Main Southern Channel, Tyutynder	154 5 10		
701	John Hayes	Main Southern Channel, Tyntynder	100 17 3		
702	J. Hayes	Main Southern Channel, Tyntynder	73 6 3		
703	A. J. Fisher	Satton's Channel, Sea Lake	148 6 (
704	M. Hogan	Woomelang Channel, Sea Lake	188 10 (
705	A. J. Fisher	Woomelang Channel, Sea Lake	162 5 (
706	James Crothers	Minyip Tank Channels, Wimmera United	395 10 (
707	Determined.				
708	Determined.				
709	Determined.				
710	Jas. Hall	Outfall Spur Channel, Shepparton	36 9 8		
711	Albert Thompson	Southern Channel, Koondrook	357 0 0		
712	Albert Thompson	Southern Channel, Koondrook	378 0 0		
713	James Howe	Stable at Waranga Reservoir	60 0 0		
714	L. Noonan	Spur Channel, Shepparton	36 15		
715	James Martin	Removal of Block, and Completion of Embank-	85 15 (
		ments, Little Picanniny Creek, Waranga-Mallee	1		
716	Geo. W. Pinner	Outfall Spur Channel, Shepparton	72 10 9		
717	A. J. Fisher	Woomelang Channel, Sea Lake	40 17 11		
718	Jas. Hall	Outfall Spur Channel, Shepparton	38 2 11		
719	J. W. Jones	Spur Channel, Shepparton	36 15 10		
720	H. W. L. Tucker	Storage Tank, Beulah	710 15 0		
721	M. Moloney (trading as Molon	ey Boorong Channel, Sca Lake	144 14 2		
	Bros.)		i		
722	M. Moloney (trading as Molor	ey Boorong Channel, Sea Lake	155 0 2		
	Bros.)		}		
723	A. J. Fisher	Cronomby Channel, Sea Lake	86 15 0		
724	Edward Shepherd	Firewood, Cannie Ridge, Long Lake	162 10 0		
725	James Sayers	Koro-Ganeit Channel, Tyntynder	111 0 0		
726	James Sayers	Koro-Ganeit Channel, Tyntynder	107 5 0		
727	Determined.	0.00			
728	H. Codling and Co	Offices for Commission, Swan Hill	899 0 0		
729	I. S. Drape	Contour Survey of Parish of Benjeroop, 181 sq.	131 5 0		
700	Too Toolshood Some	miles, at £7 per sq. mile	_		
730	Jos. Lockhart, jun.	Purchase of Machinery, Koondrook	525 0 0		
731	Henry Angus	Purchase of Machinery, Swan Hill	105 0 0		
732	James Sayers	South Ultima Channel, Long Lake	123 0 0		
733	R. Guilmartin	Allison's Channel, Tyntynder	114 16 8		
734 725	M. J. Phyland	East Kunat Channel, Long Lake	142 10 0		
735	E. Fitzgerald	Chillingollah Channel, Tyntynder	132 8 4		
736	E. Fitzgerald	Chillingollah Channel, Tyntynder	149 0 10		
7 37	Geo. W. Pinner	Outfall Spur Channel, Shepparton	212 6 8		
738	Hugh Lavery and Patrick Lave		1,292 5 0		
73 9	I. S. Drape	Contour Survey, Dingee-Tandarra, 261 sq. miles,	183 15 0		
740	W/-14 M 3 72 O m	at £7 per sq. mile			
74 0	Walter Munn and E. G. Traege	Wargan Channel, White Cliffs	337 12 9		
		1			
		Carried forward	60,885 1 4		

CONTRACTS ENTERED INTO DURING THE YEAR ENDED 30TH JUNE, 1911-continued.

No.	Name of Contra	ctor.		Work or Supply.	Amount (Loan and Vote).				
							£	s.	
741				Brought forward			60,885	Į	4
741	Walter Munn and E.	G. T	raeger	Main Channel, White Cliffs			321	11	-8
742	Thos. Elliott			Cannie Channel Branch, Long Lake			122	3	9
74 3	Alfred Castle			Ellam Channel, Western Wimmera			142	15	0
744	H. W. L. Tucker			Storage Tanks, Gama			320	5	-0
745	H. Walker			Firewood, White Cliffs			500	0	0
746	J. Spellacy			Firewood, White Cliffs			550	0	0
747	M. J. Hayes			Firewood, Nyah			72	10	0
748	F. O. Wallin			Firewood, Nyah			825	0	0
749	F. O. Wallin			Firewood, Swan Hill				12	6
	R. Guilmartin			Main Southern Channel, Tyntynder			156	-	10
	Mephan Ferguson Pp			Spiral Riveted Pipes, Jeparit			1,560		0
	Alex. Rangott			26-mile Tank Channel, Tyntynder		• •	158		2
	H. B. Irwin			Batchica Channel, Karkarooc			141		$\bar{\mathbf{o}}$
	M. Corrigau			Lee I o T i		••	56	ر آزا	ŏ
	Frederick John Store	17	• •	Meter Wheels, Waranga-Mallee	• •		756	6	10
756	Albert Thompson		• • •		• •	•• '	230		5
100	wroett Tuombsou	• •	• •	Southern Spur Channel, Koondrook	• •	•••	200	11	
				Total			67,090		6

In addition to the works carried out under the above contracts, a large extent of channel work was, owing to the difficulty of obtaining tenders and the necessity of expediting construction, carried out as piece-work at current rates. This system was adopted for the Goulburn distributary works to the extent of an expenditure of some £5,000.

WORKS CARRIED ON OR COMPLETED DURING THE YEAR ENDED 30TH JUNE, 1911.

COLIBAN DISTRICT.

Extensions and improvements of pipe reticulation were carried out in Bendigo, Eaglehawk, and Castlemaine. The lifting of the 1-in. and $1\frac{1}{2}$ -in. galvanised wronghtiron mains and relaying with 4-in. cast-iron are being steadily continued.

Extensive renewals of culverts and flumes on the Raywood and Sebastian Race were carried out, and wherever practicable flumes were replaced with Monier pipe syphons.

A sum of £1,000 was spent in the Castlemaine District on race extensions at Ravenswood, Harcourt, Barker's Creek, and Gaol Hill.

During the year a separate waterworks district, comprising the lands commanded by the Axe Creek Race, was constituted under the name of the Axe Creek Waterworks District. Provision is made in the Water Act 1909 for the inclusion in separate districts of lands in the Coliban area, and it is proposed to constitute districts similar to Axe Creek District in all cases where the revenue from such lands 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 £13,300. These consisted principally of distributary channels and outlets necessary for the effective and regular delivery of supplies assigned to irrigable lands.

SWAN HILL DISTRICT.

The construction of new channels, and the remodelling of old channels and structures, necessary for delivery under a new rotation system of the supplies now assigned to the district have been carried out.

DISTRICTS ADMINISTERED FROM KERANG CENTRE.

In that portion of the Cohuna District, previously known as No. 1 Riding, several new channels have been constructed, while old channels have been remodelled, outlets provided, and all other necessary works carried out in preparation for the introduction of the compulsory irrigation charge system, under which a quantity of water is apportioned as a water right to each holding and delivered under a proper rotation scheme. It is proposed next year (1911–12) to make this portion a separate district, under the name of Cohuna, to be controlled by an engineer stationed at Cohuna Township.

The remaining portion of the old Cohuna district will be also formed into a separate district, under the name of Gannawarra, which in like manner will be controlled by the local engineer referred to. It is proposed to introduce the compulsory irrigation charge system in this portion as soon as the channels have been so extended and remodelled as to enable a full supply to be given. It is anticipated that these works will be completed before the end of next year.

In the Koondrook and Myall and Benjeroop and Murrabit Districts new channels, structures, and outlets were constructed in preparation for the delivery of water by rotation to the irrigable lands under the water rights to be apportioned under the compulsory charge system next year (1911–12). These two districts, together with a small portion of Cohuna, will be united, so as to form one district with the name of Koondrook.

In the districts of Gunbower West, Kerang East, Macorna North, South Kerang, Marquis Hill, and portion of Wandella, which this year have been united into the one district of Kerang, works of improvement were much retarded by unfavorable weather. Arrangements will be made to carry out such works at the first favorable opportunity.

Boring has been proceeded with below the Kow Swamp Headworks, "Torrumbarry," with a view of ascertaining whether it would be feasible to construct a diverting weir in the Murray River to provide a better supply of water to the districts dependent on the Kow Swamp works, and to the North-west Lakes, and to give a gravitation instead of a pumped supply to Cohuna and Koondrook districts. It is expected that sufficient information for the preparation of designs and estimates will be available before the end of next year.

DISTRICTS ADMINISTERED FROM LODDON CENTRE.

These are the Tragowel Plains district on the east side of the Loddon River, and the East Boort, Leaghur and Meering, North Boort, Twelve-Mile, and Wandella districts on the west side.

Works for the year have been confined to maintenance and renewals of structures. Next year it is proposed to construct a new head sluice for the Kinypanial Creek, which is the principal offtake for the districts on the west. Remodelling of works and provision of measuring outlets will be proceeded with in the Tragowel Plains District to provide for the increased supply from the Goulburn Works, which should be available next year. It is proposed to unite the districts on the west side of the Loddon into one district, to be known as Boort.

CAMPASPE DISTRICT.

This district will be considerably reduced by excision of the portion north of the Main Western Channel. The supply from the Campaspe River, which formerly had to be distributed over the whole area and was rarely adequate therefor, is now available for the remaining portion of the district. Necessary maintenance works have been carried out during the year.

DEAKIN DISTRICT.

In this district certain portions are to be excised and constituted new districts with closer settlement conditions. In the other portion of the district work for the year has been confined to maintenance.

An investigation of a drainage scheme for the low-lying lands that suffer by flooding from the Wanalta and Cornelia Creeks has been authorized.

BACCHUS MARSH-WERRIBEE SCHEME.

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

At Baechus Marsh a channel has been constructed from Maddingley syphon to right bank of Lerderderg River, at Darley. A suspension bridge is being constructed at this point for conveyance of water across the river for the supply of the cast Lerderderg irrigable lands. The new works will allow the irrigable area to be increased from 600 to about 3,350 acres. It is intended next year (1911–12) to apportion water rights to, and levy a compulsory charge on, the irrigable lands.

At Werribee the channels for domestic and stock supply for the non-irrigable portion of the Werribee Estate are being proceeded with, while works are to be undertaken for the irrigation of about 1,000 acres.

WHITE CLIFFS DISTRICT.

Work during the year consisted mainly of building some further structures and outlets in the irrigable area, and the extension of domestic and stock supply channels in the back country. It is proposed later to constitute the "back" country, where already there are some 18 miles of channels, a waterworks district.

NYAH DISTRICT.

The works in this district were added to by some new structures, and were overhauled and brought into use for the irrigation season. The Nyah pumping plant is also being utilized for the supply of the new Tyntynder Waterworks District constituted during the year.

LONG LAKE WATERWORKS DISTRICT.

Considerable alterations were made in the boundaries of this district during the year. An area of about 120 square miles in the northern part was transferred to the Tyntynder District, as it was more easily and economically supplied from the Nyah pumping plant. The district was extended on its south-western, eastern, and southern boundaries by the inclusion of portions (aggregating 65 square miles) of the parishes of Kunat Kunat, Korrak Korrak, Cannie, Tittybong, and Lalbert. Some further extensions of the district southerly and south-westerly are contemplated.

During the year tenders for the construction of 45 miles of channels have been accepted.

The erection of the second lift pumping plant for the supply of the high country known as Cannie Ridge is completed, and the channels to serve this hitherto unwatered country are almost completed.

The reticulation and works for the supply of Ultima Township are finished. The plant, consisting of a windmill and pump supplying an 80,000 gallon concrete standpipe, is giving satisfaction.

TYNTYNDER WATERWORKS DISTRICT.

The Tyntynder Waterworks District has been constituted with an area of about 230 square miles; considerable extensions will from time to time be made westerly to serve the interior country as it becomes settled. This district will be served from the Nyah pumping plant.

During the year, tenders for the construction of 30 miles of new main and branch channels have been accepted, and extensive surveys are in hand for necessary additions.

WIMMERA WATER SUPPLY.

WESTERN WIMMERA AND WIMMERA UNITED WATERWORKS DISTRICTS.

During the year steady progress has been made with the construction of works for the diversion northwards of the Lake Lonsdale storage water, and as much of the Wimmera River water as practicable. The Main Central Channel, to carry these waters to the branch channels of the Wimmera United Waterworks District and a supplementary supply to the Sea Lake system of channels when required, is now complete to the offtake of the Marma Branch Channel, a distance of some 42 miles from Lake Lonsdale. The remainder of the Main Central Channel to the Yarriambiae Creek will be constructed inunediately, and other main channel feeders will be pushed on during the coming year.

Contracts for 50 miles of branch channels have been let--45 miles in the Western Wimmera Waterworks District, and 5 in the Wimmera United Waterworks District.

The Jeparit town supply gravitation scheme has been completed with the exception of the reticulation, which is well advanced. The whole of the works, costing about £4,900, should be in operation next year.

The necessary plans are now being prepared for the carrying out of the proposed extensive additions and improvements to the existing supplies at Minvip and Rupanyup, the estimated cost being £2,250 and £2,500 respectively.

BIRCHIP, SEA LAKE, AND WYCHEPROOF WATERWORKS DISTRICTS.

Further progress has been made with extensions of the channel system of these districts, tenders having been accepted for the construction of 30 miles of branch channels. Surveys have been made for some 65 miles of additional channels to serve large areas in the parishes of Toort, Wangie, Murrungia, Bunguluke, Wycheproof, and in the eastern portion of Thalia. It is expected that the construction of these channels will be proceeded with in the coming year.

Extensive improvements to the Wycheproof town supply, consisting of a new

Extensive improvements to the Wycheproof town supply, consisting of a new earthen storage reservoir with a capacity of 40,000 cubic yards, new pumping plant and rising main, additions to existing service basin (increasing its capacity to 80,000 gallons), and extensions of reticulation, have been completed and will provide a much improved service to the town.

A scheme for the reticulation of the township of Woomelang has been prepared, and should be carried out during the ensuing year.

KARKAROOC WATERWORKS DISTRICT.

The Karkarooc Waterworks District, embracing practically the whole of the settled portions of Karkarooc Shire (except the parish of Bitchigal and the eastern portions of the parishes of Minapre and Cronomby) has been constituted. The present area of the district, which includes that portion of the shire lately within the Wimmera United District, is about 850 square miles, but large extensions northerly to embrace the new country now being opened up will be made from time to time.

Extensive works for the improvement and enlargement of the existing channels and the construction of new branch channels have been undertaken. Contracts for 25 miles of branch channels have been let during the year, and plans have been prepared for the construction of some 30 miles in addition.

A large amount of survey work for the location of other new channels is now being carried out. These surveys will also disclose whether it is practicable to serve the Ouyen District by any northward extensions.

The reticulation of Beulah Township is being proceeded with. The scheme, which is estimated to cost £4,600, provides for a storage reservoir (already completed), the erection of a reinforced concrete standpipe, with a capacity of 120,000 gallons, and the installation of a suitable pumping plant.

14250.

WONTHAGGI WATER SUPPLY.

The scheme for the supply of Wonthaggi, which was commenced by the Department of Mines and was, at the request of the Government, taken over by the Commission, is nearing completion. A reticulation service has been provided in the town, and a temporary supply was given during the year. The reservoir at Lance Creek will be far enough advanced to provide a good supply for the ensuing summer.

GOULBURN MAIN CHANNELS AND DISTRIBUTARIES.

The extension of the Western Main Channel from Picaninny Creek to Serpentine Creek, a distance of 29 miles, has been pushed on as rapidly as the unfavorable season would permit. It is expected that the work will be ready for the supply of Goulburn water to the Tragowel Plains District early in 1912.

Distributary channels, totalling 117 miles in length, to serve areas proposed to be constituted new Irrigation and Water Supply Districts with closer settlement conditions, on the western side of the Goulburn River have been constructed in the parishes of Bamawin, Bochester West, Nanneella, Koyuga, and Tongala.

On the eastern side of the Goulburn River a system of distributary channels has been constructed throughout the Shepparton Irrigation and Water Supply District of 3.500 acres.

The total expenditure for the year on Goulburn Main Channels and Distributary Works was £72.720.

LODDON-AVOCA PROPOSED WATER SUPPLY SCHEME.

A scheme for a domestic and stock supply to an area of about 600 square miles, between the Loddon and Avoca Rivers, north of Borung and Wychitella, has been prepared and submitted to the land-holders interested for their consideration.

LAANECOORIE WEIR.

The work of restoring the embankment of Laanecoorie Weir, destroyed by the great flood of August, 1909, has been carried out at a cost of £13,000.

OUYEN DISTRICT.

A drought reserve tank, with capacity of 40,000 cubic yards, has been completed and partly filled at Boulka. At Yellangip Plain, progress with a similar work was stopped by the phenomenal rains of February, 1911, which covered the site for the tank to a depth of several feet. Work will be resumed as early as practicable.

NORTHERN MALLEE WATER SUPPLY.

At the request of the Government the Commission has arranged to take over from the Department of Agriculture the work of boring for and storing water in the Mallee country north of the township of Ouyen. This includes all exploratory work of determining the presence and quality of underground supplies, the putting down of permanent bores where satisfactory underground supplies have been discovered, and equipping the same with pumps and troughs for the use of settlers. In the area where underground water is not found, including the country east of Ouyen and north of Lake Tyrrell, it is proposed to construct large tanks at convenient points; these tanks are, however, only to be used as reserves against droughts, and not for the ordinary use of settlers, who in every case must make the necessary tank provision on their own holdings. In addition to the works mentioned, the Commission is, at the request of the Government, undertaking the clearing of the roads in the areas mentioned. It is estimated that the outlay for the ensuing year on these works will be some £28,000, but the greater part of this amount is covered by a small acreage charge already added to the purchase price of the land.

WORKS CONTROLLED BY OTHER AUTHORITIES.

During the year a number of works was undertaken by other authorities on the recommendation of the Commission, which is now, under the Water Act 1909, authorized to deal with such matters.

A new Trust to carry out and control a supply for the township of Trentham was constituted. The supplies to the towns of Avoca and Colac were practically finished. Pipe additions were made by the local authorities at Avenel, Kerang, Nagambie, Shepparton, Traralgon, Wangaratta, and Warracknabeal, while works are proceeding for the improvement of supplies at Donald, Hamilton, Horsham, Leongatha, Mooroopna, Rutherglen, and Tatura. The First Mildura Irrigation Trust is also carrying out an improved pipe service to Mildura township, and is providing a pumping plant and mains for the Deakin Avenue Irrigation Area.

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 considerably advanced, the Yarra and Saltwater Rivers and their

tributaries having received particular attention.

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 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.

The right of the State to the use and flow and control of water in rivers, creeks, streams, lakes, lagoons, and swamps is being asserted, and persons diverting water are required to obtain authority under licence or yearly permit. This is proving satisfactory in establishing efficient control over antural waters throughout the State.

The number of authorized diversions in force during the year 1910-11 was-

		С.	•
Yearly permits		 	469
Licences		 	9
${f T}$	otal	 	478

GENERAL.

ALLOTMENT OF WATER RIGHTS AND CHARGES THEREFOR.

The irrigation districts which have an adequate and reliable water supply are making substantial progress. This is in part due to the character of the supply, and in part to the compulsory charge for water, which is a potent incentive to its larger use. Last year water rights were allotted and compulsory charges imposed in five districts, viz.: -Shepparton, Rodney, Swan Hill, Nyah, and White Cliffs. In addition to these, water rights will be allotted next year to Cohnna, Koondrook, and Bacchus Marsh Districts.

In Rodney the water right apportionment is 3 acre inches for each irrigable acre commanded; in Shepparton and Swan Hill the allotment is 1 acre foot, or 12 acre inches for each irrigable acre commanded, and this will be the apportionment in Bacchus Marsh, Cohuna, and Koondrook districts; in Nyah and White Cliffs it is $2\frac{1}{2}$ acre feet, or 30 acre inches for each acre commanded. The price of water in Shepparton, Rodney, Cohuna, Koondrook, and Swan Hill next year will be 5s. an acre foot; in Nyah and White Cliffs, 6s. an acre foot; and in Bacchus Marsh, 20s. an acre foot. In Nyah and White Cliffs the charge mentioned represents about one-half of the amount required. This will be increased annually, until in two years the full amount is levied.

Water will be supplied next year to all settlers who are prepared to use it in Nanneella, Bamawm, Koyuga, and Tongala districts; but the compulsory charge will not be imposed until 1912–13. The price next year will be 5s. an acre foot.

DISTRIBUTION OF WATER UNDER ROTATION.

Before the passage of the Amending Water Act, water was delivered for irrigation as ordered by the land-owners. The volumes ordered varied widely from day to day, or from week to week; sometimes the demand would be largely in excess of the supply, sometimes there was no demand, and the water which filled the channels ran to waste.

This lack of system caused an excessive waste of water when the demand was irregular, and often great delay in supplying it in dry seasons, when there was a general demand. Measurements made showed that in many cases more water was wasted than was used.

Such waste curtails the efficiency of pumping plants and the value of reservoirs. To prevent it, the Commission proposes next season, in districts having the compulsory charge, to institute a rotation schedule for the deliveries of water, in which the days on which water will be delivered to each user will be fixed in advance. This will enable users to make arrangements for irrigating in advance, and the Commission to turn into channels only the water required.

AGRICULTURAL PROGRESS.

Before these allotments of water could be made many miles of new channels had to be built, old channels enlarged, and new and larger pumps erected on the Murray. The Commission has been engaged on this work for the past three years. It has cost a large sum of money, but it has given these districts a much larger and more reliable water supply, and created in farmers and fruit-growers, who believe in irrigation, a confidence they lacked before. As a result, new activity is being manifested, land is being graded, lucerne and other fodder crops seeded, orchards and vineyards planted. Over 700 acres of new orchards have been planted in Rodney this season, a larger area has been planted to trees and vines in White Cliffs, and substantial additions have been made to the intensively cultivated areas in Swan Hill and Cohuna.

In order to enable settlers who arrived late this year to have a summer supply of fodder, the Commission, by arrangement with the Closer Settlement Board, has ploughed, graded, and seeded to lucerne about 3,000 acres of land in tracts of from 5 to 20 acres on individual blocks. It also prepared and seeded several hundred additional acres to annual fodder crops. This is probably the greatest increase in the area seeded to lucerne made in one year since the irrigation districts were started.

It is as yet too early to forecast the contribution to the State's wealth which these new settlers will make. Much of their work is at present preparatory. They are building fences, putting up farm buildings, digging ditches, planting trees, and getting their land ready for cultivation. Notwithstanding this, there are many who have been in the State less than a year who are making large returns each month.

FINANCIAL IMPROVEMENT.

The increased use of water and the compulsory charge for the volume allotted for irrigation is also improving the financial condition of these districts, as will be seen from the following statement, which gives the actual revenue from sales of water for 1909-10, the last year before the water law was amended, and the estimated revenue from the compulsory irrigation charge in 1911-12 from five districts:—

	District.		Estimated Irrigation Charges, 1911-12.	Estimated Increase in Revenue from Irrigation Water.	
			£	£	£
Bacchus Marsh		 	39	2,160	2,121
Cohuna	• •	 	2,260	5,500	3,240
$\mathbf{K}_{\mathbf{oondrook}}$		 	351	3,300	2,949
Rodney	• •	 	2,875	11,305	8,430
Swau Hill		 1	1,082	2 ,762	1,680

INFLUENCE OF IMMIGRATION ON DEVELOPMENT.

This development would not have been possible had there not been a marked increase in population and labour in the irrigation districts. There was not enough labour to cultivate the land properly before the water supply was increased, and the increased water supply only aggravated the scarcity of labour and made the need for smaller holdings and more people imperative. It was this situation which led to the State sending a delegation abroad to secure settlers and farm labourers for the irrigation areas.

There were not enough Victorian settlers to use the surplus water, and in 3½ years prior to July, 1910, only 1,554 immigrants of all classes had come from over-sea. The mission of the delegation abroad was to find settlers and workers for the irrigation areas. It restricted its efforts to this task and as in the single year from July, 1910, to June, 1911, 6,008 people arrived and were dealt with by the office handling this class of immigrants, it created new and better conditions, and awoke new confidence and energy. In addition to those reported by the Immigration Department, a considerable number of settlers from abroad has been attracted to the irrigation districts by the wide publicity given to its opportunities, and has gone there without being included in the above total. The arrival of these settlers has stimulated local interest and increased settlement by Victorians, and as a result, irrigation has made greater progress in the last twelve months than for many years previously; vacant blocks at White Cliffs, Nyah, Cohuna, and Shepparton have been taken, and practically the whole of the new closer settlements at Koyuga, Nanneella, and Bamawn is occupied.

Since the present movement for irrigated closer settlement began, 69,658 acres of land have been acquired by the State, and 40,209 acres have been taken by 757 settlers. Over 29,000 acres is being subdivided and made ready for settlers, and negotiations for the purchase of a large additional acreage are pending. The following table gives the details of this settlement:—

TABLE SHOWING THE NUMBER OF ACRES ACQUIRED, THE NUMBER OF ACRES SETTLED, AND THE NUMBER OF BLOCKS ALREADY TAKEN BY SETTLERS.

	District.			Area acquired.	Area settled.	Number of Blocks taken
				Acres.	Acres.	
Nanneella		• •		6,321	4,245	87
Bamawm		••		12,311	8,680	138
Koyuga				4,750	4,350	45
Tongala			••	14,050	330	13
Cohuna				11,782	8,220	100
Swan Hill			• •	5,108	3,300	48
Shepparton			• •	6,599	2,7 70	96
Nyah	• •		••	2,923	2,719	67
White Cliffs	••	••	• •	5,814	5,595	163
				69,658	40,209	757

MORE SETTLERS NEEDED.

The number of new settlers from oversea who have taken blocks will be increased in the near future, because a considerable percentage has accepted temporary employment in the irrigation districts in order to gain experience before taking up land. The percentage of farmers to farm labourers among the immigrants is, however, decreasing. The reason for this is not obscure. Farmers with capital and established homes are harder to move than labourers with little or no capital, because there is much more to be done before they leave home, and much more to lose if conditions are not as represented. To secure farmers with capital and capacity requires, therefore, harder and more persistent efforts and greater expenditure than would be required to secure farm labourers. Immigration agents are thus inclined to restrict their efforts to the latter class. Even when interested, prudent and capable farmers prefer to see the land and select their new home before disposing of or leaving the old one.

LAND SEEKERS' EXCURSIONS.

It has been recognised from the outset that provision should be made to enable intending settlers to visit Victoria and inspect the opportunities offered in comfort and at moderate cost as a preliminary to immigration and settlement, and one of the original features of the State's immigration policy was land seekers' excursions. While in Great Britain the delegation had repeated inquiries as to when these excursions would be inaugurated, and it was evident that many who thought well of the State's opportunities, and who were qualified to succeed, would not emigrate without first seeing the country. While in Canada and the United States, the delegation found that low rate return fare land seekers' excursions are the basis of all land settlement movements in those countries. It is very rare that the American farmer moves his family and capital to a new country until he has seen, approved, and selected the land for his new home. Much of Canada's success in attracting farmers and capital from the United States has been due to its effective system of land seekers' excursions, and to the attention given to the comfort of those who join them.

EXPERT IRRIGATORS REQUIRED.

As yet this feature of the Victorian immigration policy has not been carried into effect, and one fundamental idea of that policy, which was to secure farmers who were experts in irrigated agriculture, is in danger of being lost sight of. It is of the utmost importance that this matter should have early attention. The State is attempting in irrigation districts to make a small area support a large population, and to create the kind of agriculture which will give as comfortable a living from 50 irrigated acres as can be had from 300 acres dependent on rainfall. In other words, it is attempting to establish on a large scale the highest form of agriculture known. The soil, climate, and water supply make these results possible. It is a region of great and varied possibilities, but these can only be realized through having in these districts a considerable percentage of farmers who are able to do the required work in the best manner, and who will be content with nothing less. Such men will be an example and incentive to beginners without experience. These districts need orchardists who know how to grow citrus fruits; they need vineyardists who have had experience in growing and shipping table grapes; they need farmers who understand dairying, lucerne-growing, and lamb fattening; and above all, they need a considerable percentage of settlers who believe in irrigation and are skilled in its practice.

In saying this, no reflection is implied on settlers now on the land; they are, as a rule, earnest and industrious men, many of whom are now doing well, and the great majority of whom ought to succeed; but, as a rule, they lack experience, and have limited capital. As a result, irrigated agriculture is not having a fair chance to demonstrate its advantages.

Additional Expenditure to Secure Settlers of the Right Class Recommended.

There is also a danger that the pressure of applicants may lead to the acceptance of settlers who cannot possibly meet the conditions of payment for land and water fixed by the State. Many intending settlers from abroad, as well as some from Victoria, regard the settlement in the irrigation areas as a movement to give men who lack the money or experience needed to begin farming elsewhere an opportunity to make a start under irrigation. Where men realize that lack of capital and lack of experience must be overcome by additional effort and persistence on their part, no harm will result from this, but this is not always understood; in any event, the chances of success of every settler so handicapped will be greatly improved by having in each district a considerable

number of farmers who have both capital and experience.

The magnitude of the State's interest in this development warrants a considerable effort to secure settlers of the right class. It is the surest way to hasten the complete use of the existing works and insure satisfactory results therefrom; and it will be the best possible basis for future extensions. In considering this question it must be remembered that the State is only at the beginning of its irrigation development. Last season irrigators in Victoria only diverted 4 per cent. of the total flow of the Murray, and only used 2 per cent. of the total flow of the Goulburn. The extension of irrigated agriculture to the extent which this unused water supply makes possible means so much to Victoria that no precaution should be neglected which will insure its complete success. Nothing will be more effective in promoting this than the presence in each district of several farmers who do their work in the best manner and thus incite and encourage others to follow their example. The surest way to reach this class is to offer them an opportunity to see for themselves the conditions here presented for the profitable use of their special knowledge and experience.

It is confidently believed that, if the opportunity for such inspection is given, the desired class of farmers will avail themselves of it, and there is no doubt that their verdict will be favorable. During the past five years, experts in intensive agriculture from noted irrigation districts have visited the Victorian irrigation areas, and all have united in admiration for their resources and surprise at the neglect to use the great

opportunities they present.

The Commission, therefore, urges—

- I. Arrangements for a reduced second class return fare from Europe to Victoria for approved land seekers.
- 2. Provision for a land seekers' excursion from America.

It is understood that the latter has been delayed on account of an effort to secure the co-operation of other Australian States, but the requirements of our irrigation development are such that longer delay in this matter is believed to be unwise, and may be injurious.

Co-operation of Closer Settlement Board and Intelligence Branch OF LANDS DEPARTMENT.

The successful development of the irrigation districts will not depend entirely on the efforts of the Commission; it requires the active assistance of the Closer Settlement Board and the Intelligence Branch of the Lands Department. The progress in settlement made during the year is largely due to their active and cordial co-operation.

EXPERIMENTAL AND DEMONSTRATION FARMS IN THE IRRIGATION DISTRICTS.

The changes in agriculture taking place in the irrigation areas, and the large number of new settlers to whom its conditions and methods are strange and new, render it desirable that provision be made for their instruction. Much good work in this direction has been done by the Department of Agriculture, and the establishment of the experimental farm in the Bamawm District will also help to settle some important questions. The Commission believes, however, that similar farms should be established in other irrigation districts.

TATURA FARM.

This farm was acquired to show how land should be prepared for irrigation, and to make experiments in the growing and harvesting of lucerne. The first of these objects has been achieved. The grading demonstrations made at the farm have shown what tools were required and how they should be used, and have led to the local manufacture of grading implements in large numbers. Farmers in the irrigation areas now generally realize that there is no difficulty in irrigating lucerne if the land has been properly graded.

The experiments in growing and harvesting lucerne were undertaken because the growth of this fodder plant will improve the heavy soils, and do more than any other

fodder crop to provide emergency food supplies for stock in dry years.

That it only requires proper grading and fertilizers to grow profitable crops of lucerne has been shown at Tatura. The land which was not manured did not produce more than 500 lbs. of dry hay at each cutting; the land which has been properly manured now produces 1 ton of hay to a cutting.

The study of these problems requires more time than the Commission can give, and is, moreover, within the special sphere of the Department of Agriculture. It has been decided, therefore, to dispose of the farm at Tatura, and bring to a close the experimental and demonstration work carried out there for the past three years.

Additional Storage Works.

If the settlement of irrigated lands continues at the present rate, there will be need before many years for works on both the Murray and Goulburn to provide an additional water supply for the latter half of the irrigation season. These works will involve a large outlay, and early consideration should be given to their location and

the preparation of plans and estimates.

The works which should be first dealt with are a weir at Torrumbarry, and a reservoir on the Goulburn. The investigations now being carried on at Torrumbarry have been mentioned in another portion of the Report. The carrying out of this work will cheapen the cost of water in the Cohuna, Gannawarra, and Koondrook districts by substituting gravitation for pumped water, and it will give greater security to irrigators depending on the reservoirs at Kow Swamp, North West Lakes, Long Lake, and Lake Boga. In regard to the need for additional storage on the Goulburn it should be pointed out that at present only one-fourth of the irrigable land in the Rodney District has a full water supply, and no provision has been made for a considerable area of land in the Deakin District. The indications are that such water supply will be required in the near future, and a request for the extension of irrigation to 9,000 acres of land under the East Goulburn Channel had to be deferred this season pending decision regarding the construction of additional storage on the Goulburn. Investigations to determine the best site have been carried on for three years, and a conclusion has been reached that the best location is at the site of the weir. By raising this weir to a greater height, additional storage, varying from 50,000 to 550,000 acre feet could be provided.

THE MURRAY RIVER INQUIRY.

In January last, an Inter-State Conference was held at Melbourne, attended by the Premiers and other representatives of the Governments of New South Wales, South Australia, and Victoria, to consider questions connected with the conservation and increased use of the Murray River.

Two resolutions were adopted at this Conference. One authorized the use of Lake Vietoria as a reservoir by South Australia; the other provided for an engineering inquiry to collect data which would aid in preparing an Inter-State agreement to govern

the use of the Murray.

Mr. John Stewart Dethridge, then Chief Engineer, but now a Member of the Commission, was appointed Engineer for Victoria to assist in this inquiry.

PLANS AND DIAGRAMS.

Attached to this Report are the following plans and diagrams:—

(1) Plans (2) showing development of Goulburn Irrigation Scheme. (2) Plan showing development of Murray River Irrigation Schemes.

- (3) Plan showing Closer Settlement Areas at Bamawm, Cohuna, Koyuga, Nanneella, Shepparton, and Swan Hill.
- (4) Plan showing areas settled and available at Tongala, and additional areas available at Bamawm and Swan Hill.

(5) Diagram of Goulburn River flows.

(6) Diagram showing proportion used of the flows of the Goulburn and Murray during the year 1910.

ADMINISTRATION.

ENGINEER IN CHARGE OF NORTHERN MALLEE WATER SUPPLY.

Mr. A. S. Kenyon, who was previously in the service of the Department of Agriculture in charge of operations for the supply of water in the Northern Mallee, has been appointed an Officer of the Commission. Mr. Kenyon will remain in charge of the operations for supply of water in the area named, which has now been placed under the control of the Commission.

AMALGAMATION OF DISTRICTS.

The districts of Gunbower West, South Kerang, Marquis Hill, Kerang East, Macorna North, and portion of Wandella have been united into one district under the name of Kerang Irrigation and Water Supply District. It is proposed next year to unite the two irrigation and water supply districts of Benjeroop and Murrabit and Koondrook and Myall so as to form the one district of Koondrook. In like manner, it is intended to amalgamate the districts of East Boort, Leaghur, and Meering, North Boort, Twelve Mile, and Wandella so as to form one district to be known as Boort Irrigation and Water Supply District.

COHUNA CENTRE.

In view of the great development that is taking place in the Cohuna Irrigation and Water Supply District, and of the intention of the Commission to introduce into the district the "compulsory irrigation charge" system, it is thought desirable to place the Cohuna District under the direct management of an Engineer stationed at Cohuna Township. Mr. G. C. Kreutzer will accordingly be appointed to take charge of this area, which will be subdivided into two districts, viz., Cohuna, comprising practically the old No. 1 Riding, and Gannawarra, comprising practically the old No. 2 and No. 3 Ridings of the old District.

NEW APPOINTMENTS.

Mr. C. P. Farie Wright has been appointed Resident Engineer in charge of the Kerang Centre, in place of Mr. C. R. Anderson; Mr. G. C. Kreutzer will, as previously mentioned, be appointed Resident Engineer and Secretary in charge of Cohuna Centre; and arrangements have been made to place Mr. E. J. Kenny in charge as Resident Secretary of White Cliffs District. In the new Karkarooc Waterworks District, Mr. R. Long has been appointed Secretary, with an office at Warracknabeal.

OFFICES IN COUNTRY CENTRES.

Offices for the conduct of the Commission's business have been crected at Swan Hill. It is proposed to also crect offices at Cohuna and Rochester. The crection of the offices will not entail the State in any additional annual outlay, as rent formerly paid will be saved.

NEW DISTRICTS CONSTITUTED.

Since last Report, the Irrigation and Water Supply District of Shepparton has been constituted, as have also the Irrigation Areas of Nyah and White Cliffs. The Waterworks Districts of Karkarooc and Tyntynder, and the Urban District of Wonthaggi, have similarly been formed. In the Coliban Area, the small Waterworks District of Axe Creek, comprising lands benefited by the race of that name, has been constituted, and it is proposed to constitute Waterworks Districts in respect of other lands in this area benefited by various races. In the ensuing year, areas at Bamawm, Koyuga, and Nanneella, which are being closely settled, will be constituted Irrigation and Water Supply Districts.

RECEIPTS, DISBURSEMENTS, AND ESTIMATES.

The total revenue of the Commission for the year was £136,750, an increase of £20,299 on the amount for 1909-10. The greater portion of this increase came from those Irrigation and Water Supply Districts in which the compulsory irrigation charge was levied.

The Coliban System showed a decrease of £1,682 in receipts as against last year. This was, however, almost counterbalanced by a decrease in the year's expenditure of £1,216. The net return to the State on capital cost is 2.25 per cent., as against 1.9 per cent. in the year 1905-6.

Although the revenue from the Irrigation and Water Supply Districts is £14,531 more than the amount for last year, the aggregate revenue deficit of the districts—i.e., the excess of disbursements, interest, and depreciation over receipts—is now £38,919, as against £28,973 in 1909-10. This is caused largely by the increase in interest on Capital in respect of new works from which no return can be received for a few years. In this result also is included a new charge of £6,616 against some of the districts served by the Goulburn Main Channel Scheme for the maintenance of and interest on such works. Although the figancial position of these districts is still far from satisfactory, it is gratifying to note that, while the deficit on last year's operations was, including this item for Goulburn Works, £23,065, this year it is only £9,946. The Commission believes that, with the introduction of the compulsory irrigation charge in districts having an ample water supply, not only will this drift be stopped, but that eventually the accumulated deficits will be paid off.

In the various Waterworks Districts (exclusive of the Coliban System) under the control of the Commission the revenue has in the aggregate overtaken the expenditure, and the revenue deficit, which in 1908-9 was £19,274, is now reduced to £2,252.

The expenditure for the year from annual votes was £75,014, an increase of £2,674 over that of the previous year. This expenditure is not only, like last year, exclusive of capital amounts, but is also this year exclusive of a sum of £4,777, representing three-fourths of the expenditure in the Nyah and White Cliffs Irrigation Areas, where, under the provisions of the Murray Settlements Act 1907, only one-fourth of the expenditure was charged. It is intended to uniformly increase the proportion of expenditure charged to these areas so that in three years the full amount will be charged.

In the Swan Hill Irrigation and Water Supply District a sum of £561 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.

Arrangements have been made to commence payments to Redemption and Depreciation Funds in a number of districts. The Commission was not, under the Principal Act, authorized to establish these funds, but, as both were necessary to place the districts on a sound financial basis, it secured the inclusion of the enabling provisions in the Amending Water Act, which became law in 1910.

The Estimates for 1911–12 show an increase of £20,000 in Receipts over the previous year's estimate, while the estimated Disbursements show an increase of only £2,900. The estimated sum available to apply towards meeting the interest to be paid by the State on its Loan Expenditure for works of water supply is £45,300, to which should be added £51,200, estimated to be received by the State from other authorities, making a total of £96,500. The total interest charges on loans for the year amount to £243,621; of this amount £92,857 is debitable against Free Headworks, Amounts Written Off, and Unexpended Balances, while £150,764 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 £7,242,082. Of this total, £1,225,436 is for Free Headworks; £1,268,972 has been written off; £147,046 was advanced as free grants to some early-formed local authorities; £44,606 has not been expended; and £186,760 has been paid off by authorities. The balance, £4,369,262, is the sum on which interest should be paid by the occupiers or owners of the properties benefited by the various works.

RECEIPTS AND DISBURSEMENTS.

STATEMENT of Moneys received and disbursed during the year ended 30th June, 1911.

		:	EXPENDITURE	ı .	EXC	CESS.
₩orbs.	REVENUE.	From Annual Votes,	Deduct Capital and Other Expenditure not Chargeable to Districts.	Net Expenditure on Maintenance and Management.	Revenue over Net Expenditure.	Expenditure over Revenne.
	£	£	£	£	£	£
Coliban	37,477	12,666	2,207	10,459	27,018	
Other State Works—	,					,
Goulburn	62	2,469		2,469		2,407
Loddon River	6	357	.	357		351
Kow Swamp	150	2,336		2,336		2,186
Broken River	7	174		174		167
North-West Lakes	183	334		334		151
Lake Lonsdale	147	328		328		181
Lower Wimmera		202	۱	202		202
Irrigation Districts	47,294	32,143	4,777	27,366	19.928	
Waterworks Districts —					į	
Rural	43,391	18,491	122	18,369	25,022	
Urban	5,150	2,260		2,260	2,890	
Licences, Diversions, Pumping,	·			ļ		
and Miscellaneous	2,883	1,168	••	1,168	1,715	
Not Revenue Producing-	136,750	72,928	7,106	65,822	76,573	5,645
					:	
River Gaugings, Surveys and Reports, New Projects Waterworks Trusts—		4,263		4,263	• •	4,263
Administration	,	1,547		1,547		1,547
Land Settlement— Services by Commission	• •	925	:	925	••	925
Loan Works— Services on account of,	1					
defrayed from Votes		$2,\!457$	··· :	2,457		2,457
Totals	136,750	82,120	7,106	75,014	76,573	14,837

COLIBAN SYSTEM.

During the year the Axe Creek Waterworks District, which comprises about 4,550 acres commanded by the Axe Creek Race within the Coliban Area, was constituted a separate District.

STATEMENT of Moneys received and disbursed during the year ended 30th June, 1911.

· ·		Disbursement	s from Consolidated Revenue.	1	Receipts over Net
District.	CAPITAL DEBIT at 30th June, 1911.	INTEREST on Capital at 4 per cent.	Net MAINTENANCE and MANAGEMENT.	ACTUAL RECEIPTS for year 1910-11. (Receipts for 1909-10 shown in brackets.)	Trumom 124
	£	£	£	£	£
Coliban	1.200,714	48,029	10,341	37,331	26,990 =
	:			(39,013)	2.25 per cent. (27,456 = 2.29 per cent.)
Axe Creek	1,750	70	Maintenance 27 Water Supply 66 Management and Valuations 25 118 Add Interest 70 188	Rates 97 Water Sales 49	Expendi- ture over Receipts 42

IRRIGATION AND WATER SUPPLY DISTRICTS.

STATEMENT of Moneys received and disbursed from 1st May, 1906, to 30th June, 1911; and of Interest, charged at the rate of 4 per cent. on Capital Debits; and also of Depreciation charged, as at 30th June, 1911. (Free Head-works excluded.)

RECEIPTS.

/-			··· · · · · · · · · · · · · · · · · ·		1st May,	ist Ju	ly, 1910, to	30th June	1911.		Grand
	Distri	ot.			1906, to 30th June, 1910.	Rates.	Compulsory Irrigation Charge.	Water Sales.	Interest, Miscel- lancous.	Total.	Total at 30th June, 1911.
					£	£	£	£	£	£	
1.	Bacchus Marsh				3,698	654		263	'	917	4,615
2.	$\mathbf{Campaspe}$				3,343	771		11	1	783	4,126
	Dakin				9,435	3,464		754	19	4,237	13,672
4.	Rodney				38,525	5,252	10,622	1,604	101	17,579	56,104
5.	Shepparton			٠.		27	251		51	329	329
6.	Swau Hill			٠.	8,412	468	1,977	432	29	2,906	11,318
	Kerang Centre—										
7.	Cohuna				30,411	4,040		3,237	186	7,463	37,874
8.	Dry Lake			٠.	114				29	• 29	173
9.				٠.	16,452	1,845		1,563	34	3,442	19,894
10.	Koondrook, inch	ıding	Benjeroop	and	5,450	839		664	21	1,524	6,974
	${f Murrabit}$										
	Loddon Centre—										
11.					2,702	475		215	4	694	3,396
12.		ring			1,021	143		136		279	1,303
13.		••			1,157	181		73		254	1,411
14.	Tragowel Plains		• •		15,329	2,500		1,295	12	3,807	19,136
15.	Twelve Mile	• •			882	143	٠.	110	2	255	1,137
16.					1,951	157		177	1	335	2,286
	Irrigation Areas—										
17.					97	61	625	34	3	723	820
18.	=		• •			128	1,465	38	107	1,738	1,738
	Miscellaneous	• •	• •	• •	4	• •		٠٠.	•••	• • •	4
					139,016	21.148	14,940	10,606	600	47,294	186,310

DISBURSEMENTS AND INTEREST AND DEPRECIATION CHARGED. (Inclusive of portion of Charges on Account of the Goulburn Main Channel Works.)

District.		1906, Juno, 1910.]	During 19	10-11.		;					1, 1911
District.	į	E	ı			Ì	_ 1	i				5
	!	1st May, 1906,	Repairs and Maiutenance.	Distribution of Water.	Management.	Total,	Total at 36th Jnne, 1911,	1st May, 1908, to 30th June, 1910.	1st July, 1910, to 30th June, 1911.	Total at 30th June, 1911.	DEPRECIATION CHARGED.	Grand Total at 30th June,
		£	£	£	Ē	£	£	£	£	£	£	
1. Bacchus Marsh		2,354	153	189	29	371	2,725	1,212	603	1,815	56	4,596
2. Campaspe:		$2{,}445$	132	140-	94	366	2,811	2,310	621	2,931	•• 1	5,742
3. D akin		4,170	1,025	892'	358	2,275	6,454	$-5,\!546$	$-3,756^{'}$	9,302		15,756
4. Rodnoy		22,653	2,809	3,037	906	6,752	29,405	19,322	11,660	30,982		60,387
5. Shapparton		1 İ	294.	86	60	4.10	440		969	969		1,409
6. Swan Hill:		9,969	289	1,622	239	$2,\!150$	12,119	2,278	496	2,774	768	15,661
Kerang Centre—									İ	-		
7. Cohuna		24,267	3,214	3,531	833	7,578	31,845	13,827	3,962	17,789	2,400	52,034
8. Dry Lake		1		••	٠	••	1	145		174		175
9. Kerang	٠.	8,483	728	608	145	1,481	9,964	7,414	1,492	8,906		18,870
Koondrook (inch	1 d -		!			1				·	. !	,
ing Benjero	ор	,			<u> </u>						,	
and Murrabit)		5,006	139	772	109	1,020	6,026	2,667	1,369	4,036	751	10,313
Loddon Centre—		' .							,		l i	,
11. East Boort		1,773	101	100	28	229	2,002	1,255	261	1,516	·	3,518
12. Leaghur and Me	er-											
ing		586	18	57	11	86	672	485	97	532		1.254
13. North Boort	٠.	1.270	207	87	40	$334^{ }$	1,604	399	82	481	' Ì	2,085
14. Tragowel Plains		11,019	1,369	772	282	2,423	13,442	6,670	1,395	8,065		21,507
15. Twelve Mile		515	31	57	12	100	615			390		1.005
16. Wandella		896	93	56	20	169	1,065			1,013		2,033
Irrigation Areas—		1	I			į	,					-,0 /0
17. *Nvah		1,036	4i	335	46	475	1,531	955	173	1,123	472	3,161
18. White Cliffs	٠.	1,2₹6	16	900	111	1,117	2,103				i .	
		97,788	$\frac{-}{10,662}$	13,381	3,323	27,366	$\frac{1}{125,154}$	67,139	27,614	94,753	5.322	225,229

* A sum of 231 interest transferred to Tyntynder Waterworks District for year 1909-10.

[For summary see next pages]

IRRIGATION AND WATER SUPPLY DISTRICTS—continued. SUMMARY OF RECEIPTS AND DISBURSEMENTS AND INTEREST AND DEPRECIATION CHARGES.

1st May, 1906, to 30th June, 1911.

Receipts to 30th June, 1910			£139,016	Disbursements, Inter	est, Depre	iation, to	o 30th	,
Receipts, year 1910-11			47,294	June, 1910	••			£167,989
		-		Add for year 1910-11				57,240
Total Receipts to 30th June, 1911		•••	£186,310					
Revenue Deficit to 30th June, 1910		28,973						
Doficit, year 1910-11	_	9,946						
•	-			•				
Revenue Deficit to 30th June, 1911	••	•••	£38,919					
		-					-	
Total			£225.229	Total				£225.229

WATERWORKS DISTRICTS.

STATEMENT of Moneys received and disbursed from 1st July, 1906, to 30th June, 1911; and of Interest charged, at the rate of 4 per cent. on Capital Debits; and also of Depreciation charged, as at 30th June, 1911. (Free Head-works excluded.)

Receipts.

				1st May, 1906,	19t	July, 1910, to	o 30th Jnne, 1911		Grand
Dis	trict.			\$0th June, 1910.	Eate.	Water Sales.	Interest and Miscel- laneous.	Total.	Total at 30th June, 1811.
R	ural.			£	£	£	£	£	£
I. Birchip				١٦	2,075	10	5	2,090] }
2. Sea Lake	• •	••		14, 980	4,612	25	37	4,674	24,477
Wycheproof				IJ	\ 2,707	15	11 [2,733	I) i
4. Karkarooc	••	••		٠	4,394		24	4,418	4,418
Long Lake			••	12,405	4,206	3 5	56	4,297	16,702
6. Tyntynder		••			957	••	6	963	963
7. Western Wimmer			• • •	18,843	9,429	584	131	10,144	28,987
8. Wimmera United		••	-	20,144	13,894	16	162	14,072	34,216
U_{7}	ban.						1		
9. Birchip				576	612	16	7	635	1,211
10. Dimboola				2,803	518	829	35	1,382	4,185
11. Lake Boga				147	145		$\begin{array}{c c} 2 \end{array}$	147	294
12. Miuyip				519	478	2	4	484	1,003
13. Natimuk		••		912	220	210	4	434	1,346
14. Rainbow	• •			100	658	• •	9	667	767
15. Rupanyup	• •			446	316	11	5	332	778
16. Sca Lake	• •	• •		366	315		3	318	684
Wycheproof	• •	• •		646	290	50	2	342	988
18. Wouthaggi	• •	• •	• •		29	380		409	409
				72,887	45,855	2,183	503	48,541	121,428

DISBURSEMENTS AND INTEREST AND DEPRECIATION CHARGED.

		:	disburs	EMENTS.			INTER	EST CHAI	RGED.		
	· · · ·		During 1	1910 11			·		Ī		<u> </u>
District.	1st May, 1906, to 30th June, 1910.	Repairs and Maintenance,	Distribution of Water.	Management.	Total,	Total at 30th June, 1911.	1st May, 1606, to 30th June, 1910.	1st July, 1910, to 80th June, 1911.	Total at 30th June, 1911.	DEPERCIATION CHARGED.	Grand Total at 30th June, 1911.
Rural,	£	£	£	£	£	£	£	£	£	£	£
1. Birchip 2. Sea Lake 3. Wycheproof	15,898	3,533	638	585	4,756	20,654	12,591	4,765	17,356		38,010
4. Karkarooc	$\begin{bmatrix} 136 \\ 9,057 \end{bmatrix}$	908 818	32 929	$\frac{208}{291}$	$\begin{bmatrix} 1,148 \\ 2,038 \end{bmatrix}$	$1,\!284 \\ 11,\!095$	$\frac{343}{2,829}$	$\frac{2,227}{1,214}$	2,570		3,854
5. Long Lake 6. Tyntynder	8,001	255		96	351	351	2,629	443	4,043 474	1,532	16,670 825
7. Western Wimmera	8,368	1,956	1,679	556	4,191	12,559	7,642	3,283	10,925	::	23,484
8. Wimmera United	11,068	3,518	1,447	920	5,885	16,953	8,346	4,047	12,393		29,346
Urban.			J						}		
9. Birchip	213	20	199	48	267	480	4 56	282	738	45	1,263
IO. Dimboola	I,540	336	422	128	886	2,426	360	243	603	220	3,249
11. Lake Boga	18	٠٠]	$\frac{9}{132}$	6 38	15 170	33	195	105	300	12	345
12. Minyip	270 20		132	38 11	71	440 91	383 330	194	577	38	1,055
13. Natimuk	10	136	35	18	189	199	303	146 386	476		567
14. Rainbow 15. Rupanyup	265	5	81	12	98	363	280	386 156	689 436	80 42	968
16. S en Lake	371	10	143	34	187	558	150	65	215	84	841 857
17. Wycheproof	527	*	286	53	339	866	216	186	402	62	1,330
18. Wonthaggi			20	18	38	38		978	978		1,016
	47,761	11,555	6,052	3,022	20,629	68,390	34,455	18,720	53, 175	2,115	123,680

DISTRICTS HELD IN TRUST BY THE COMMISSION.

AVOCA WATER TRUST.—BALANCE-SHEET.

STATEMENT OF RECEIPTS AND DISBURSEMENTS FOR THE YEAR ENDED 31ST DECEMBER, 1910.

Revenue Account.

$\mathbf{R}\mathbf{E}$	CEIPTS.				Disburses	MENTS.				
		£	8.	d.				£	s.	d.
Balance from 1909		 198	3	6	Interest on Loan			339	16	6
Arrears of Rates		 454	8	8	Redemption of Loan			58	1	9
Current Rate		 504	11	6	Maintenance and Repairs			136	4	5
Interest on Arrears an	d Exchange	 7	7	0	Management	£28	18 6			
Sales of Water		 33	5	0		49	1 0			
Overpaid Rates	•	 0	1	9	-			77	19	6
Overpayment to Bank		 ()	2	0	Overpaid Rates			5	14	6
					Bank Charges			3	19	3
					Bank Balances, 31/12/1910	0		576	3	6
	Total	 1,197	19	5		Total	•••	1,197	19	5

Statement of Assets and Liabilities.

Liabilit	TES.	0		,	Assets.	,
Treasurer of Victoria—Lo Rates Overpaid Bank Overpayments General Account Balance	an 	 £ 5,603 0 0 1,444	$\frac{14}{2}$	9		d.
						6 8 9
						6
	Total	 7,048	11	5	Total 7,048 11	5

Statement of Rates.

Current Rate Arrears from 1909		 675	13	10	Current Rate Collected Arrears of Rates Collected Rates Written Off Arrears Carried Forward to		 £ 504 454 3 376	11 8 2	6 8 0
	Total	 1,338	3	10		Total	 1,338	3	10

DISTRICTS HELD IN TRUST BY THE COMMISSION—continued.

CARRUM WATERWORKS TRUST.—BALANCE-SHEET.

STATEMENT OF RECRIPTS AND DISBURSEMENTS FOR THE YEAR ENDED 31ST DECEMBER, 1910.

Kevenue	Account.

				F	Account.						
	RECE	HPTs.					DISBURSEMENTS.				
•	101101	411 119.		£	3.	d.	_	d.	£	J.	d.
Balance from 1909				$\frac{2}{645}$			F T		$1,\overline{5}36$	3	3
	••	• •	• •						1,980		7
Arrears of Rates	• •		• •	1,569	7	П		•			
Current Rate	• •	• •	٠.	1,000	8	6	· · · · · · · · · · · · · · · · · · ·	•	33 0	19	4
Interest on Arrears				17	5		24	0			
M iscellaneous				3	12	()	Stationery, Printing, &c. 22 15	0			
Overpaid Rate				()	11	6			62	15	0
Overpayment to Ba				()	()	6	Bunk Charges		2	13	10
1							Bank Balance, 31/12/1910		342		5
							Traine Balance, 01/12/101/	•			
(13.4)			-	02.120	15	- -	Matal		£3,236	15	F.
Total	••	••	••-	£3,236	10	-5 	Total	•	±0,200	10	5
				Spe	cial	W	orks Account.				
	-			_							
	$\mathbf{R}_{\mathbf{ECE}}$	IPTS.		_		,	Disbursements.				,
				£	8.	d.			£	8.	d.
Balance from 1909			٠.	581	٠Ł	7			0	13	6
Special Rate Receip	pts		٠.	162	1.4	2	Bank Balance, 31/12/1910		774	- 8	9
Special Rate Intere				31	3						
Special reaco intere	,a u		• •	01	0	0			_		
Total				£775		3	Total		£775	2	3
	••	. •	٠		_			-			_
			a.		,	,	, y T' 195,1				
			Si	ale ment	of	Ass	ets and Liabilities.				
	Liabii	ITIES.					Assets.				
		£ s.	đ.	£		đ.		d.	£		d.
Treasurer of Victori	. Tas						117 1 1 0 1 0 mm m m m m	6	~	٥,	u.
			• •	10,505	U	11					
	•;	0.11	6				Less Amount written off 7,732 0	0	10.004	_	
Overpayment to B	ank	0 0	6						18,000		6
				0	12	()	Arrears of Rates		2,119	12	8
General Account B	alance			3,473	8	8	Bank Balance, 31/12/1910		342		5
			-	_				-			
${f Total}$		• •		£20,463	1	7	Total	:	£ $20,463$	1	7
			-					-			
Special Works—							Special Works—				
Balance of Work	s to be	carried	out	L520	10	3		6			
Data in our	20 00	our re d	0	,	• • •	O	Less Amount Received 7,939 13	ú			
							Dess Amount tweetyed (1,050 13)	J	905	1	
							T) 1 (3)	_	205	1	9
								• •	540		3
							Bank Balance, 31/12/1910		774	8	9
			-					_			
Total				£ $1,520$	10	3	Total		£1,520	10	3
			_	<u>_</u>				_	·		
				Ci at		- 4	Pater to 1010				
			٠	Бинет	eni	O _f	Rates for 1910				
				£	3.	d.	1		•	_	y
Current Boto				1.995					£	s .	ď.
Current Rate		••		,	- 8	0		• •	1,000	8	6
Arrears from 1909	• •		• •	2,694	1	l			1,569	7	11
							Arrears carried forward to 1911		2 ,119	12	8
			-				ļ				
Total				£ $4,689$	9	- 1	Total		£4,689	9	1
			_				.,	•			_
							1				-
				Snc	ecia	ı N	Vorks Rate.				
						_	1				
				£	8.	d.			£	8.	d.
							Arrears Collected during 1910 .		162	14	2
Arrears from 1909				367	15	11	A second coming former to 1011		205	ī	9
			-					_			
\mathbf{T} otal				£367	15	11	Total		£367	15	11
			_								

DISTRICTS HELD IN TRUST BY THE COMMISSION—continued.

LODDON UNITED WATERWORKS TRUST.—BALANCE-SHEET.

STATEMENT OF RECHIPTS AND DISBURSEMENTS FOR THE YEAR ENDED 31ST DECEMBER, 1910.

Revenue Account.

RECEIPTS.						DISBURSEMENTS.					
			£	8.	d.		£	8.	d.		
Balance from 1909			97	19	1	Interest on Loan	1,003	19	7		
Arrears of Rates			339	7	1	Redemption of Loan	220	3	5		
Current Rate						Maintenance and Repairs	638	9	3		
Interest on Arrears						Water Bailiff	130	16	0		
Sales of Water			21	12	6	Management, including Salary, Print-					
Rates Overpaid						ing, Stationery, and Advertising	69	3	10		
•						Bank Balance, 31/12/1910	159	17	1		
		-				-					
Total	• •		$\cdot 2,222$	9	2	Total	2,222	9	2		
		-				-					

Statement of Assets and Liabilities.

Liai	BILITIES.			•		,	Assets.		۰		,
Treasurer of Victoria— Loan Less Redemption due	£18,501 67	1 7		£	8.	d.	Works at Cost £117 1 Interest due on Rates £117 1	8	. 19,617 0 2		<i>d</i> . 9
			:	18,433	14	0			- 119	. 8	2
Treasurer of Victoria— Interest Redemption	£132 67	7	7 5 —	200	0	0	Bank Balance, 31/12/1910	•	. 159	17	1
Overpaid Rates Overpaid Interest	£2 0		1	2	18	8					
General Account Balance	е		٠٠_	1,259	17	4					
Total				19,896	10	0	Total		19,896	10	0

Statement of Rates.

Current Rate Arrears from 1909	 . 1,829 8 7 Current Rate Coll . 364 10 0 Arrears of Rates Rates Written Of Arrears Carried E	Collected	• •	1,735 339 1	7 10	6 1 0
Total	 2,193 18 . 7 Total			2,193	18	7

LOAN EXPENDITURE.

STATEMENT OF LOAN EXPENDITURE FOR THE YEAR ENDED 30TH JUNE, 1911.

		ь <u>го</u> е.		1	Loans Appll No. 22		Act,	Loans Applic No. 22		Act,	Tota	1.	
	Free Head	lworks.			£	8.	d.	£	s.	d.	£	s.	d.
1.	Goulburn River	\mathbf{W} orks	(Wara	nga				i			i		
		 	••		30	_	1	1,938		9	1,968		10
2.	Loddon River Wor	ks (Laan	ecoorie		2,797	12	1	19	10	2	2,817	2	3
	Waterworks	Districts.											
3.	Birchip, Sea Lake,		heproof	i	3,724	12	4	6,368	16	1	10,093	8	5
	Karkarooc		.,		1,249		0	4,178		9	5,428	9	9
	Long Lake				1,506	4	9	4,642	5	0	6,148	9	9
	Tyntynder				1,368	9	9	3,347	1	5	4,715		2
	Western Wimmera				329	7	8	719		8	1,049	5	$\bar{4}$
	White Cliffs				111	17	3	339	4	8	451	-	$\hat{11}$
	Wimmera United			. .	1,036	6	11	1,165	6	8	2,201		
	Wimmera Main Ch				3,269	9	2	10,234	9	5	13,503		
	T.												
11	D11.	nu ns .			e	13	4	793	Ω	11	900	o	9
	Disabis	• •	••	• •		19	0	144	2	4	800	2	3
		••	••		13		-	144	1	Ī	207	1	4
	Boga Dimboola	• •	••	• •	441		2	1,065	_	_	27		11
			• •	••			4	1 ' .			1,507	3	0
	Hopetoun	• •	• •	••	10		11	21	2	2	$\frac{21}{2}$	2	2
	Jeparit	• •	• •	••	46			2,069			2,116	0	9
	Minyip	• •	• •	• •	1	4	4		12	4		16	8
	Rainbow	• •	• •	• •	ľ	16	9	242		10	245	2	7
	Rupanyup	• •	• •	• •	113	4	0	277	2	7	390	6	7
	Sea Lake	• •	• •	••	5	1	9	144		3	149		0
	Wonthaggi	• •	••	••	7.05	٠,		48,552	7	$\frac{2}{2}$	48,552	7	2
22.	Wycheproof	• •	• •		105	3	1	1,347	8	0	1,452	11	1
	Irrigation and Water	Supply	Districts	;.				ĺ					
23.	Bacchus Marsh and	l We rri be	e Estate	э	8,016	19	9	13,254	17	4	21,271	17	1
24.	Campaspe				11	16	4	0	10	0	12	6	4
25.	Cohuna				4,551	1	8	9,003	13	1	13,554	14	9
26.	Deakin				8	13	6	0	13	6	9	7	0
	Kerang				207	10	1	764	18	8	972	8	9
2 8.	Koondrook (includ	ling Benj	eroop	and									
	Murrabit)				3,878	1	7	5,517	13	10	9,395	15	5
2 9.	Rodney District]	5,701	9	6	7,573	5	5	13,274		11
	Swan Hill	• •			468			1,958			2,426		
3 1.	Goulburn Main Cha	$\mathbf{n}\mathbf{n}\mathbf{e}\mathbf{l}\mathbf{s}$	••	••	20,717	19	7	52,001			72,719		
	Irrigation	Arens											
3 2.	Nyah				307	2	5	2, 4 72	11	10	2,779	14	3
	White Cliffs				740	$\overline{7}$		5,717			6,458	3	3
				- /				-,,	-	_	3,200	•	•
9.4	Miscella		l- a		0.4	10			_				
	Goulburn Storage S				. 84		0	14			98		
3 0.	Murray River Weir	ourveys,	æc.		· ·			187	14	2	187	14	2
	Totals				60,915	16	4	186,098	2	0	247,013	10	
	T O ACTO		• •		00,010	- 0		100,030	4	v		10	•

ESTIMATES.

Anticipated requirements to meet Disbursements by the Commission and Estimate of the moneys available from its Revenues to provide the same for the year ending 30th June, 1912.

your ending both wane, 1912		ED DISBUE	SEMEN	TS		
Paranua Producing Works		D 10101	OMBIEC.	10.		
Revenue Producing Works-	_	\mathbf{A} .				
Coliban District					£12,000	
Irrigation and W	ator Sun	ade Dista	iuta	•••	37,600	
Waterworks Dist		phy Distr	icis	•••	22,000	
Drainage District		•••	•••	•••	1,050	
General Expendi		I Salaries	····	ortion)	1,000	
over £250						
Districts	•••	Portion		•••	11,100	
	.,,	•••				£83,750
Not Revenue Producing Wor	rks					,
D		В.				
River Gaugings, I	Diversion	s from Stre	ams. S	Surveys.		
New Project						
Salaries (pro					£3,550	
Loan Works, Se				ed from	,	
\mathbf{Votes}	•••		•••	•••	2,750	
Waterworks Tru	st Admir	nistration			1,000	
						£7,300
Free Headworks and Grant						
Tite Heliamorns and Oranic		a				
		C.				
GoulburnV		•••	•••	£1,700		
Kow Swam			•••	2,300		
Loddou Riv		•••	•••	300		
North-West		***	•••	400		
Broken Rive		•••	•••	300		
Lake Lousd		•••	•••	300		
Lower Wim	mera	•••	•••	150	5.450	
Charlton W	atouwouls	a Trust C	want		$5,\!450 \\ 1,\!200$	
Charlton W	atter work	s IIusi O	1 all t	•••		£6,650
						£97,700
	Est	TMATED R	ECEIPT	s.		
Coliban District					£39,500	
Irrigation and Water Supp		cts			56,000	
Waterworks Districts	• • • • • • • • • • • • • • • • • • • •	•••			44,300	
Drainage Districts		•••	• • •	•••	200	
Other Štate Works		•••	• • •	•••	1,400	
Miscellaneons	•••	•••	•••	•••	1,600	
·						£143,000
		•	4.0			
Estimated amount available		evenues o	of Con	mussion		0.000
to meet Interest	•••	•••	•••	•••		£45,300
To which add Estimated Rev		om Other	Autho	rities—		
Waterworks Tru	ısts	•••		• • •	$\pounds 35,\!200$	
Local Bodies	•••	•••	•••	•••	16,000	0
						£51,200
m - 1 - 12 - 12 - 13 - 13 - 14	9 11	C		- C - 11		
Total Estimated amount a			venues	of all		COC 500
Authorities to meet Interd	est	•••	•••	•••		£96,500

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 Authorities, to provide such Interest for the year ending 30th June, 1912:-

Principle Prin			Loan Liability of	State for	orks of Water Bupp Relbourne Water Si	Works of Water Supply at 30th June, 1911, exclusive of Relbourne Water Supply.	1, exclusive		Ĭ.	otal Interest debitab	Total Interest of £243,621 debitable to—	Estimated
Waterworks Districts 1.917,268 15,007 1.000,261 (A.) 169,927 1.730,334 65,572 (A.) 5,863 Integration and Water Supply Districts 1.906,110 10,457 1.194,662 (A.) 575,152 (A.) 5,863 Goulburn Works (exclusive of Districts supplied are being britished with their properties of Interest on 39,838 39,255 (A.) 575,152 (A.) 575,152 (A.) 56,772 (A.) 59,707 Pyke's Greek and Werribee this Expenditure 1,280,100 73,797 1,200,330 (A.) 165,700 419,056 (A.) 165,700 Local Bodice (Atunicipalities) 1,280,100 73,797 1,200,430 (B.) 125,540 419,056 (A.) 165,700 (A.) 1,201 Irrigation Trusts Abolished 1,255,866 420 1,255,436 (B.) 147,046 (B.) 147,046 (B.) 147,046 (B.) 147,046 (B.) 147,046 (B.) 147,046 (C.) 44,606 (C.) 44,606 (C.) 44,606 (C.) 1,540 (C.) 1,540 Loan Moneys unexpended 1,250,772 (C.) 1,540 (C.) 1		Works.	Total Advances, including Cost of Loan Flotation.	Delluct Redemption Paid.	Net Adrances.	(A.) Amounts Written Off. (B.) Free Head- (C.) Joans Unexpended.	Balance at Debt of Authorities.	Interest payable by State on Net Advances.	(A.) W (B.) Fr (C.) Lo Thex	ritten Off. rec Head- rorks. nans rpended.	Commission and Other Authorities.	Available from Revenues of all Authorities to meet Interest, see page 34.
Waterworks Districts 1.917,206 17,007 1.900,261 1.790,334 65,572 (A) 5,563 1.790,334 1.200,110 10,457 1.104,662 (A) 575,152 (A) 575,152 (A) 5,563 (A) 5,563 (A) 575,152 (A) 575,15			વર	ધ	ઋ	અ	અ	ધ		ધ્ર	મ	÷н
Pringation and Water Supply Districts supplied are being body and Water Supply Districts supplied are being body and Water Supplied are being body and Water Headworks) 1,280,180 1,		:		17,007	1.900.261		1.730,334	65,572	(·F)	5.863	59,709	
Goulburn Works (exclusive of Listite's supplied are being bedelied with their proportion of Interest on portion of Interest on portion of Interest on portion of Interest on this Expenditure Taylor	.nois	:		10,457	1.194.662	(A.) 575.152	619,510	41,222	(A.)	19.845	21,377	
Pyke's Creek and Werribee portion of Interest on portion of Interest on portion of Interest on portion of Interest on portion of this Expenditure 1,280,190 73,797 1,206,393 (A _s) 327.409 878.884 41,628 (A _s) 11.299 Local Bodies (Municipalities) 667,885 85,049 682,846 (A _s) 163.769 419.086 29,110 (A _s) 3.679 Local Bodies (Municipalities) 1,225,436 (A _s) 1,225,436 (B _s) 1,225,4	भी क्षां कर	Goulburn Works (exclusive of Districts supplied are being Free Headworks) debited with their pro-	,	:	594.863	:	594,863	20,725		•:	90,525	45.300
Waterworks Trusts (including First Mildura) 1,280,100 73,797 1,206,393 (A ₂) 327,409 878,984 41,628 (A ₂) 11,209 Local Bodies (Municipalities))	_	_,	:	59,928	:	59,938	2,067		:	2.067	
Local Bodies (Municipalities) 667,895 85,040 582,846 (A.) 163.760 419.056 20,110 (A.) 5,650 Irrigation Trusts Abolished 1,225,856 420 1,225,436 (B.) 1,225,436 1,240 1,240	asitites.		1,280,150	73,797	1,206,393	(A _e) 327.409	878.984	41,628	(A.)	11,299	30,329	51,200 Including
32,754 30 32,724 (A.) 32,724 1,301 (A.) 1,301 1,300 1,300,362 186,760 1,055,322 2,686,040 4,369,362 243,621 1501	oqıny	: :		85,049	582,846	(A.) 163,760	419.086	99,110	('\	5,650	14,460	Revenue Advances).
1,225,856 420 1,225,436 (B.)1,225,436 42,286 (B.) 42,286 147,046 147,046 (B.) 147,046 66,547 (B.) 5,073 66,547 66,547 2,297 44,606 44,606 1,540 7,242,082 186,760 7,055,322 2,686,040 4,369,362 243,621 92,857 15		Irrigation Trusts Abolished	32,754	30	32,724		:	1.301	(A.)	1,301	:	
147,046 147,046 (B.) 147,046 5,073 (B.) 5,073 66,547 66,547 2,297 44,606 44,606 1,540 (C.) 1,540 7,242,082 186,760 7,055,322 2,686,040 4,369,362 243,621 92,857 15		:	1,225,856	420	1,225,436	(B.)1.225.436	:	42,286	(B.)	42.286	:	
66,547 66,547 66,547 1,540 1,540 1,540 1,540 1,540 1,540 1,540 1,540 1,540 1,540		:	147,046	:	147,046	(B.) 147.046	:	5,073	(B.)	5.073	:	
1,540 (C.) 14,606 1,540 (C.) 1,540		Surveys, Exploratory, and Preliminary Works, including Purchase of Land reserved for Reservoirs		:	66,547	:	66,547	1.92.2		:	2,297	
7,242,082 186,760 7,055,322 2,686,040 4,369,262 243,621 92,857		Loan Moneys unexpended	44,606	:	909'77		:	1,540	. (. (.)	1,540	:	
			7,242,082	186,760	7,055,322	2,686,040	4,369,262	243,621		92,857	150,764	96,500

Dated at the Office of the State Rivers and Water Supply Commission, Treasury Gardens, Melbourne, the 30th day of October, 1911.

ELWOOD MEAD, Chairman.

WM. CATTANACH, Commissioner.

J. S. DETHRIDGE, Commissioner.

M. NALLY, Secretary.

By Authority: J. KEMP, Government Printer, Melbourne.

DIAGRAM

SHOWING PROPORTION OF THE FLOW OF THE MURRAY RIVER USED IN VICTORIA

YEAR 1910

Volume passing Mildura 6.150,000 acre feet

Volume used in Victoria 259,000 acre feet = 4%

DIAGRAM

SHOWING PROPORTIONS OF THE FLOW OF THE GOULBURN RIVER DIVERTED AND USED YEAR 1910

Total flow at Goulburn Weir 2,151 000 acre feet

- Volume diverted . . . 136,000 acre feet %
- Volume used (approx) 40.000 acre feet = 2%

* The greater part of this volume was diverted to fill Waranga Reservoir, and was subsequently allowed to flow to the Murray, by way of the Campaspe.