

1907.  
—  
VICTORIA.

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STATE RIVERS AND WATER SUPPLY COMMISSION.

---

ANNUAL REPORT, 1906-7.

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PRESENTED TO BOTH HOUSES OF PARLIAMENT PURSUANT TO THE PROVISIONS OF  
SECTION 49 OF THE WATER ACT 1905.

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# STATE RIVERS AND WATER SUPPLY COMMISSION.

## ANNUAL REPORT, 1906-7.

The State Rivers and Water Supply Commission, in pursuance of the provisions of Section 49 of the *Water Act* 1905, submits the following Report and Statement for the Financial Year 1906-7, and Estimates for the year ensuing. It is accompanied by a plan showing in outline the boundaries of districts, sites of works, and other matters referred to :—

### *Preliminary.*

The Commission was appointed on 1st May, 1906; and, in September of the same year, its first Report, dated 21st September, 1906, was, pursuant to the provisions of the section cited, laid before both Houses of Parliament. It could not, from the circumstances of the case, be other than an *ad interim* Report; the Commissioners having been in office for two months only, at the close of the financial year, the period to which it relates. Some, also, of the returns embodied in it were, as stated therein, compiled in part from information furnished by the Water Supply Department.

It will be seen, by reference to Part III. of the Act, that the functions of the Commission are principally administrative and advisory; the general construction of works, on the part of the State, being imposed as a duty on the Board of Land and Works—that is to say, on the Department of Water Supply—whose chief professional officer is an officer of the Board. On completion, it is directed, by Sections 25 and 27 of the Act, that they be transferred to the Commission; the Governor in Council being empowered to make the necessary Order for the transfer. Of the three Commissioners whose signatures are attached hereto, the Chairman is also Chief Engineer of the Water Supply Department; his tenure of the former of these offices being *ad interim* only, pending the installation of a Chairman, who has been engaged from abroad, for the maximum term provided by the Act.

### WORKS, ETC., UNDER CONTROL OF COMMISSION.

By the *Water Act* 1905, the Commission is invested with the control and management of all State works of water supply; as well as with that of the irrigation and water supply districts theretofore administered by irrigation trusts, and with the works for the supply of these districts; and with the control and management of certain waterworks districts and of their works. The following tabular statement gives a brief description, summary of cost, and other details relating to the works, irrigation and water supply districts, and waterworks districts now controlled by the Commission :—

#### I.—STATE WORKS.

##### (a) FREE HEAD WORKS.

Description of Works.	Capital cost at 30th June, 1907, in respect of which no charge for interest is to be made against any district served by these works.
	£
Broken River Works :—Casey's Weir and offtake, with about 59 chains of channel to the Broken Creek; Gowangardie Weir with offtake sluice .. .. .	14,853
Goulburn River Works :—Weir on the Goulburn River, about 9 miles above Murchison; channel therefrom, about 23½ miles, to Waranga; and the Waranga *Reservoir	716,003
Kow Swamp Works :—Intake from the Murray River with regulator, at the effluence of the Gumbower Creek; channel thence to the Kow Swamp Reservoir, and that Reservoir; channel along the northern side of the reservoir; channel from the outlet of the reservoir, about 23½ miles, to the left bank of the Loddon River ..	187,779
Carried forward .. .. .	918,635

\* This work is not yet completed or handed over to the Commission.

(a) FREE HEAD WORKS—*continued.*

Description of Works.	Capital cost at 30th June, 1907, in respect of which no charge for interest is to be made against any district served by these works.
Brought forward .. .. .	£ 918,635
Loddon River Works :—Laanecoorie Weir, on the Loddon ; Bridgewater Weir, on the Loddon ; Kinypanial Weir, on the Loddon .. .. .	156,408
Lake Lonsdale Reservoir :—Reservoir at Lake Lonsdale, on the Little Wimmera River, near Ledcourt .. .. .	50,326
Lower Wimmera Compensation Works :—Drung Drung Weir, on the Wimmera, near allotment 29, parish of Longerenong ; Dimboola Weir, on the Wimmera, near Dimboola township ; Antwerp Weir, on the Wimmera, at Antwerp Station home- stead ; Jeparit Weir, on the Wimmera, near Jeparit township .. .. .	8,752
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 .. .. .	27,898
Kerang North-West Lakes Works :—Weir on the Loddon River at its confluence with the Pyramid Creek ; regulating weirs at the effluence from the Loddon of the Sheepwash and Washpen Creeks ; channel from the Washpen Creek regulator to Reedy Lake, Middle Lake, Third Lake, Lake Charm, Race-course Lake, Cullen's Lake, Kangaroo Lake, and Lake Tutchewop, and to the Little Murray River, with water storage works at these lakes .. .. .	10,008
Total .. .. .	1,172,027

## (b) OTHER STATE WORKS.

Description of Works.	Capital debit at 30th June, 1907.
	£
Geelong Water Supply Works :—Bolwarra Weir, on the Eastern Moorabool River ; aqueduct thence to Stony Creek ; Upper and Lower Stony Creek Reservoirs ; aqueduct from Upper Stony Creek to Anakie, and pipe head basin there ; pipe main from Anakie basin to Lovely Banks, about 17 miles, with pipe connexion thereto from Lower Stony Creek ; service reservoirs at Lovely Banks and at Montpelier ; about 125 miles of reticulation pipes within the town of Geelong and the suburbs thereof .. .. .	456,700
Coliban System of Waterworks :—Upper Coliban and Malmsbury storage reservoirs, on the Coliban River ; main channel from Malmsbury, with branches, about 43 miles in length ; distributary channels from the main channel and branches, about 248 miles in length ; twenty-six minor reservoirs and service basins ; about 280 miles of main and reticulation pipes .. .. .	1,227,550
Glenorchy Works :—Glenorchy Weir, on the Wimmera River, at the effluence of the Dunmunkle Creek ; channel thence, about 1¼ miles, to Swede's Creek— Approximate cost, as stated by Trust .. .. .	10,294
Donald Weir :—Weir on the Richardson River, at the township of Donald— Approximate cost, as stated by Trust .. .. .	1,890
Mallee Distribution Works :—Channels of the Sea Lake system, within the Sea Lake waterworks district, and channels forming part of that system without the district, about 332 miles in length ; tanks, eleven in number, connected with and supplied from the channel system .. .. .	53,458
Carried forward .. .. .	1,749,892

(b) OTHER STATE WORKS—*continued.*

Description of Works.		Capital debt at 30th June, 1907.			
Brought forward .. ..		£ 1,749,892			
Long Lake Works :—Branch distributary channels, about 150 miles in length, for the service of the Long Lake waterworks district, connected to and supplied from the Long Lake free head works .. .. .		10,370			
Irrigation and Water Supply Works :—Distributary works within the districts taken over by the Commission, as follows :—					
Name of District.	Total advances from loans and revenue excluding cost of loan flotation.	Capital written off by Acts, Nos. 1625 and 1651.	Amount paid in redemption to Treasury.	Balance at debit.	
	£	£	£	£	
Cohuna .. ..	151,213	93,968	512	56,733	
Koondrook and Myall .. ..	15,469	12,080	53	3,336	
Benjeroop and Murrabit	12,936	7,200	64	5,672	
Swan Hill .. ..	25,259	19,799	201	5,259	
Gunbower West .. ..	5,889	..	..	5,889	
Kerang East .. ..	14,025	6,984	18	7,024	
Macorna North .. ..	18,557	8,082	81	10,394	
Dry Lake .. ..	1,704	686	299	719	
South Kerang .. ..	633	..	14	618	
Marquis Hill .. ..	14,477	9,076	2	5,399	
Rodney .. ..	225,078	149,949	2,902	72,228	
Campaspe .. ..	62,642	52,685	305	9,652	
Bacchus Marsh .. ..	14,406	8,906	243	5,257	
Tragowel Plains .. ..	159,848	124,534	444	34,870	
North Boort .. ..	6,978	4,867	52	2,058	
East Boort .. ..	21,567	14,866	184	6,517	
Leaghur and Meering .. ..	5,043	2,543	78	2,422	
Wandella .. ..	30,754	20,929	111	9,714	
Twelve Mile .. ..	5,050	3,250	28	1,772	
Totals .. ..	791,528	540,404	5,591	245,533	245,533
Total .. ..					2,005,795

## LANDS, ETC., 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 16,875 square miles, equal to 10,800,000 acres. The degree of efficiency and completeness of the services is, as may be surmised, widely various. It is satisfactory to know that there is, in general, continuous improvement; and that the conditions of rural life are, in this respect, being ameliorated year by year. The total extent of land under irrigated culture, for all kinds of crop, is 104,920 acres, exclusive of the areas watered by unauthorized diversions, of which no account has yet been taken. These do not probably aggregate more than 40,000 acres. Steps are being initiated to have them accurately recorded and brought under the control of the Commission; a proceeding the more necessary, seeing the Murray Waters Agreement shortly may become law in all the riparian States, when it will be imperative for the Commission to render a periodical account of them.

The number of separate towns supplied, exclusive of that to the city of Melbourne and its suburbs is 111, as shown in the following statement:—

Controlling Authorities.	Number of Town Supplies.	Population Served.
Commission ...	15	75,000
Waterworks Trusts ...	83	111,000
Local Governing bodies ...	13	75,000
Totals ...	111	261,000

One of the trusts controlling town water supply, that of Pyramid Hill, has been called into existence during the past year. Its district was formerly part of that of the Loddon United Trust, for the present, under the control of the Commission; a part of the debt of the Loddon Trust having, with the concurrence of the Commission, been transferred to the new body.

## VALUATION AND RATING.

As the Commission came into existence after rates for the year ended 31st December, 1906, had been made by the late trusts for the several irrigation and water supply districts, these were collected by the Commission as general rates for the year. Then, with a view of making the rate year co-terminous with the financial year of the State, the Commission made general rates for the half-year ended 30th June, 1907; and for this purpose caused valuations to be made of the lands and tenements within the districts. Rates were also made for the year ended 30th June, 1907, in the Sea Lake and Long Lake waterworks districts; valuations for the purpose having been made by authority of the Commission. In the two latter districts, and in ten of the irrigation and water supply districts, the lands were, for the purpose of making and levying rates, arranged in divisions, in accordance with the relative extent of the benefits derived by such lands from the works.

In all districts rates will in future be levied annually, on valuations made by authority of the Commission. In the district of the Loddon United waterworks trust, whose property has been taken possession of by the Commission, the rates have as required by the *Water Act* 1905, been made for the calendar year; for the current rate the municipal valuation of the lands and tenements has been adopted. It is proposed to base future rates on valuations made by direction of the Commission.

The following is a statement of the annual municipal value of lands and tenements, and of the rates levied thereon, by the late trusts, for the year ended 31st December, 1906; with the annual values returned by the Commission's valuers, and the rates levied thereon by the Commission; also of the number of persons dwelling in the districts:—

Name of District.	Annual municipal value of lands and tenements on which rates were made by late trusts.	Rate in the £1 made by late trusts for year ended 31st December, 1906.	Annual value of lands and tenements as returned by valuers appointed by Commission.	Rate in the £1 made by Commission for half-year ended 30th June, 1907.	Number of persons dwelling in districts.
	£	s. d.	£	s. d.	
Cohuna .. ..	11,642	.. .. 7 0	17,835	{ Div. 1 2 4 Div. 2 1 2 }	1,005
Koondrook and Myall	1,471	.. .. 4 6	1,751	.. 2 3	96
Benjeroop and Murrabit	2,649	.. .. 2 0	4,138	{ Div. 1 1 0 Div. 2 0 6 }	162
Swan Hill .. ..	2,038	.. .. 7 0	3,818	{ Div. 1 2 0 Div. 2 1 0 }	224
Gunbower West ..	1,138	.. .. 5 0	2,167	.. 1 6	100
Kerang East .. ..	1,905	.. .. 4 6	2,791	.. 1 6	198
Macorna North ..	3,113	{ Div. 1 .. .. 2 6 Div. 2 .. .. 5 0 }	3,979	{ Div. 1 2 0 Div. 2 1 0 Div. 3 0 6 }	218
Dry Lake .. ..	..	.. .. ..	..	.. ..	9
South Kerang ..	344	.. .. 3 0	528	.. 1 6	29
Marquis Hill .. ..	1,236	.. .. 5 0	1,664	{ Div. 1 2 0 Div. 2 1 0 }	96
Rodney .. ..	59,565	.. .. 1 6	105,908	{ Div. 1 0 6 Div. 2 0 3 Div. 3 0 1½ }	4,211
Campaspe .. ..	7,992	.. .. 1 6	Works damaged by floods. No rate made.		
Bacchus Marsh (Irrigation District)	1,560	Werribee .. .. 2 0	13,678	.. ..	700
Bacchus Marsh Urban	5,218	Urban .. .. 1 6	2,214	.. 1 0	52
			5,608	.. 0 9	1,000
			(Municipal)		
Tragowel Plains ..	19,276	{ Div. 1 .. .. 0 9 Div. 2 .. .. 1 6 Div. 3 .. .. 2 4 Div. 4 .. .. 2 6 }	22,820	{ Div. 1 1 1 Div. 2 0 6½ }	969
North Boort .. ..	1,344	.. .. 1 6	1,965	{ Div. 1 1 0 Div. 2 0 6 }	85
East Boort .. ..	3,122	.. .. 2 0	4,429	{ Div. 1 1 0 Div. 2 0 6 }	124
Leaghur and Meering	1,185	.. .. 1 6	1,461	{ Div. 1 1 0 Div. 2 0 6 }	103
Wandella .. ..	2,682	.. .. 2 0	3,514	.. 1 0	219
Twelve Mile .. ..	1,004	.. .. 1 9	1,119	.. 1 0	83
				For year ended 30th June, 1907.	
Long Lake .. ..	No valuation	2d. per acre made by Department of Water Supply	26,367	{ Div. 1 2 9 Div. 2 1 4½ Div. 3 0 8¼ }	1,102
Sea Lake .. ..	No valuation	Nil .. ..	36,899	{ Div. 1 2 0 Div. 2 1 0 Div. 3 0 6 }	2,333
		{ Marong Shire division .. 0 6 East Loddon Shire division .. 0 6 No. 1 East division 1 6 No. 2 East division 1 0 Gordon Shire No. 3 East division 6 9 No. 1 West division 2 0 No. 2 West division 1 6 No. 3 West division 0 9 Korong Shire No. 1 division .. 1 4 No. 2 division .. 0 9 Charlton division .. 0 6 }	61,615	Rate for year ended 31st December, 1907.	
Loddon United Waterworks Trust*	61,615 †		(Municipal) Valuation now being made by Commission.	Same as last year	2,600

\* Taken over by the Auditor-General, and transferred to Commission as provided by Section 278, *Water Act 1905*.

† Rate made by Auditor-General.

#### GEE LONG AREA AND COLIBAN DISTRICT.

For the Geelong water supply area and the Coliban waterworks district by-laws have been made imposing rates similar in amount to those of the previous year. These have been published in the *Government Gazette* (see page 3489), and in newspapers circulating in the districts affected. The Geelong area and the Coliban district, being urban districts, the rates levied therein have been based on the municipal valuations, as provided by the Act.

## LANDS UNDER IRRIGATED CULTURE.

## STATEMENT OF THE EXTENT OF IRRIGATION AND OF AREAS OF DIFFERENT KINDS OF CROPS WATERED—YEAR 1906-7.

Name of District.	Areas Irrigated (Acres).										
	Cereals.	Lucerne and other Permanent Fodder Crops.	Sorghum and other Annual Fodder Crops.	Pastures.	Vineyards, Orchards, and Gardens.	Fallows.	Miscellaneous.	Total Watering, in acres.	Net Area of District, &c., exclusive of Roads and Reserves.	Actual Area Irrigated.	Average Number of Waterings.
<i>Supplied from Goulburn State Works.</i>											
Rodney .. ..	66	16,840	261	6,981	5,197	1,532	29	30,906	269,000	23,103	1.3
Echuca and Waranga .. ..	..	5,565	154	4,316	177	228	..	10,440	300,000	7,956	1.3
Total .. ..	66	22,405	415	11,297	5,374	1,760	29	41,346	569,000	31,059	
<i>Supplied from Kow Swamp State Works.</i>											
Dry Lake .. ..	..	..	..	600	12	..	..	612	1,510	604	1.0
Gunbower West .. ..	130	1,003	301	1,420	26	..	..	2,880	9,790	1,801	1.6
Kerang East .. ..	747	108	1,572	2,580	20	12	..	5,039	18,100	3,575	1.4
Macorna North .. ..	478	80	1,753	7,859	..	..	..	10,170	27,300	7,484	1.3
Marquis Hill .. ..	173	142	143	2,523	..	..	..	2,981	10,930	2,172	1.4
South Kerang .. ..	10	285	164	524	6	..	..	989	2,630	622	1.6
Wandella (portion of) .. ..	328	718	320	2,217	4	13	10	3,610	9,940	2,672	..
Total .. ..	1,866	2,336	4,253	17,723	68	25	10	26,281	80,200	18,930	
<i>Supplied from Loddon State Works.</i>											
Wandella (portion of) .. ..	440	956	425	2,956	5	17	15	4,814	13,260	3,563	..
East Boort .. ..	374	58	79	1,128	30	..	..	1,669	30,000	1,284	1.3
Leagur and Meering .. ..	202	14	74	775	16	..	..	1,081	10,300	986	1.1
North Boort .. ..	165	45	..	296	4	..	..	510	10,000	510	1.0
Tragowel Plains .. ..	3,606	754	720	5,595	111	74	..	10,860	180,900	9,223	1.2
Twelve-Mile .. ..	379	28	180	580	1	..	..	1,168	9,030	1,053	1.1
Totals .. ..	5,166	1,855	1,478	11,330	167	91	15	20,102	253,490	16,619	
<i>Not supplied from State Works.</i>											
Bacchus Marsh .. ..	..	17	..	..	..	..	..	17	910	17	1.0
Benjeroop and Murrabit .. ..	678	466	87	243	52	..	9	1,535	19,740	1,331	1.2
Campaspe .. ..	..	60	..	40	..	..	..	100	44,590	100	1.0
Cohuna .. ..	1,006	5,819	3,350	8,381	806	24	14	19,400	94,230	13,019	1.5
Koondrook and Myall .. ..	200	348	234	1,729	29	..	..	2,540	12,590	2,053	1.2
Swan Hill .. ..	1,033	5,466	79	2,064	82	12	..	8,736	14,400	5,075	1.7
Western Wimmera .. ..	..	57	41	41	719	..	1	859	1,578,030	..*	*
Total .. ..	2,917	12,233	3,791	12,498	1,688	36	24	33,187	1,764,490	21,595	
Lands supplied from Kerang North-west Lakes .. ..	834	256	246	3,927	..	10	..	5,273	..	5,263	1.0
Lands supplied directly from Kow Swamp State Works	178	..	..	2,233	4	..	..	2,415	..	2,415	1.0
First Mildura .. ..	1,042	2,288	..	..	28,640	..	..	31,970	35,000	7,189	4.4
Grand Totals .. ..	12,069	41,373	10,183	59,008	35,941	1,922	78	160,574	2,702,180	103,076	

\* Not stated.

District.	Crop.	Areas Irrigated.
Coliban ... ..	Orchards ... ..	Acres. 800
	Fodder Plants ... ..	700
	Culinary Vegetables, &c.	350
	Total	1,850



The following shows the depths of water supplied in some of the districts for certain crops :—

District.	Crop.	Depth of Water Applied. (One watering.)			Prevailing character of Soil.
		Max. inches.	Min. inches.	Mean inches.	
Rodney ... ..	Lucerne ... ..	8.4	3.6	5.5	Red loam, timbered country
Cohuna ... ..	" ... ..	9.0	4.0	5.4	Sandy loam, timbered country
Swan Hill ... ..	" ... ..	14.0	8.4	10.2	Black river flats
Macorna North ... ..	Sorghum ... ..	7.1	5.6	6.1	Red and grey clay plains

### CONTRACTS.

STATEMENT OF CONTRACTS ENTERED INTO DURING THE YEAR ENDED 30TH JUNE, 1907.

No.	Name of Contractor.	Purpose of Contract.	Amount.			Remarks.
			£	s.	d.	
2	Henry Moorhouse ..	Contour Survey of Southern Section Rodney Irrigation and Water Supply District, 169 square miles, at £4 10s. per square mile	760	10	0	Cancelled, 13.11.06
3	Keele and Drape ..	Contour Survey of Northern and Central Sections of Rodney Irrigation and Water Supply District, 227 square miles, at £4 2s. per square mile	930	14	0	
4	North Brothers ..	Supply of 3,000 tons of Firewood at Cohuna	475	0	0	
5	Joseph Nixon and Sons	Supply of 60 tons of 3 and 4-inch C.I. pipes — Eaglehawk Reticulation, Coliban District	536	14	0	
6	Austral Otis Engineering Coy. Limited	Supply of 108 tons of 9 and 4 inch C.I. pipes—Main from Solomon's Gully Reservoir, Bendigo, Coliban District	1,003	5	6	
7	W. Schmedes ..	Supply of 1,000 tons of Firewood at Maldon, Coliban District	275	0	0	
8	Keele and Drape ..	Contour Survey of Southern Section, Rodney Irrigation and Water Supply District, about 169 square miles, at £4 10s. per square mile	760	10	0	Superseding Contract No. 2, which was cancelled
9	R. E. Beer ..	Erection of Quarters, Kow Swamp Head-works	220	0	0	
10	Philip Grogan ..	Construction of portion of Tungie Channel, Sea Lake Waterworks District	139	6	3	
11	H. H. Whitfield ..	Construction of portion of Tungie Channel, Sea Lake Waterworks District	168	8	0	
12	H. H. Whitfield ..	Construction of portion of Tungie Channel, Sea Lake Waterworks District	207	19	0	
13	A. Roberts and Sons ..	Supply of 95 tons of 18-inch and 9-inch C.I. pipes for deviation of 18-inch main to Eaglehawk, Barnard and Wattle streets, Bendigo, Coliban District	1,192	8	0	
14	Donald Martin ..	Supply of 600 tons of Firewood, Long Lake District	180	0	0	
15	W. W. Moore and Sons	Erection of Offices at Pyramid Hill, Loddon Centre	280	0	0	
16	James Whelan ..	Construction of portion of Nullawil Channel, Sea Lake Waterworks District	128	5	0	
17	Geo. Beasley ..	Construction of portion of Nullawil Channel, Sea Lake Waterworks District	143	2	6	
18	Geo. Beasley ..	Construction of portion of Nullawil Channel, Sea Lake Waterworks District	150	7	6	
19	Josiah Coates ..	Construction of portion of Nullawil Channel, Sea Lake Waterworks District	148	11	0	

CONTRACTS ENTERED INTO DURING THE YEAR ENDED 30TH JUNE, 1907—*continued.*

No.	Name of Contractor.	Purpose of Contract.	Amount.	Remarks.
20	Josiah Coates.. ..	Construction of portion of Nullawil Channel, Sea Lake Waterworks District	£ s. d. 148 15 6	
21	Josiah Coates.. ..	Construction of portion of Nullawil Channel, Sea Lake Waterworks District	190 8 6	
22	Bankin and Beckham ..	Construction of portion of Woome- lang and Willangie Channel, Sea Lake Waterworks District	214 18 3	
23	P. E. Noonan ..	Construction of portion of Perrit Channel, Sea Lake Waterworks District	203 19 6	
24	F. M. O'Donnell ..	Construction of portion of Perrit Channel, Sea Lake Waterworks District	161 19 0	
25	Alex. Bankin ..	Construction of portion of Woome- lang and Willangie Channel, Sea Lake Waterworks District	158 15 4	
26	Alex. Bankin ..	Construction of portion of Woome- lang and Willangie Channel, Sea Lake Waterworks District	163 0 0	
27	Wm. Sands ..	Construction of portion of Woome- lang and Willangie Channel, Sea Lake Waterworks District	227 19 0	
28	Robert Gunn ..	Construction of portion of Woome- lang and Willangie Channel, Sea Lake Waterworks District	214 4 6	
29	Robert Gunn ..	Construction of portion of Woome- lang and Willangie Channel, Sea Lake Waterworks District	305 17 6	
30	P. E. Noonan ..	Construction of portion of Woome- lang and Willangie Channel, Sea Lake Waterworks District	248 7 5	
31	P. E. Noonan ..	Construction of portion of Woome- lang and Willangie Channel, Sea Lake Waterworks District	165 7 4	
32	James Donnelly ..	Construction of Southern Channel, Branch No. 6, Long Lake Water- works District	52 10 0	
33	Ward Brothers ..	Construction of Northern Channel, Branch No. 2, Long Lake Water- works District	213 9 2	
34	E. J. Stewart.. ..	Construction of Northern Channel, Branch No. 2, Long Lake Water- works District	100 16 8	
35	J. and J. Henderson ..	Construction of Southern Channel, Branch No. 2, Long Lake Water- works District	201 15 10	
36	Andrew Steele ..	Construction of portion of Woome- lang and Willangie Channel, Sea Lake Waterworks District	192 12 6	
37	Geo. Beasley ..	Construction of portion of Woome- lang and Willangie Channel, Sea Lake Waterworks District	241 2 0	
38	W. Tuck ..	Construction of portion of Southern Channel, Branch No. 4, Long Lake Waterworks District	26 3 4	
39	Geo. Barton ..	Construction of portion of Northern Channel, No. 3, Long Lake Water- works District	118 2 6	
40	Donald Martin ..	Supply of 400 tons of Firewood, Long Lake Waterworks District	130 0 0	
41	Keele and Drape ..	Contour Survey of about 150 square miles of Parishes of Murrabit, Murrabit West, and Gannawarra, Kerang District, at £5 15s. per square mile	862 10 0	
42	W. G. Spencer ..	Supply of 200 tons of Firewood, Long Lake Waterworks District	75 6 0	

CONTRACTS ENTERED INTO DURING THE YEAR ENDED 30TH JUNE, 1907—*continued.*

No.	Name of Contractor.	Purpose of Contract.	Amount.			Remarks.
			£	s.	d.	
43	Harry Smith .. ..	Construction of 1st Section of Axe Creek Extension of Spring Gully Race, Coliban District, 5¼ miles	1,419	0	0	Determined, 12.8.07
44	Harry Smith .. ..	Construction of 2nd Section of Spring Gully Race, Coliban District, 5¼ miles	790	12	0	
45	C. J. Ware .. ..	Construction of portion of Nullawil Channel, Sea Lake Waterworks District	155	15	0	
46	G. Weymouth Proprietary Ltd.	Alterations to Pumping Plant, Murray River, Coluna Irrigation and Water Supply District	3,180	9	0	
47	Wm. Sands .. ..	Construction of portion of Perrit Channel, Sea Lake Waterworks District	154	19	6	
48	M. Considine .. ..	Construction of portion of Perrit Channel, Sea Lake Waterworks District	177	14	6	
49	M. Considine .. ..	Construction of portion of Perrit Channel—Sea Lake Waterworks District	219	14	5	
50	D. McNamara .. ..	Construction of portion of Perrit Channel, Sea Lake Waterworks District	157	3	10	
51	D. McNamara .. ..	Construction of portion of Perrit Channel, Sea Lake Waterworks District	109	5	9	
52	A. H. King .. ..	Construction of portion of Perrit Channel, Sea Lake Waterworks District	172	8	6	
53	A. H. King .. ..	Construction of portion of Perrit Channel, Sea Lake Waterworks District	168	17	2	
54	Austral Otis Engineering Coy. Ltd.	Supply of 171 tons of 12-inch, and 10 tons of 7-inch C.I. pipes, and 7 tons of special castings—Main, High-street, Bendigo, Coliban District	1,846	0	7	
55	J. J. Nioa .. ..	Construction of portion of Southern Channel Branch, No. 6, Long Lake Waterworks District	45	0	0	
56	James Donnelly .. ..	Construction of portion of Mumbel Channel, Long Lake Waterworks District	43	10	10	
57	James Donnelly .. ..	Construction of portion of North Lalbert Channel, Long Lake Waterworks District	51	9	2	
58	Norman McDonald .. ..	Construction of portion of Tungie Channel, Sea Lake Waterworks District	1,181	9	4	
59	Donald Martin .. ..	Supply of about 3,000 tons of Firewood, Long Lake Waterworks District	1,012	10	0	
30	W. J. Whitten .. ..	Construction of portion of North Woorinen Channel, Long Lake District	49	19	2	
61	E. J. Stewart .. ..	Construction of portion of North Woorinen Channel, Long Lake District	49	5	5	
62	E. J. Stewart .. ..	Construction of portion of North Woorinen Channel, Long Lake District	48	2	6	
63	G. Barton .. ..	Construction of portion of Yarraby Channel Extension, Long Lake District	130	17	1	
64	R. J. Mitchell .. ..	Construction of Lowe's Channel, Long Lake District	67	16	8	

WORKS CARRIED ON OR COMPLETED DURING THE YEAR  
ENDED 30TH JUNE, 1907.

COLIBAN WORKS.

Extensions and improvements of pipe reticulation were carried out in Eaglehawk at a cost of £1,125; and in Bendigo the old 6-inch main from Solomon's Gully Reservoir was replaced by a 9-inch pipe at a cost of £1,375. The result in each case has been a greatly improved supply. A deviation of the 18-inch main to Eaglehawk, in Barnard and Wattle streets, was carried out at a cost of £1,417; it being found necessary to discard the portion of the main in Robshaw-street, under the sand heap of the Garden Gully mine, where a serious burst, during the summer, had caused much public inconvenience. Minor extensions and improvements of the pipe reticulation have also been carried out in Bendigo, Castlemaine, Maldon, &c.

An irrigation scheme to serve about 1,000 acres of Crown, and 1,500 acres of private, lands, by an extension of the Spring Gully race to Axe Creek, was prepared early in the year; and, the necessary funds, £4,500, having been provided by Parliament, the work was commenced in May. It is expected that the race will be ready to supply water by the end of October; whereupon the Crown lands commanded will be made available for settlement.

Schemes have been examined for the extension of the Harcourt Gardens race to further orchard lands, not at present served; and of the Wilson Hill race, in the Shire of Marong. The success attending the irrigated culture of gardens and orchards about Bendigo and Castlemaine opens a prospect of the further development of this branch of industry in these districts.

GEELONG WORKS.

A few small extensions of the pipe reticulation have been carried out during the year.

IRRIGATION AND WATER SUPPLY DISTRICTS.

*Rodney District.*

The works of this district having been fairly maintained in the past, no exceptional outlay was called for on their account. Contracts by the late trust for the construction of channels have been completed at a cost of £1,188. Parish plans on a scale of 20 chains to an inch, incorporating the results of the survey hereinafter referred to, and showing the natural surface contours at every foot of elevation, have been printed, and are for sale at 2s. 6d. each. The channels at Wyuna Estate will shortly be ready to be taken over by the Commission. Arrangements have been made for the transference of that portion of the estate in the Echuca and Waranga trust district to the Rodney district.

*Districts Administered from the Kerang Centre.*

These are Cohuna, Koondrook and Myall, Benjeroop and Murrabit, Swan Hill, Gunbower West, Kerang East, Macorna North, South Kerang, Dry Lake, Marquis Hill, and Wandella. The works in these districts were for the most part in such a state, when taken over, that extensive repairs were necessary. Though much has been done during the year, considerable arrears remain; so that it will probably be two years yet before the channels are in good order; and heavy maintenance charges must continue until the arrears are overtaken. The pumps drawing the summer supply to Cohuna district from the Murray River are inadequate, the delivery averaging only 3,000 cubic feet per minute. Steps have been taken to enlarge the plant to a capacity of 6,000 before next summer.

Settlers in the Benjeroop and Murrabit irrigation district obtain water from the Murray by gravitation only; and it is not available to them unless the river is at least 8 feet above summer level. A scheme now under investigation is intended to provide water in the summer season. The examination is being extended also to an area of suitable land between the Pyramid Creek and the Murray, not at present included in any irrigation district.

The channel lines in the Swan Hill district have been so badly selected that they are both inadequate and costly to maintain. The pumping plant is also inefficient. A survey has been completed, and a design is being prepared of an amended system.

*Districts Administered from the Loddon Centre.*

These include Tragowel Plains, North Boort, East Boort, Leaghur and Meering, and Twelve-Mile. Urgent repairs only of works were undertaken during the year; the conditions being unfavorable owing to the demand for water being almost continuous. Repairs in some districts were, however, imperative, owing to the neglected condition of the works coming into the hands of the Commission. Steps have been taken to improve the supply to the North Boort district by connecting the channels to those of East Boort, and thus avoiding some of the loss of water by evaporation.

*Campaspe District.*

Much damage was done to the works of this district by the flood of September, 1906. The embankment crossing the flat, connecting the weir in the river with the high land on the right bank, was overtopped by the flood and carried away; as was also the earthwork of the regulators of the Eastern and Western main channels. The channels themselves also were silted up, the banks damaged, and some of the structures wrecked. The cost of repairs is estimated at £7,500. The works in the river cannot be carried out till next summer; but channel repairs have been completed, and the supply of water to the district resumed. The district can, however, have no satisfactory service until a storage work is provided on the Campaspe, the flow of which ordinarily ceases in the summer when water is most in demand.

*Bacchus Marsh District.*

Floods in the Werribee last winter damaged the irrigation channels, which generally follow the river bank. In places where they are concrete lined the land carrying them slipped bodily into the river, entailing expensive replacements. Two syphons also, crossing the river, were washed away and had to be replaced. Hence the cost of maintenance for the year has been heavy.

The limited supply of water in the summer restricts the benefits of this scheme. In the report on the proposal to irrigate the Werribee Estate, a more assured supply is recommended for Bacchus Marsh from the reservoir to be constructed at Pyke's Flat.

## LONG LAKE WATERWORKS DISTRICT.

During the year under review, there were 50 miles of distributary branch channels constructed. There were also surveyed and set out 65 miles of service channels, on lands occupied by farmers. Strictly, this is no part of the functions of the Commission, or of the duty of its officers. It was undertaken in view of the great service it would render to the settlers, and the difficulty they would have had in obtaining the assistance of private surveyors.

## SEA LAKE WATERWORKS DISTRICT.

In this district 75 miles of distributary branches have been carried out, and 45 miles of service channels laid out for settlers. It is to be understood that the latter work is done free of cost to the parties.

## FREE HEAD WORKS.

The expenditure on these was limited to ordinary maintenance, except in the case of the Kow Swamp storage, where a sum of £1,200 was required to make good flood damage.

## GAUGING OF RIVERS.

As provided by Sec. 38 of the Act, the work of gauging and recording the volume, from day to day, of the flow of rivers and streams, and the volume of lakes and lagoons, has been continued. During the year a report, compiled under the direction of the Chairman, being a complete statement of the tabulated results, from the commencement of the work to the end of 1905, was issued by the Commission. In the case of the Murray River these gaugings, in relation to Echuca and Mildura, extend as far back as 1865, and as to Albury to 1877. Most of the others go back to 1885. All are brought down to date, and are being continued. The early Mildura records of water levels in the river was obtained, by a fortunate chance, from documents preserved at an old station homestead; those for Echuca and Albury from the files of the Melbourne daily press. The observations of the past twenty-two years are by our own officers. The early records have been verified with as much precision as the circumstances admit.

Besides river gaugings, the publication contains much general information, the result of observations, of rainfall and its relation to river discharge; and of losses, from rivers and lakes and from channels and reservoirs, by percolation and evaporation. Statements are given of analyses of natural waters, with tables of the matters found in solution and of the solids held in suspension. There are also discussions, with results of investigations, of the methods in use for measuring flowing water, for rating water meters, for ascertaining the discharge of pipes, &c., under different conditions and varying heads of pressure, with other matter of like practical value and scientific interest.

## PROPOSALS AND REPORTS ON NEW PROJECTS OF WATER SUPPLY AND IRRIGATION.

### MURRAY RIVER FRONTAGE LANDS.

#### *White Cliffs.*

At the instance of the Hon. the Minister of Water Supply, a proposal is being examined and reported on, for the establishment of an irrigation settlement at White Cliffs, adjacent to the Murray River, immediately down stream from the land, the subject of the Mildura concession. It will probably embrace about 5,000 acres irrigable, near the river frontage, divided into settlement blocks of about 50 acres. With each irrigable block, and included in the same certificate of title, it is proposed to allot a block of about one square mile of *dry* land in the adjoining back country. A supply of water is intended to be pumped from the river, sufficient for the effective irrigation of the frontage lots, and for a proper stock and general supply to the back country. The whole settlement will thus include an area of over 100 square miles, and should provide homesteads for 100 families. The survey of the lands and trial surveys for works are well forward.

#### *Nyah.*

Another project remitted to the Commission for report is for the establishment of a settlement at Nyah, about 16 miles below the town of Swan Hill. The area here proposed for irrigation is about 2,000 acres, divided into blocks of about 40 or 50 acres each. It will be watered by a pumping plant on the river, as at White Cliffs; the plant being of sufficient capacity to provide a liberal domestic and stock supply to a further tract of 1,000 square miles of *dry* country. Of the latter, an area of 160 square miles, about 102,000 acres, is already settled, but has no reliable or efficient water service. Surveys are in progress with a view to subdivision of the lands. Arrangements are also on foot for the resumption, on equitable terms, of so much of the occupied holdings as will reduce them to the extent proposed for irrigation blocks.

### WERRIBEE.

At the Minister's request, a report was made on the general water supply requirements and irrigability of the lands recently purchased for closer settlement at Werribee. In conjunction with this, were also proposals to extend and improve the irrigation at Bacchus Marsh, and the general water supply to the lands of the Werribee River valley.

### WIMMERA DISTRICT CONTROL.

The water supply of the Wimmera district is under the control of four waterworks trusts, constituted under Acts repealed by the *Water Act* 1905, and of some authorities exercising powers conferred by other Statutes. The oldest of these trusts was one of the first constituted in Victoria; some of its works having been originally constructed by the local shire councils as far back as nearly thirty years ago. The sources of supply—the only sources available—not only for the districts originally constituted, nor even for those now dependent on these sources, but for a vastly larger area to the north, in which settlement is undergoing rapid extension and development, are within the districts practically under the control of the Wimmera United and Western Wimmera Trusts. The other bodies interested have, nominally, at least, a voice, and the Water Supply Department has certain rights of general supervision. But, as might be supposed, the effective management of the distribution is, in fact, in the hands of the

trusts named. As might further be supposed, these bodies display a certain unwillingness to consider the interests of the more recently settled, and of the still unsettled, country to the north ; or to involve their constituents in responsibilities on its account. In consequence of these difficulties it has been proposed that Parliament be asked to agree to a resolution, as provided by Sec. 154 of the Act, which would enable the Governor in Council to make an Order placing the districts and works under the management and control of the Commission. A report embodying the views of the Commission on these proposals has already been made public.

#### GENERAL.

##### REGISTER OF LANDS—IRRIGATION AND WATER SUPPLY DISTRICTS.

Section 56 of the Act provides for the compilation of a register of the lands within each irrigation and water supply district under the jurisdiction of the Commission, and for the periodical revision of the register. It is required to show the situation and extent, and the adaptability for irrigated culture, of the lands commanded, by gravitation, with water from the works. For the compilation of the register, detailed contour surveys are required of the whole of each district, these being also of great service to the land-holders in the laying out, grading, and preparation of their farms.

Such a survey has been made of the Rodney Irrigation and Water Supply District, lithographed copies of the plans being for sale at a moderate price. The Officers of the Commission are preparing a register from the contour plans. On its completion, a valuation will be made as provided by the Act. There are also in progress contour surveys of the lands in the Kerang Centre, the work being already well advanced.

##### CHARGES FOR WATER SOLD FOR IRRIGATION.

Pending the completion of the register of lands for the several irrigation and water supply districts, and the levying of an irrigation charge, the Commission sells water for irrigation in each of these districts at the rates fixed by the Regulations of the Trust having jurisdiction over such district, immediately prior to the coming into force of the Act.

##### ADMINISTRATION OF IRRIGATION AND WATER SUPPLY DISTRICTS.

The system of administration through local officers, resident secretary and collector, and resident engineer, for each of the several centres, having proved satisfactory, has been adhered to during the past year. The office of the Loddon Centre for the irrigation and water supply districts of Tragowel Plains, North Boort, East Boort, Leaghur and Meering, and Twelve-Mile, has been removed from Mincha to Pyramid Hill.

##### ADMINISTRATION OF WATERWORKS DISTRICTS.

The Long Lake and Sea Lake Waterworks Districts continue to be administered from the Head Office. The management of the Loddon United Waterworks Trust has been placed under the control of the Resident Secretary and Collector stationed at Loddon Centre, whose offices are at Pyramid Hill.

##### MEASUREMENT OF WATER.

At the beginning of last watering season, five Grant-Michell meters were obtained, and kept in use throughout the summer. They are of the fan type, and register the volume delivered through an orifice, in which the fan is placed. They are movable, so that each meter may be used to serve six or eight outlets. Their action was so far satisfactory that it is proposed to extend their use in the coming season.

##### PROVISION OF PRIVATE TANKS.

By Sec. 177 of the Act it is provided that the Commission may, in respect of districts under its jurisdiction, require land-holders to construct proper and sufficient storage tanks or dams for the service of their properties, and proper channels to convey water to them. This is necessary in the interest of the farmer himself, no less than in that of the Commission. Notices to this effect have been served throughout the districts of Long Lake, Cohuna, Koondrook and Myall, Benjeroop and Murrabit, Swan Hill, Gunbower West, Kerang East, Macorna North, South Kerang, Marquis Hill, Wandella, Tragowel Plains, North Boort, East Boort, Leaghur and Meering, and Twelve-mile.

## RECEIPTS AND DISBURSEMENTS.

STATEMENT OF THE MONEYS RECEIVED AND DISBURSED DURING THE YEAR  
ENDED 30TH JUNE, 1907.

Works.	Revenue.	Expenditure.			Excess.	
		From annual votes, including proportion of head office expenses.	Deduct expenditure on capital works.	Net expenditure on maintenance and management.	Revenue over net expenditure.	Expenditure over revenue.
	1.	2.	3.	4.	5.	6.
	£	£	£	£	£	£
Geelong Works .. ..	15,158	4,319	690	3,629	11,529	
Coliban Works .. ..	37,223	16,634	4,969	11,665	25,558	
Goulburn Works .. ..	108	1,477	..	1,477	..	1,369
Loddon River Works .. ..	12	337	..	337	..	325
Kow Swamp Works .. ..	180	3,525	..	3,525	..	3,345
Broken River Works .. ..	7	293	..	293	..	286
North-west Lakes .. ..	65	269	..	269	..	204
Mallee—						
Lake Lonsdale .. ..	138	219	..	219	..	81
Distributary Channels (Sea Lake) .. ..	1,312	3,999	..	3,999	..	2,687
Long Lake .. ..	4,157*	2,477	..	2,477	1,680	..
Lower Wimmera .. ..	..	148	..	148	..	148
Irrigation and Water Supply Districts .. ..	30,175	24,926	3,210	21,716	8,459	
Licences, Diversions, Pumping ..	306	..	..	..	306	
Miscellaneous .. ..	6	..	..	..	6	
	88,847	58,623	8,869	49,754	47,538	8,445
<i>Not Revenue producing—</i>						
River Gauging and Surveys ..	..	2,154	..	2,154	..	2,154
New Projects .. ..	..	793	..	793	..	793
Loan Works—						
Services on account of, defrayed from Vote ..	..	759	..	759	..	759
	88,847	62,329	8,869	53,460	47,538	12,151

\* Including £2,348 rate made by Water Supply Department and interest thereon.

RECEIPTS AND DISBURSEMENTS FROM THE GEELONG AND COLIBAN WORKS FOR THE  
YEAR ENDED 30TH JUNE, 1907.

Works.	Total debit to capital at 30th June, 1907.	Expenditure from Consolidated Revenue.		Receipts paid into Treasury, year ended 30th June, 1907. Receipts for preceding year shown in brackets.	Receipts over expenditure on maintenance and management, showing percentage on total cost. Same for preceding year shown in brackets.
		Interest on capital.	Net maintenance and management, including proportion of head office expenses.		
	£	£	£	£	£
Geelong Works .. ..	456,700	15,408	3,629	15,158 (13,470)	11,529 = 2½ per cent. (10,085 = 2½ per cent.)
Coliban Works .. ..	1,227,550	40,883	11,665	37,223 (34,045)	25,558 = 2 per cent. (23,607 = 1 9/10 per cent.)



STATEMENT of Moneys received and disbursed in respect of Irrigation and Water Supply Districts from 1st May, 1906, to 30th June, 1907; and of Interest at 4 per cent. on Capital Debts (except Free Head-works) due at 30th June, 1907.

## RECEIPTS.

District.	From 1st May to 30th June, 1906.				From 1st July, 1906 to 30th June, 1907.				Grand Total.	
	Cash and Bank Balance at 1st May, 1906, taken over.	Rates.	Sales of Water.	Interest and Miscellaneous.	Total.	Rates.	Sales of Water.	Interest and Miscellaneous.		Total.
Cohuna .. ..	£ 1,658	£ 163	£ 141	£ 27	£ 1,992	£ 5,838	£ 1,296	£ 32	£ 7,166	£ 9,158
Koondrook and Myall .. ..	26	149	58	..	233	375	168	6	549	782
Benjeroop and Murrabit .. ..	31	60	54	1	146	438	144	6	588	734
Swan Hill .. ..	2	..	95	..	97	632	584	13	1,229	1,326
Gunbower West .. ..	10	45	15	..	70	401	130	3	534	604
Kerang East .. ..	33	13	35	1	82	642	351	7	1,000	1,082
Macorna North .. ..	18	..	36	..	54	1,185	332	8	1,525	1,579
Dry Lake .. ..	..	..	..	..	..	..	..	43	43	43
South Kerang .. ..	14	21	17	..	52	80	53	4	137	189
Marquis Hill .. ..	155	10	6	..	171	517	175	7	699	870
Rodney .. ..	1,214	89	302	..	1,605	6,356	2,770	54	9,180	10,785
Campaspe .. ..	174	125	2	..	301	416	16	16	448	749
Bacchus Marsh .. ..	10	301	..	1	312	275	269	119	663	975
Tragowel Plains .. ..	..	312	61	12	385	3,312	568	38	3,918	4,303
North Boort .. ..	10	20	11	..	41	189	76	1	266	307
East Boort .. ..	45	10	32	3	90	598	84	11	693	783
Leaghur and Meering .. ..	29	12	4	..	45	152	51	1	204	249
Wandella .. ..	91	95	166	..	352	629	471	29	1,129	1,481
Twelve-Mile .. ..	32	10	5	..	47	138	52	10	200	247
Miscellaneous .. ..	..	..	..	..	..	..	..	4	4	4
Totals .. ..	3,552	1,438	1,040	45	6,075	22,173	7,590	412	30,175	36,250

## DISBURSEMENTS AND INTEREST DUE.

District.	DISBURSEMENTS.			Interest due.			Grand Total.	
	1st May to 30th June, 1906.	1st July, 1906, to 30th June, 1907.	Total 1st May, 1906, to 30th June, 1907.	Arrears at 1st May, 1906.	1st May to 30th June, 1906.	1st July, 1906, to 30th June, 1907.		Total at 30th June, 1907.
Cohuna .. ..	£ 816	£ 6,241	£ 7,057	£ 2,534	£ 378	£ 2,269	£ 5,181	£ 12,238
Koondrook and Myall .. ..	159	549	708	108	22	133	263	971
Benjeroop and Murrabit .. ..	181	206	387	221	38	227	486	873
Swan Hill .. ..	223	1,387	1,610	64	32	193	289	1,809
Gunbower West .. ..	122	135	257	305	39	236	580	837
Kerang East .. ..	224	468	692	273	47	281	601	1,293
Macorna North .. ..	456	905	1,361	348	69	416	833	2,194
Dry Lake .. ..	1	..	1	24	5	29	58	59
South Kerang .. ..	19	42	61	21	4	25	50	111
Marquis Hill .. ..	239	486	725	496	36	216	748	1,473
Rodney .. ..	694	5,387	6,081	926	469	2,817	4,212	10,293
Campaspe .. ..	35	1,207	1,242	115	58	348	521	1,763
Bacchus Marsh .. ..	68	707	775	70	35	211	316	1,091
Tragowel Plains .. ..	256	2,286	2,542	858	232	1,395	2,485	5,027
North Boort .. ..	15	393	408	58	13	82	153	561
East Boort .. ..	34	492	526	167	44	261	472	998
Leaghur and Meering .. ..	22	278	300	81	16	97	194	494
Wandella .. ..	197	384	581	128	65	388	581	1,162
Twelve-Mile .. ..	16	163	179	23	12	71	106	285
Totals .. ..	3,777	21,716*	25,493	6,820	1,614	9,695	18,129	43,622

## SUMMARY.

Total Receipts .. .. £36,250  
 Total DISBURSEMENTS and Interest due .. .. 43,622

Balance DISBURSEMENTS and Interest over Receipts at 30th June, 1907 .. .. £7,372 †

\* Exclusive of Capital Expenditure on Works—

Swan Hill, Surveys .. .. £450  
 Rodney, Surveys .. .. 1,809  
 Campaspe, Reinstatement of Works .. .. 942

£3,210

† Includes £6,820, arrears of interest taken over from trusts.

STATEMENT of Moneys received and disbursed in respect of the Long Lake and Sea Lake Waterworks Districts for the year ended 30th June, 1907; and of Interest at 4 per cent. on Capital Debits (except Free Head-works) for the same period.

District.	Receipts.				Disbursements and Interest due.				Disbursements and Interest due over Current Receipts.
	Arrears of Rates made by Water Supply Department.	Current Rates made by Commission.	Interest on Rates made by Water Supply Department.	Total.	Expenditure on Works other than Free Head-works.	Expenditure on Free Head-works.	Interest due 30th June, 1907, except on Free Head-works.	Total.	
Long Lake ..	£ 2,193	£ 1,809	£ 155	£ 4,157	£ 1,863	£ 614	£ 413	£ 2,890	£ 467
Sea Lake ..	..	1,312	..	1,312	3,999	..	2,138	6,137	4,825

WORKS TAKEN OVER BY THE AUDITOR-GENERAL, AND TRANSFERRED TO COMMISSION, AS PROVIDED BY SECTION 278 OF ACT.

LODDON UNITED WATERWORKS TRUST.

FINANCIAL STATEMENT FOR YEAR ENDED 31ST DECEMBER, 1906.

RECEIPTS.			DISBURSEMENTS.		
	£	s. d.		£	s. d.
Balance at 1st January, 1906 ..	121	8 3	Interest paid to State ..	960	0 0
Receipts from Shires in which rates were not collected ..	309	16 1	Gordon Shire—Refund amount wrongly paid ..	175	9 4
Rates ..	1,047	5 10	Wages, labour, and material ..	194	12 5
Sales of water ..	102	10 0	Printing, stationery, and incidentals ..	100	4 11
			collection of rate, Gordon Shire ..	9	8 0
			Dishonoured cheque (since paid) ..	141	5 6
			Balance at bank, 31st December, 1906 ..	1581	0 2
	1,581	0 2			
LIABILITIES.			ASSETS.		
	£	s. d.		£	s. d.
Interest due to Government to 31st December, 1906 ..	3,101	17 9	Balance at bank ..	141	5 6
Accounts outstanding—			Dishonoured cheque (since paid) ..	9	8 0
Gordon Shire — Refund re Special rate ..	£77	6 7	Arrears, rates, Korong Shire ..	3	0 9
Valuations, Printing, &c. ..	20	1 6	Arrears, rates, Gordon Shire ..	399	8 3
			Balance ..	2,646	3 4
		97 8 1			
	3,199	5 10		3,199	5 10

CAPITAL ACCOUNT.

	£	s. d.
Advanced by Treasury ..	21,771	4 9
Written off by Act No. 1625 ..	1,717	0 0
Capital debit at 31st December, 1906 ..	20,054	4 9

## 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, 1908 :—

## ESTIMATED DISBURSEMENTS.

Salaries over £250 (to be apportioned to works at end of year)	..	..	..	..	£4,159
Geelong Works	..	..	..	..	3,905
Coliban Works	..	..	..	..	13,588
Other State Works—					
Goulburn-Waranga..	..	..	..	£2,000	
Loddon River	..	..	..	500	
Kow Swamp	..	..	..	2,300	
Broken River	..	..	..	400	
North-West Lakes	..	..	..	330	
				—————	5,530
Mallee Water Supply—					
Lake Lonsdale	..	..	..	£250	
Distributary Channels (Sea Lake)	..	..	..	2,815	
Long Lake	..	..	..	2,645	
Lower Wimmera	..	..	..	280	
				—————	5,990
Irrigation and Water Supply Districts	..	..	..	..	19,962
Special Works—Kerang District, clearing Pyramid Creek	..	..	..	..	1,200
General Expenditure (to be apportioned to works at end of year)	..	..	..	..	3,915
River Gaugings and Surveys	..	..	..	..	2,050
Special Surveys—Preparation of Registers of Lands	..	..	..	..	3,500
Exceptional Expenditure (Reconstruction of Weir in Campaspe District)*	..	..	..	..	6,500
				—————	£70,279

## ESTIMATED RECEIPTS.

Geelong	..	..	..	..	..	£14,200
Coliban	..	..	..	..	..	35,800
Sundry State Works	..	..	..	..	..	800
Irrigation and Water Supply Districts	..	..	..	..	..	25,500
Long Lake	..	..	..	..	..	2,300
Sea Lake	..	..	..	..	..	1,400
					—————	£80,000

\* To be debited to Capital Account.

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 Board of Land and Works or 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, 1908 :—

LOAN LIABILITY OF STATE FOR WORKS OF WATER SUPPLY AT 30TH JUNE, 1907, EXCLUSIVE OF LOAN LIABILITY IN RESPECT OF MELBOURNE WATER SUPPLY—

(a) Loan Expenditure debited as follows to—

Free Head-works .. .. .	£1,172,027	
Free Grants to Local Authorities ..	142,506	
Capital Written Off—		
Irrigation and Water Supply Trusts ..	569,318	
Waterworks Trusts .. .. .	359,819	
Local Governing Bodies .. .. .	177,715	
		£2,421,385

(b) Loan Expenditure debited as follows to—

Waterworks Trusts and Local Governing Bodies .. .. .	£1,590,968	
Works under construction by Board of Land and Works, &c. .. .. .	212,228	
Commission's Works—		
Irrigation and Water Supply Districts	265,421	
Other Works vested in Commission ..	1,738,898	
		3,807,515
		£6,228,900

Raised but unexpended	}	Loan Balance held by Treasury ..	£5,179	
		Held in Trust Fund by Treasury ..	18,961	
				24,140

			£6,253,040
Deduct Payments to Redemption Fund .. .. .			154,228
			£6,098,812

NOTE.—The above amounts include Discount and Flotation Charges.

## INTEREST PAYABLE ON LOANS—

(a) On Loan Expenditure borne entirely by the State—			
Free Head-works .. .. .	£41,138		
Free Grants to Local Authorities ..	5,323		
Capital Written Off—			
Irrigation and Water Supply Trusts ..	19,969		
Waterworks Trusts .. .. .	12,888		
Local Governing Bodies .. .. .	5,612		
			<u>£84,930</u>
(b) On Loan Expenditure debited as follows :—			
Waterworks Trusts and Local Governing Bodies .. .. .	£49,547		
Works under construction by Board of Land and Works .. .. .	7,747		
Commission's Works—			
Irrigation and Water Supply Districts	9,695		
Other Works vested in Commission ..	58,038		
			<u>125,027</u>
Total Interest charges on Loans (including Interest, £9,504, on account of Trust Funds upon which no Interest is paid by the Treasurer) .. .. .			<u>£209,957</u>

ESTIMATES OF SUMS AVAILABLE TO PROVIDE SUCH INTEREST FOR THE YEAR  
ENDING 30th JUNE, 1908—

From the Revenues of the Commission—			
Net proceeds from Revenue Producing Works—			
Geelong, Coliban, Irrigation and Water Sup- ply Districts, Long Lake and Sea Lake Waterworks Districts, and other sources..			£37,955
From the Moneys receivable from—			
Waterworks Trusts, as estimated by Water Supply Department .. .. .	£36,500		
Local Governing Bodies .. .. .	20,500		
			<u>57,000</u>
			£94,955
Deduct estimated expenditure to be incurred by Commission on Non-revenue Producing Works, Free Head-works, River Gaugings, Special Surveys, &c. .. .. .			<u>£21,754</u>
Estimated total available .. .. .			73,201
Balance to be provided by State .. .. .			136,756
			<u>£209,957</u>
Total, as above .. .. .			<u>£209,957</u>

It will thus be seen that the total expenditure on works of water supply, by the Government of the State, outside of that on works for the service of the metropolis, has been £6,228,900. This includes expenditure directly controlled by the Board of Land and Works, as well as advances by the Treasury to Trusts and other bodies authorized by law to carry out and administer water-supply schemes. There is also a further sum of £24,140 raised for works of water supply, but not yet expended. Of the total, £1,172,027 has been declared by Parliament to be for Free Head-works, on which no interest is to be demanded from the persons benefited ; £1,106,852 has been written off by the Relief Acts ; £142,506 was advanced as free grants on the constitution of the earlier formed trusts, and £154,228 has been redeemed by Trusts and other bodies. The balance of £3,653,287 is the sum advanced from loans in respect of which the State is entitled to look to the owners of the property benefited to make good the interest. It may be here remarked that the expenditure by the Commission, for maintenance and management of works under its control, was, during the year under review, £53,460. The requirements under this head during the next few years may be expected to be large, in consequence of the defective condition of many of the works when transferred.

STUART MURRAY,  
Chairman.

G. GARSON,  
Commissioner.

WM. CATTANACH,  
Commissioner.

M. NALLY,  
Acting Secretary.

Treasury Gardens, Melbourne,  
25th September, 1907.