

SECTION XXVI.

LOCAL GOVERNMENT.

§ 1. Introduction.

1. **Early History and Systems of Local Government.**—A description of the systems of Local Government and their development in the several States of the Commonwealth was published in 1919 by the Commonwealth Bureau of Census and Statistics in a separate work entitled "Local Government in Australia." The early history of Local Government in Australia was also dealt with. In addition, descriptions were given of the various systems of water supply and sewerage, fire brigades, harbour trusts and marine boards, together with the bodies controlling the same.

Limits of space preclude the incorporation of information regarding the constitution etc., of municipal and other bodies contained in the publication referred to except in cases where fresh Acts have been passed or more recent works have been carried out.

§ 2. Local Government Systems.

1. **New South Wales.**—(i) *Present System of Local Government.* The law relating to local government in New South Wales is now contained in Act No. 41 of 1919; this Act, however, does not affect the special Acts applying to the City of Sydney. Practically the whole of the State, with the exception of the Western Division, has been brought under the operation of this Act, the total area incorporated at the end of 1918 being 183,530 square miles, of which 180,658 square miles are comprised within shires and 2,872 within municipalities. The areas incorporated comprise the whole of the eastern and central divisions of the State, with the exception of Lord Howe Island, the islands in Port Jackson, and the quarantine station at Port Jackson.

The Act No. 41 of 1919, which consolidated all previous Acts, came into operation on the 1st January, 1920; it provides for the continuation of existing shires and municipalities, for the creation of new ones, and for their reconstitution by uniting, dividing, altering, or converting areas.

(ii) *Municipalities.* Including the City of Sydney there were 184 municipalities in New South Wales at the end of 1918; of these, forty were in the suburbs of Sydney and eleven in the district of Newcastle and suburbs.

(a) *Capital Value, Area, Population, and Rates Levied.* The following table shows the improved capital value, the area, population, number of buildings, and amount of rates levied in municipalities for the years 1901 and 1914 to 1918:—

NEW SOUTH WALES.—MUNICIPALITIES, IMPROVED CAPITAL VALUE, AREA, POPULATION, NUMBER OF BUILDINGS, AND TOTAL RATES LEVIED, 1901 AND 1914 TO 1918.

Year ended 31st Dec. (a)	Sydney and Suburbs.					Country.				
	Improved Capital Value.	Area.	Popu- lation.	Number of Dwel- lings.	Total Rates Levied.	Improved Capital Value.	Area.	Popu- lation.	Number of Dwel- lings.	Total Rates Levied.
	£	Acres.	No.	No.	£	£	Acres.	No.	No.	£
1901	88,116,600	91,220	(b) 487,900	94,907	277,457	36,429,600	1,732,302	371,330	73,862	127,564
1914	158,764,693	95,259	739,210	(c)	1,033,224	55,682,063	1,769,155	457,150	(c)	450,140
1915	169,778,544	95,259	748,940	(c)	1,076,885	57,949,558	1,769,155	456,000	(c)	464,511
1916	176,659,505	95,259	750,260	(c)	1,153,987	59,422,910	1,742,275	446,800	(c)	485,104
1917	183,469,822	95,259	762,480	(c)	1,124,590	62,065,080	1,742,275	453,800	(c)	516,816
1918	188,674,508	95,259	777,140	(c)	1,165,839	63,368,253	1,710,675	463,500	(c)	542,183

(a) Prior to 1908 the municipal year ended on the first Monday in February, since when the municipal year closes on 31st December. (b) Census, March, 1901. (c) Not available.

The following table gives a comparison of the unimproved and improved values for the years 1914 to 1918 inclusive :—

NEW SOUTH WALES.—MUNICIPALITIES, UNIMPROVED AND IMPROVED CAPITAL VALUES, 1914 TO 1918.

Year.	Sydney.	Suburbs.	Metropolis.	Country.	Total.
UNIMPROVED VALUE.					
	£	£	£	£	£
1914	27,395,826	31,979,353	59,375,179	22,573,671	81,948,850
1915	27,226,283	33,403,223	60,629,506	22,843,195	83,472,701
1916	31,168,904	34,719,417	65,888,321	23,378,626	89,266,947
1917	31,130,368	36,808,755	67,939,123	24,350,474	92,289,597
1918	31,880,295	38,176,261	70,056,556	24,629,668	94,686,224
IMPROVED VALUE.					
1914	75,786,580	82,978,113	158,764,693	55,682,063	214,446,756
1915	78,580,300	91,198,244	169,778,544	57,949,558	227,728,102
1916	80,264,720	96,394,785	176,659,505	59,422,910	236,082,415
1917	81,976,260	101,493,562	183,469,822	62,055,080	245,524,902
1918	82,027,200	106,647,308	188,674,508	63,368,253	252,042,761

(b) Revenue. The following table gives particulars of the revenue of municipalities for the year ending 31st December, 1918 :—

NEW SOUTH WALES.—MUNICIPALITIES, REVENUE, 1918.

Particulars.	Sydney.	Suburbs.	Country.	Total.
	£	£	£	£
General fund	} 1,263,170 (b)	789,773	517,959	1,307,732 (c)
Trading accounts .. ..		..	190,568	190,568 (c)
Special and local funds		61,536	333,984	395,520 (c)
Loan funds		79,918	65,712	145,630 (c)
Reserve and Renewals Account		3,881	33,572	37,453 (c)
Gross revenue	1,263,170 (b)	935,108	1,141,795	3,340,073
Deduct transfers (a) .. ..	..	49,615	43,972	93,587
Net revenue	1,263,170 (b)	885,493	1,097,823	3,246,486

(a) Transfers from various funds to loan funds for principal, interest, and capital expenditure. (b) Items of revenue and expenditure for the City of Sydney cannot be allocated to the different headings shown for municipalities. (c) Exclusive of Sydney.

(c) Expenditure. The following table gives particulars of expenditure of municipalities for the year ending 31st December, 1918 :—

NEW SOUTH WALES.—MUNICIPALITIES, EXPENDITURE, 1918.

Particulars.	Sydney.	Suburbs.	Country.	Total.
	£	£	£	£
General fund	} 1,246,130 (b)	809,400	518,010	1,327,410 (c)
Trading accounts .. ..		..	147,806	147,806 (c)
Special and local funds		56,027	319,734	375,761 (c)
Loan funds		45,967	45,407	91,374 (c)
Reserve and renewals account		872	12,676	13,548 (c)
Gross expenditure	1,246,130 (b)	912,266	1,043,633	3,202,029
Deduct transfers (a) .. ..	..	49,615	43,972	93,587
Net expenditure	1,246,130 (b)	862,651	999,661	3,108,442

(a) Transfers from various funds for principal and interest on loans. (b) See note (b) to preceding table. (c) See note (c) to preceding table.

(d) *Assets and Liabilities.* The financial position of the municipalities as at the 31st December, 1918, is shown by the following statement of assets and liabilities of the various funds :—

NEW SOUTH WALES.—MUNICIPALITIES, ASSETS AND LIABILITIES, 1918.

Particulars.	Sydney.	Suburbs.	Country.	Total.
<i>Assets—</i>	£	£	£	£
General fund	11,120,974 (a)	433,676	546,097	979,773 (b)
Trading accounts .. ..		..	226,400	226,400 (b)
Special and local funds		46,935	1,801,104	1,848,039 (b)
Loan funds		165,368	612,080	777,448 (b)
Reserves and renewals account		3,142	26,067	29,209 (b)
Total	11,120,974 (a)	649,121	3,211,748	14,981,843
<i>Liabilities—</i>				
General fund	10,664,813 (a)	226,130	115,038	341,168 (b)
Trading accounts .. ..		..	97,144	97,144 (b)
Special and local funds		12,429	1,602,986	1,615,415 (b)
Loan funds		809,708	587,087	1,396,795 (b)
Reserves and renewals account		3,142	26,067	29,209 (b)
Total	10,664,813 (a)	1,051,409	2,428,322	14,144,544

(a) See note (b) to last table on preceding page. (b) See note (c) to last table on preceding page.

(iii) *Shires.* The total area of the 136 shires constituted under the new system is 180,658 square miles, and the population on the 31st December, 1918, was 673,860.

The shires vary in area from 36 square miles in the case of Ku-ring-gai, immediately north of the metropolis, to 5,730 square miles in the case of Lachlan in the Condobolin district.

(a) *Valuation and Rates Levied.* The unimproved capital value of the shires in 1918 was £109,133,215, as against £107,695,315 in the preceding year. It is not possible to give the improved capital value or the assessed annual value, as the shires are not compelled to make these valuations, and in many cases do not make them. The total amount of all rates levied was £729,966.

(b) *Revenue.* The principal heads of revenue for the last five years are shown in the following table :—

NEW SOUTH WALES.—INCOME OF SHIRES, 1914 TO 1918.

Particulars.(a)	1914.	1915.	1916.	1917.	1918.
<i>General Fund—</i>	£	£	£	£	£
General rates (including interest)	608,009	612,612	633,973	672,473	710,983
Government endowment	146,077	163,211	143,259	151,446	162,188
Public works	197,754	192,319	205,277	167,696	157,737
Health administration	4,889	4,620	4,087	3,987	3,865
Public services	10,069	9,711	11,162	10,682	11,487
Shire property	13,738	12,512	12,449	14,343	14,258
Miscellaneous	6,742	5,843	7,507	7,303	7,427
<i>Special, Local, and Loan Funds</i>	57,714	65,293	75,309	84,374	93,101
Total revenue	1,044,992	1,066,121	1,093,023	1,112,304	1,161,046

(a) The receipts for Public Works, Health Administration, Public Service, etc., include Government grants during 1918 amounting to £137,717.

(c) *Expenditure.* The following statement shows the expenditure of shires during the years 1914 to 1918 inclusive :—

NEW SOUTH WALES.—EXPENDITURE OF SHIRES, 1913 TO 1918.

Particulars.	1914.	1915.	1916.	1917.	1918.
<i>General Fund—</i>	£	£	£	£	£
Administrative expenses ..	95,760	87,527	100,224	100,649	99,391
Public works ..	801,542	813,400	843,803	901,730	916,351
Health administration ..	8,064	8,049	8,513	9,149	9,292
Public services ..	14,757	17,935	15,229	18,256	19,370
Shire property ..	15,277	14,644	14,969	16,211	16,884
Miscellaneous ..	9,275	10,290	17,510	15,912	15,526
<i>Special, Local, and Loan Funds</i>	51,796	67,025	78,649	78,819	86,905
Total expenditure ..	996,471	1,018,870	1,078,897	1,140,726	1,163,719

(d) *Assets and Liabilities.* The financial position of the shires at the end of the year 1918 shewed that there was an excess of assets of £403,336. The following table gives particulars of assets and liabilities as at the 31st December, 1918 :—

NEW SOUTH WALES.—ASSETS AND LIABILITIES OF SHIRES, 1918.

Assets.		Liabilities.	
<i>General Fund—</i>	£	<i>General Fund—</i>	£
Outstanding rates ..	54,880	Temporary loans ..	73,319
Stores and materials ..	19,147	Sundry creditors ..	47,236
Bank balance ..	109,324	Due on contracts ..	2,120
Sundry debtors ..	19,965	Due to trust fund ..	227
Land ..	22,127	Other ..	900
Buildings ..	100,227	<i>Special, Local, and Loan Funds</i>	53,903
Plant and property (a) ..	163,749	Total ..	(b)177,705
Furniture ..	15,415	Excess of assets ..	403,336
Other ..	257	Total ..	581,041
<i>Special, Local, and Loan Funds</i> ..	75,950		
Total ..	581,041		

(a) Including saleyards, pounds, baths, public watering-places, ferries, wharves, etc.

(b) Includes £26,138 for outstanding loans, in addition to temporary loans.

2. *Victoria.*—(i) *Present System of Local Government.* Local government is now administered under the Act of 1915 throughout the whole of the State, with the exception of French Island, and is divided into cities, towns, boroughs, and shires. Melbourne and Geelong, having been incorporated under special statutes prior to the establishment of a general system of local government, are not subject to the provisions of the Local Government Act except in a few comparatively unimportant details.

In addition to the endowment of £50,000, the municipalities received from the Government during the financial year 1918–19 a sum of £69,321 out of the Licensing Act Fund as the equivalent for (a) fees for licenses, (b) fees for the registration of brewers and spirit merchants, and (c) fines, penalties, and forfeitures incurred under the Licensing Act 1915.

(ii) *Boroughs and Shires.—Number, Population, and Value of Ratable Property.* The following table shews the number of cities, towns, boroughs, and shires, their estimated population, the number of ratepayers and dwellings, and the value of ratable property for the years 1901 and 1915 to 1919 inclusive:—

VICTORIA.—PARTICULARS OF MUNICIPALITIES, 1901 AND 1915 TO 1919.

Year ending 30th September.	Number of Municipalities.	Estimated Population.	Number of Ratepayers (both sexes).	Estimated Number of Dwellings.	Estimated Value of Ratable Property.	
					Total.	Annual.
CITIES, TOWNS, AND BOROUGHS.						
					£	£
1901	58	627,237	153,783	130,358	67,302,423	4,765,632
1915	61	825,078	209,276	185,330	147,205,224	8,218,040
1916	52	824,170	208,759	186,740	149,235,137	8,335,553
1917	51	829,368	213,520	188,528	154,105,571	8,587,302
1918	52	844,970	219,076	193,398	158,777,843	8,912,303
1919	52	859,470	224,757	197,689	164,306,704	9,227,807

SHIRES.

					£	£
1901	150	571,683	159,128	122,645	106,839,331	5,771,865
1915	147	608,828	181,480	138,462	167,405,523	8,517,938
1916	141	617,587	184,374	141,893	169,724,979	8,606,509
1917	139	618,896	187,894	142,511	172,309,539	8,732,116
1918	139	613,380	186,551	141,313	172,558,872	8,735,794
1919	138	622,260	188,032	141,951	176,297,529	8,922,859

(iii) *Municipal Assets and Liabilities.* The assets of municipalities may be classified under three heads—(a) the municipal fund, (b) the loan fund, and (c) property; the liabilities under two heads—(a) the municipal fund, and (b) the loan fund. The following table shews the amount of municipal assets and liabilities for the years 1901 and 1914 to 1918:—

VICTORIA.—MUNICIPAL ASSETS AND LIABILITIES, 1901 AND 1914 TO 1918.

Items.	1901.	1914.	1915.	1916.	1917.	1918.
ASSETS.						
	£	£	£	£	£	£
MUNICIPAL FUND—						
Uncollected rates	187,205	120,200	147,886	146,491	138,617	132,217
Other assets	122,581	652,530	760,685	392,876	442,388	427,046
LOAN FUND—						
(a) Sinking funds—						
Amount at credit	675,310	878,322	839,951	792,445	745,784	596,550
Arrears due	1,391	1,327	1,326	834	1,732	5,054
(b) Unexpended balances	394,136	351,923	378,278	209,363	286,206	238,906
PROPERTY—						
Buildings, markets, etc.	2,507,441	3,799,038	3,863,556	3,750,947	3,848,320	3,871,232
Waterworks	197,075	180,485	175,267	177,050	252,069	268,815
Gasworks	63,732	103,435	99,107	105,124	109,215	110,319
Total	4,149,471	6,087,260	6,266,056	5,575,130	5,824,331	5,650,639

VICTORIA.—MUNICIPAL ASSETS AND LIABILITIES, 1901 AND 1914 TO 1918
—continued.

Items.	1901.	1914.	1915.	1916.	1917.	1918.
LIABILITIES.						
	£	£	£	£	£	£
MUNICIPAL FUND—						
Arrears due sinking funds ..	1,021	1,327	1,326	834	1,732	5,054
Overdue interest ..	9,413	19,771	13,776	14,456	24,425	6,920
Bank overdrafts ..	157,046	206,694	213,330	252,130	233,160	317,410
Other liabilities ..	112,297	356,884	410,576	221,183	233,189	299,947
LOAN FUNDS—						
Loans outstanding ..	4,253,304	5,617,056	5,739,084	5,869,260	6,030,343	5,764,050
Due on loan contracts ..	52,826	69,181	237,765	15,888	42,428	47,145
Due on current contracts ..	51,134	74,451	71,729	73,005	98,538	78,115
Total ..	4,637,041	6,345,364	6,687,586	6,446,756	6,663,815	6,488,641

(iv) *Revenue and Expenditure of Municipalities.* The following table shows the revenue from various sources, and the expenditure under various heads, exclusive of loan revenue and expenditure, of municipalities during the years 1901 and 1914 to 1918 :—

VICTORIA.—REVENUE AND EXPENDITURE OF MUNICIPALITIES,
1901 AND 1914 TO 1918.

Items.	1901.	1914.	1915.	1916.	1917.	1918.
REVENUE.						
	£	£	£	£	£	£
Taxation ..	722,346	1,251,649	1,277,063	1,346,439	1,395,723	1,462,640
{ Rates ..	722,346	1,251,649	1,277,063	1,346,439	1,395,723	1,462,640
{ Licenses ..	104,499	108,106	104,634	105,772	108,651	109,916
{ Dog fees ..	14,965	21,807	20,158	20,528	20,883	21,481
{ Market and weigh- bridge dues ..	49,623	70,620	63,646	63,812	67,726	71,737
Government endowments and grants ..	175,972	144,374	140,545	74,372	68,364	62,400
Contributions for streets, etc. ..	24,999	63,260	52,472	52,045	54,620	63,910
Sanitary charges ..	48,253	83,982	85,971	91,125	96,484	101,791
Rents ..	54,117	76,803	72,133	59,006	62,953	65,821
Other sources ..	89,210	354,427	388,850	441,128	487,962	566,788
Total ..	1,283,954	2,175,028	2,205,472	2,254,227	2,363,366	2,526,544

EXPENDITURE.						
Salaries, etc. ..	139,270	192,066	199,872	206,353	210,034	214,797
Sanitary work, street cleaning, etc. ..	132,542	206,271	225,919	236,766	243,774	244,984
Lighting ..	86,059	89,926	93,381	95,420	97,685	98,511
Fire brigades' contributions ..	16,769	28,361	30,277	32,086	33,939	32,786
Public works { Construction ..	244,315	315,480	274,593	238,773	200,151	232,977
Public works { Maintenance ..	345,334	814,459	811,608	847,505	897,136	1,046,474
Formation of private streets, etc. ..	23,350	70,465	62,012	68,024	63,499	75,474
Redemption of loans ..	27,745	80,576	92,738	101,461	112,020	124,797
Interest on loans ..	197,810	239,737	252,912	262,760	274,113	277,435
Charities ..	13,407	18,026	19,406	18,801	20,350	19,977
Other expenditure ..	103,403	151,613	174,945	180,018	186,310	178,043
Total ..	1,330,004	2,206,980	2,237,663	2,287,967	2,339,011	2,546,255

3. *Queensland.—(i) Present System of Local Government.* The existing scheme of local government in the State of Queensland is regulated by the provisions of the Local Authorities Act 1902, with its amendments in 1903, 1905, 1910, 1912, 1913, and 1917, the State being divided into cities and towns and shires.

(ii) *Area, Population, Number of Dwellings, Rates, Assets and Liabilities of Cities, Towns and Shires.* The following table gives particulars of the area, population, number of inhabited tenements, assets and liabilities of cities and towns, and of shires, for each year from 1914 to 1918 :—

**QUEENSLAND.—PARTICULARS OF CITIES AND TOWNS AND SHIRES
1914 TO 1918.**

Year.	Municipality.	Area.	Popu- lation.	Number of In- habited Dwel- lings.	Capital Value.	Assets.	Liabilities.		
							Government Loans.	Other.	Total.
1914	Cities and Towns Shires ..	Square Miles. 418	279,794	59,398	16,075,729	£ 1,635,685	£ 240,319	£ 1,047,739	£ 1,288,058
		669,478	411,093	87,144	44,596,193	455,476	159,359	97,454	256,813
	Total ..	669,894	690,887	146,542	60,671,922	2,091,161	399,678	1,145,193	1,544,871
1915	Cities and Towns Shires ..	400	289,441	61,140	16,401,175	£ 1,691,800	£ 249,675	£ 1,132,546	£ 1,382,221
		669,494	428,007	89,919	45,622,388	499,390	178,634	127,618	306,252
	Total ..	669,894	717,448	151,059	62,023,563	2,191,190	428,309	1,260,164	1,688,473
1916	Cities and Towns Shires ..	395	295,495	58,223	16,361,028	£ 1,741,355	£ 258,225	£ 1,170,038	£ 1,428,263
		669,499	420,377	91,297	45,919,033	552,750	190,752	133,352	324,104
	Total ..	669,894	715,872	149,520	62,280,061	2,294,105	448,977	1,303,390	1,752,367
1917	Cities and Towns Shires ..	406	320,450	62,839	16,771,990	£ 1,829,543	£ 261,385	£ 1,217,593	£ 1,478,978
		669,488	409,845	88,437	45,276,512	567,438	181,862	124,432	306,294
	Total ..	669,894	730,295	151,276	62,048,502	2,396,981	443,247	1,342,025	1,785,272
1918	Cities and Towns Shires ..	507	330,272	65,588	17,436,371	£ 1,988,957	£ 270,820	£ 1,328,205	£ 1,599,025
		669,387	411,278	88,384	45,553,989	594,823	173,024	179,795	352,819
	Total ..	669,894	741,550	153,972	62,990,360	2,583,785	443,844	1,508,000	1,951,844

(iii) *Receipts and Expenditure of Cities, Towns, and Shires.* The following table shows the receipts and expenditure (including loan moneys) of cities and towns and of shires, as well as the total receipts and expenditure of all municipalities, for each year from 1914 to 1918 :—

**QUEENSLAND.—REVENUE AND EXPENDITURE OF CITIES AND TOWNS
AND SHIRES, 1914 TO 1918.**

Year.	Municipality.	Receipts.				Expenditure.				
		From Govern- ment.	From Rates.	From other Sources.	Total.	On Public Works.	Loan Redemp- tion.	Office Ex- penses and Salaries.	Other Expenses. (a)	Total.
1914	Cities and Towns Shires ..	£ 31,725	£ 421,329	£ 92,203	£ 545,257	£ 495,067	£ 21,210	£ 38,766	£ 89,707	£ 644,750
		41,413	394,373	64,760	500,546	387,021	16,496	64,789	48,877	518,183
	Total ..	73,138	815,702	156,963	1,045,803	882,088	37,706	103,555	138,584	1,162,933
1915	Cities and Towns Shires ..	27,439	433,139	97,245	557,823	493,900	18,635	39,553	87,623	639,711
		36,736	415,371	62,665	514,772	390,701	15,088	67,485	60,706	533,980
	Total ..	64,175	848,510	159,910	1,072,595	884,601	33,723	107,038	148,329	1,173,691
1916	Cities and Towns Shires ..	29,541	460,252	86,139	575,932	478,962	20,221	50,388	87,970	637,541
		23,680	443,843	63,361	530,884	366,007	13,587	82,240	71,902	533,736
	Total ..	53,221	904,095	149,500	1,106,816	844,969	33,808	132,628	159,872	1,171,277
1917	Cities and Towns Shires ..	30,012	495,510	96,959	622,481	475,689	24,062	56,179	92,298	648,228
		16,138	485,375	71,175	572,688	395,687	12,250	86,112	61,215	555,264
	Total ..	46,150	980,885	168,134	1,195,169	871,376	36,312	142,291	153,513	1,203,492
1918	Cities and Towns Shires ..	16,937	535,124	103,477	655,538	455,824	21,916	61,731	141,366	680,837
		23,448	506,447	69,147	599,042	502,390	13,864	89,387	61,252	666,893
	Total ..	40,385	1,041,571	172,624	1,254,580	958,214	35,780	151,118	202,618	1,347,730

(a) Including interest on loans.

4. South Australia.—(i) *Present System of Local Government.* The more settled portion is under the jurisdiction of municipal corporations under the Act of 1890 and its amendments, and of district councils under the Act of 1914, as amended in 1918. Subsidies of 25 per cent. on current rates collected are paid to corporations and to district councils. Votes are annually provided by Parliament of about £180,000, for payment to corporations and district councils as a contribution towards the cost of main roads throughout the State and other roads in newly-settled areas.

(ii) *Finances of Corporations and District Councils.* The subjoined tables show the amounts of assessments and the revenue and expenditure of corporations and of district councils for the financial years 1901 and 1914 to 1918; the figures given are exclusive of the Main Roads Funds, particulars as to which may be found in the section of this book on "Roads and Bridges."

SOUTH AUSTRALIA.—ASSESSMENT, REVENUE AND EXPENDITURE OF LOCAL AUTHORITIES, 1901 AND 1914 TO 1918 (EXCLUSIVE OF MAIN ROADS FUNDS).

Year. (a)	Amount of Assessment (Annual Value).	Revenue.				Expenditure.	
		From Rates.	From Subsidies.	Other Sources.	Total.	On Public Works.	Total.
CORPORATIONS.							
	£	£	£	£	£	£	£
1901 ..	1,177,850	87,289	9,733	49,342	146,364	55,533	146,091
1914 ..	1,896,273	168,041	23,821	63,026	254,888	176,952	266,202
1915 ..	1,918,256	173,941	22,669	66,887	263,497	169,926	288,629
1916 ..	2,006,802	176,870	23,448	67,136	267,454	160,516	270,929
1917 ..	2,037,649	189,594	24,084	77,517	291,195	199,532	289,235
1918 ..	2,103,195	194,497	26,821	76,589	297,907	206,122	296,590
DISTRICT COUNCILS.							
1901 ..	1,412,507	63,321	15,225	51,919	130,465	65,406	128,499
1914 ..	2,435,655	132,277	38,397	32,878	203,552	145,282	196,408
1915 ..	2,601,298	128,859	34,999	27,574	191,432	152,951	204,358
1916 ..	2,662,066	148,895	34,487	27,135	210,517	136,380	189,582
1917 ..	2,704,374	155,677	36,674	30,143	222,494	161,886	205,079
1918 ..	2,767,309	162,718	38,298	32,091	233,107	194,734	250,610

(a) Up to and including the year 1903, the financial year for corporations ended on the 31st December, but after that date ends on the 30th November. The financial year for district councils ends on the 30th June.

5. Western Australia.—(i) *Present System of Local Government.* In this State there are three forms of local authorities, namely—(i) Municipalities, (ii) Road Districts, and (iii) Local Boards of Health, the two former covering the whole of the State.

(ii) *Area, Population, etc., of Municipalities.* Returns regarding the area, population, and valuation of municipalities are defective. They are shown in the table hereunder :—

WESTERN AUSTRALIA.—NUMBER, AREA, POPULATION, NUMBER OF DWELLINGS, AND VALUATION OF MUNICIPALITIES, 1901 AND 1914 TO 1918.

Year ended the 31st October.	Number of Municipalities.	Area.	Population.	Dwellings.			Amount Payable in respect of Rates.
				Occupied.	Unoccupied.	Total.	
	No.	Acres.	No.	No.	No.	No.	£
1901 ..	42	71,721	(a) 96,807 (b)	(b) 20,989	(b) 967	(b) 21,956	(c)
1914 ..	33	67,290	158,664	32,864	1,033	33,897	163,597
1915 ..	31	67,290	155,334	(c)	(c)	33,542	172,720
1916 ..	30	60,160	152,671	(c)	(c)	33,763	168,148
1917 ..	28	59,560	150,562	(c)	(c)	33,733	171,239
1918 ..	25	58,070	148,431	33,550	239	33,789	173,828

(a) Census figures, 1901.

(b) Returns for thirty-nine municipalities only.

(c) Not available.

Complete particulars of improved or unimproved capital values are not available. In the year 1914 the capital value of ratable property in municipalities was £24,382,980; in 1915, £24,921,422; in 1916, £26,817,864; in 1917, £24,933,426; and in 1918, £26,077,875.

(iii) *Revenue and Expenditure of Municipalities.* The following table gives particulars as to the revenue and expenditure of municipalities during the years 1901 and 1914 to 1918 :—

WESTERN AUSTRALIA.—REVENUE AND EXPENDITURE OF MUNICIPALITIES, 1901 AND 1914 TO 1918.

Year ended the 31st October—	Revenue.				Expenditure.			
	From Rates.	From Govt. Grants.	From other Sources.	Total.	Works and Improvements.	Disbursements in respect of Loans.	Other Expenses.	Total.
	£	£	£	£	£	£	£	£
1901 ..	78,022	66,860	82,246	227,128	111,241	23,809	79,365	214,415
1914 ..	153,686	13,142	479,797	646,625	223,098	115,924	304,823	643,845
1915 ..	170,675	10,309	465,810	646,794	190,739	129,103	382,784	702,626
1916 ..	166,617	9,462	437,258	613,337	120,411	127,559	370,390	618,360
1917 ..	167,997	7,813	375,541	551,351	73,991	133,954	334,002	541,947
1918 ..	171,315	1,870	374,992	548,177	75,086	135,617	327,784	538,487

(iv) *Assets and Liabilities of Municipalities.* The following table gives particulars respecting the assets and liabilities of municipalities at the end of each financial year 1901 and 1914 to 1918 :—

WESTERN AUSTRALIA.—ASSETS AND LIABILITIES OF MUNICIPALITIES, 1901 AND 1914 TO 1918.

Year ended the 31st October—	Assets.					Liabilities.		
	Balance in Hand. (a)	Value of Property owned by Municipalities.	Accrued Sinking Funds for Redemption of Loans.	Other Assets.	Total.	Outstanding Debts and Bonds.	Other Liabilities.	Total.
	£	£	£	£	£	£	£	£
1901 ..	37,250	214,984	42,311	13,432	307,986	321,000	19,762	340,762
1914 ..	78,790	1,221,891	283,855	90,768	1,675,304	1,606,966	76,647	1,683,613
1915 ..	16,732	1,280,912	268,911	103,409	1,669,964	1,690,074	74,392	1,764,466
1916 ..	17,233	1,438,246	286,485	86,158	1,828,122	1,813,426	68,897	1,882,323
1917 ..	27,259	1,445,877	298,421	85,039	1,856,596	1,789,168	67,754	1,856,922
1918 ..	35,016	1,440,479	335,459	96,318	1,907,272	1,753,316	71,740	1,825,056

(a) Including bank balance, cash in hand, and fixed deposit.

(v) *Road Districts.* Returns regarding Road Districts are as under :—

WESTERN AUSTRALIA.—REVENUE AND EXPENDITURE, ASSETS AND LIABILITIES, OF ROAD DISTRICTS, 1901 AND 1914 TO 1918.

Year ended 30th June.	No. of Districts.	Area.	Estimated Annual Value.	Revenue.				Expenditure.				Assets.	Liabilities.
				Rates.	From Government.	Other.	Total.	Admin-istration.	Works.	Other.	Total.		
	No.	Acres.	£	£	£	£	£	£	£	£	£	£	£
1901 (a)	93	975,808	(b)	8,293	36,011	6,580	50,884	6,833	45,303	3,935	56,071	18,339	2,441
1914 ..	112	974,476	1,756,279	93,700	63,668	46,031	203,399	24,120	139,859	23,821	187,800	207,415	66,693
1915 ..	112	974,476	1,756,314	88,569	27,753	47,571	163,893	26,025	139,542	27,466	193,033	206,806	98,285
1916 ..	113	975,827	1,802,847	104,345	24,397	38,820	167,562	24,903	114,343	27,094	166,340	226,335	114,841
1917 ..	117	975,828	1,793,463	113,686	30,226	55,383	199,295	26,335	126,316	36,526	189,177	256,245	137,994
1918 ..	116	975,830.	(b)	116,245	32,594	46,187	195,026	27,969	139,514	38,682	206,165	265,033	149,127

(a) Year ended 31st December.

(b) Not available.

(vi) *Boards of Health.* On the 31st October, 1918, there were twenty-six Local Boards of Health within municipalities, and on the 30th June, 1918, sixty-one under control of Road Boards, and twenty-eight extra-municipal Boards. In and after 1911, the financial year of Municipal Local Health Boards ended 31st October, and that of extra-municipal Boards, 30th June.

The following table shows particulars of the receipts and expenditure of the various Boards—both municipal and extra-municipal—during the years 1901 and 1914 to 1918 :—

WESTERN AUSTRALIA.—RECEIPTS AND EXPENDITURE OF LOCAL HEALTH BOARDS, 1901 AND 1914 TO 1918.

Year ended the 31st October—	Revenue.			Expenditure.		
	From Public Health Rate.	From other Sources.	Total.	On Sanitary Services.	Other Expenses.	Total.
	£	£	£	£	£	£
1901	15,251	17,456	32,707	18,789	15,555	34,344
1914 (a) ..	(f) 53,472	(g) 61,800	115,272	62,831	47,484	110,315
1915 (b) ..	(f) 42,904	(g) 61,393	104,297	70,963	36,890	107,853
1916 (c) ..	(f) 43,942	(g) 59,441	103,383	68,749	29,971	98,720
1917 (d) ..	(f) 42,987	(g) 56,488	99,455	67,830	31,056	98,886
1918 (e) ..	(f) 41,358	(g) 56,383	97,741	66,652	32,588	99,240

(a) Exclusive of 12 inactive boards. (b) Exclusive of 13 inactive boards. (c) Exclusive of 8 inactive boards. (d) Exclusive of 10 inactive boards. (e) Exclusive of 8 inactive boards. (f) Including sanitary rates. (g) Including sanitary fees and charges.

6. *Tasmania.*—(i) *Systems of Local Government.* The whole State, with the exception of the cities of Hobart and Launceston, which were incorporated under separate Acts, was divided by the Local Government Act of 1906 into municipal districts. Amendments to that Act were made in 1908 and 1911.

(ii) *Annual Value, Revenue, and Expenditure of Municipalities.* The following table shows the annual value, total receipts, and expenditure of municipalities for the years 1914 to 1918 inclusive :—

TASMANIA.—ANNUAL VALUE, REVENUE AND EXPENDITURE OF MUNICIPALITIES, 1914 TO 1918.

Year.	Number of Municipalities.	Annual Value of Ratable Property.	Revenue.				Expenditure. (b)
			From Rates.	From Govt.	From other Sources. (a)	Total.	
		£	£	£	£	£	£
1914 ..	51	1,776,099	185,954	14,416	169,825	370,195	349,186
1915 ..	50	1,654,654	190,491	14,651	172,006	377,148	394,374
1916 ..	50	1,717,878	188,939	12,753	216,880	418,572	510,977
1917 ..	50	1,769,443	202,119	18,527	249,756	470,402	487,615
1918 ..	50	1,787,234	216,232	22,266	318,511	557,009	558,939

(a) Including sums derived from loans. (b) Including repayments of loans.

According to the latest estimate made by the Commissioner of Taxes the capital value of ratable property in 1918 was £36,232,654.

(iii) *Total Revenue and Expenditure of Local Bodies.* Particulars as to Road Boards and Road Trusts are given in the chapter of this book on "Roads and Bridges." In addition to the local authorities already mentioned, seven Marine Boards and three Harbour Trusts have been established at ports in Tasmania for the purposes of constructing and maintaining wharves and jetties and of controlling all matters relating to shipping in the respective ports. Of the Water Trusts, seven maintain

independent existence, and the remaining twenty-five are incorporated in the Municipalities. There are twenty-four independent Cemetery Trusts. The subjoined statement shews the total revenue and expenditure for all local bodies, exclusive of all amounts contributed by the general Government, during each year from 1914 to 1918, inclusive:—

TASMANIA.—REVENUE AND EXPENDITURE OF ALL LOCAL BODIES, EXCLUSIVE OF AMOUNTS CONTRIBUTED BY THE GENERAL GOVERNMENT, 1914 TO 1918.

Particulars.	1914.	1915.	1916.	1917.	1918.
(a) REVENUE.					
	£	£	£	£	£
Marine Boards and Lighthouses(c)	77,732	93,488	(c)67,579	100,364	79,633
Municipalities	355,779	362,497	405,819	451,875	534,743
Cemetery Trusts	1,391	1,320	1,275	1,143	1,507
Water Trusts	2,508	2,364	2,365	2,865	2,669
Total	437,410	459,669	477,038	556,247	618,552
(b) EXPENDITURE.					
	£	£	£	£	£
Marine Boards and Lighthouses (c)	103,202	144,805	87,960	99,308	89,722
Municipalities	334,770	379,723	498,224	469,088	536,673
Cemetery Trusts	1,032	1,499	1,425	1,379	1,593
Water Trusts	2,228	1,966	1,813	1,753	2,246
Total	441,232	527,993	589,422	571,528	630,234

(a) Exclusive of amounts contributed by the general Government. (b) Exclusive of expenditure from Government contributions. (c) In 1915 the chief lighthouses were taken over by the Commonwealth.

§ 3. Water Supply, Sewerage and Drainage.

1. New South Wales.—(i) *Metropolitan Waterworks.* The following tables give particulars as to (a) the revenue, expenditure, and capital cost of the metropolitan waterworks, and (b) the number of gallons of water, number of houses and population supplied in 1901 and from 1915 to 1919:—

SYDNEY WATERWORKS.—REVENUE, EXPENDITURE, AND CAPITAL COST, 1901 AND 1915 TO 1919.

Year ended 30th June.	Revenue. (a)	Working Expenses.	Capital Cost, exclusive of Items on which Interest is not charged.	Percentage of Working Expenses to Revenue.	Percentage of Revenue to Capital Cost.	Interest Payable on Capital Cost.	Net Profit after Paying Working Expenses and Interest.
	£	£	£	%	%	£	£
1901 ..	203,348	49,270	4,300,552	24.22	4.72	152,333	1,745
1915 ..	441,966	159,687	6,644,289	36.13	6.65	235,949	46,330
1916 ..	470,744	165,210	7,192,472	35.09	6.54	261,335	44,199
1917 ..	468,537	177,977	7,769,200	37.98	6.03	306,198	-15,638b
1918 ..	523,979	195,448	8,472,700	37.30	6.18	343,716	-15,185b
1919 ..	627,288	219,322	8,900,391	34.96	7.04	377,885	30,079

(a) Rate increased from 6½d. to 7½d. in the £ of the assessed annual value from 1st July, 1918. (b) — Signifies loss.

SYDNEY WATERWORKS.—NUMBER OF GALLONS, HOUSES, AND POPULATION SUPPLIED, 1901 AND 1915 TO 1919.

Year ended 30th June.	Number of Houses Supplied.	Estimated Population Supplied.	Average Daily Supply.	Total Supply for the Year.	Average Daily Supply.		Mains Laid.
					Per House.	Per Head of Estimated Population.	
	No.	No.	1,000 Gallons.	1,000 Gallons.	Gallons.	Gallons.	Miles.
1901 ..	98,298	491,000	21,583	7,877,677	219	43.95	40
1915 ..	175,758	878,790	37,548	13,705,061	210	42.72	183
1916 ..	183,598	917,990	39,380	14,374,000	214	42.89	183
1917 ..	193,643	968,215	39,637	14,467,000	204	40.94	104
1918 ..	196,685	993,425	41,358	15,096,030	206	41.63	98
1919 ..	204,308	1,021,540	45,557	16,628,342	223	44.59	106

(ii) *Metropolitan Sewerage Systems.* The following tables shew (a) the revenue, expenditure, and capital cost of the metropolitan sewerage systems, and (b) the number of houses drained, the population served, and the length of sewers in 1901 and from 1915 to 1919:—

SYDNEY SEWERAGE SYSTEMS.—REVENUE, EXPENDITURE, AND CAPITAL COST, 1901 AND 1915 TO 1919.

Year ended the 30th June.	Revenue.	Working Expenses.	Capital Cost, exclusive of Items on which Interest is not charged.	Percentage of Expenditure to Revenue.	Percentage of Revenue on Capital Cost.	Interest Payable on Capital Cost.	Profit or Loss after Payment of Working Expenses and Interest.
	£	£	£	%	%	£	£
1901 ..	125,290	45,395	3,066,147	36.23	4.05	106,475	-26,580
1915 ..	344,489	111,809	5,775,094	32.45	5.96	205,928	26,752
1916 ..	363,799	120,244	6,114,072	33.05	5.95	224,551	19,004
1917 ..	387,333	138,416	6,722,313	35.73	5.76	269,723	-20,806
1918 ..	429,669	147,444	6,870,927	34.31	6.25	263,661	-1,436
1919 ..	497,406	151,951	6,963,573	30.54	7.14	291,345	54,108

NOTE.—The minus sign (—) represents a loss.

SYDNEY SEWERAGE SYSTEMS.—NUMBER OF HOUSES DRAINED, POPULATION SERVED, AND LENGTH OF SEWERS, 1901 AND 1915 TO 1919.

Year ended the 30th June.	Number of Houses Drained.	Estimated Population Served.	Total Length of Sewers.	Total Length of Storm-water Drains.	Ventilating Shafts Erected.	Sewers Ventilated.
	No.	No.	Miles.	Miles.	Feet.	Miles.
1901 ..	75,416	370,000	515.62	25.91	194,667	450
1915 ..	124,759	623,795	972.14	53.65	427,552	915
1916 ..	129,650	648,250	1,022.15	54.08	443,134	953
1917 ..	136,409	682,045	1,085.45	59.55	475,474	1,030
1918 ..	139,777	698,885	1,113.34	60.07	479,464	1,039
1919 ..	141,798	708,990	1,131.72	60.11	484,798	1,052

(iii) *The Hunter District Water Supply and Sewerage. (a) Water Supply.* The number of service reservoirs has been increased to seventeen, with a capacity of 14,849,260 gallons. Of these twelve are supplied by gravitation from the summit reservoir, four by repumping, and one by direct pumping. The total length of water mains has risen to 438 miles.

The capital debt of the Board to the Government at 30th June, 1919, in respect of water supply was £878,599.

In the subjoined table particulars are given as to the revenue and expenditure, and also as to the number of houses and population supplied in 1901 and 1915 to 1919 :—

PARTICULARS OF HUNTER DISTRICT WATER SUPPLY, 1901 AND 1915 TO 1919.

Year ended 30th June.	Revenue.	Working Expenses (including Interest).	Houses Supplied.	Estimated Population Served.	Supply.	
					Daily Average.	Total.
	£	£	No.	No.	1,000 gallons.	1,000 gallons.
1901	27,405	30,948	9,086	45,400	1,005	366,889
1915	68,611	55,382	20,709	103,545	2,859	1,043,546
1916	79,507	58,436	22,056	110,280	3,507	1,283,754
1917	78,040	65,338	22,604	113,377	3,435	1,253,897
1918	80,607	73,949	23,257	116,285	3,442	1,256,628
1919	91,204	76,297 ^a	24,079	120,395	4,065	1,483,806

^a Including £20,805, interest on capital debt, and £10,195, instalment to sinking fund for reconstruction of renewable works.

The average daily consumption of water for all purposes per inhabitant was 33.76 gallons during the year 1919, as against 29.60 gallons during the previous year.

(b) *Sewerage Works.* Considerable progress has been made by the Department of Public Works with the construction of the sewerage works for Newcastle and suburbs. Up to the 30th June, 1919, about 123 miles of sewers, connecting with 10,365 separate properties, were under the control of the Board. For the financial year 1918-19 the revenue was £26,721 and the expenditure £34,990, the latter amount including a £4,823 instalment to the sinking fund for the reconstruction of renewable works. The capital debt of the Board to the Government at 30th June, 1919, in respect of sewerage was £503,572.

(iv) *Water Supply and Sewerage in Country Towns.* The Country Towns Water Supply and Sewerage Act of 1880 and its amending Acts which, *inter alia*, extended its operation to shires, has been repealed by the Local Government Act 1919, which in Part XIV. incorporates similar provisions to those contained in the repealed Acts, and amplifies those provisions to include electricity works as well as water supply, sewerage, and drainage works. The operation of this part of the Act was postponed until 1st September, 1919, and until that date the Country Towns Acts remained in operation.

(a) *Waterworks.* Up to the 30th June, 1918, 58 country municipalities had availed themselves of the privileges of the Acts as regards waterworks, all of which at that date had been completed and handed over by the Government. The capital debt of these works was £1,336,820, and the total of the sums payable annually for various periods ranging up to 100 years was £51,457, including interest ranging from 3½ per cent. to 4 per cent., the first repayments having become due at various dates, starting from the

end of the year 1893. In the calculation of these repayments the interest during construction on the sums actually expended has been added, and any payments by the councils, as well as sums remitted under the authority of the Act, have been deducted. It has recently been found necessary to increase the rate of interest from 4 to 5 per cent. Other schemes of water supply and extensions of existing works are in course of construction. A few other municipalities have constructed works out of their own resources, and the water supply of Broken Hill with a capital debt of £473,869 was constructed under a special Act and administered by the Minister for Public Works. The Junee Water Supply has been placed under special administration and the Grafton Water Supply serving both Grafton and South Grafton is vested in a board composed of three members of each council.

(b) *Sewerage Works.* Only eighteen municipal councils have taken advantage of the Act providing for the construction of sewerage and storm water drainage works in country towns. On the 30th June, 1919, the capital debt of these systems was £389,878, the amount payable annually to the Government being £16,434. Other sewerage systems, as well as extensions to existing systems, are in course of construction.

2. *Victoria.*—(i) *The Melbourne and Metropolitan Board of Works.* No alteration has been made in the constitution of the Board, but, owing to the fact that three towns have been raised to the status of cities, the sewerage area over which the Board exercises control now consists of eighteen cities, two towns, one shire, and parts of five other municipalities, or twenty-six municipalities in all, comprising a total area of 90,821 acres. Control for water supply purposes is also exercised by consent of the Governor-in-Council over 3,929 acres in four municipalities. The Board further supplies water to the metropolitan farm at Werribee, and the Outfall Sewer area. Various other shires also arrange for bulk supplies of water. The total estimated population served on the 31st December, 1919, was 771,871. The liability on Government loans on the 30th June, 1919, was £1,559,786, and for loans raised by the Board was £10,979,760. The Board is still empowered to borrow £600,388 before reaching the limit of its borrowing powers.

(a) *Total Cost of Water Supply and Sewerage.* The subjoined table shews the total cost of construction and maintenance of water supply and sewerage from 1853 to 1919 :—

MELBOURNE AND METROPOLITAN BOARD OF WORKS.—TOTAL COST OF CONSTRUCTION AND MAINTENANCE OF WATER SUPPLY AND SEWERAGE, 1853 TO 1919.

Period ending 30th June.	Water Supply.			Sewerage.			Grand Total.
	Capital Cost.	Working Expenses.	Interest.	Capital Cost.	Working Expenses.	Interest.	
	£	£	£	£	£	£	£
1853 to 1891	3,378,246	420,833	1,021,676	..	..	..	4,820,755
1891 to 1901	336,957	367,506	1,021,181	3,307,764	114,268	919,017	6,066,693
1901 to 1911	299,303	384,871	1,026,362	2,981,666	461,706	2,333,348	7,487,256
1911 to 1914	600,222	159,903	354,665	614,401	199,214	902,310	2,830,715
1914 to 1915	129,007	60,547	130,268	245,548	72,030	316,788	954,188
1915 to 1916	91,893	54,580	134,915	166,201	70,783	321,640	840,012
1916 to 1917	31,979	54,566	137,544	108,583	72,658	329,176	734,506
1917 to 1918	21,214	60,714	139,458	155,911	85,327	345,521	808,145
1918 to 1919	32,245	59,394	153,573	138,884	87,954	372,235	844,285
Total ..	4,921,066	1,622,914	4,119,642	7,718,958	1,163,940	5,840,035	25,386,555

(b) Revenue and Expenditure of Melbourne and Metropolitan Board of Works. The following table shows the actual receipts and expenditure, and also the loan receipts and expenditure of the Board during 1901-2 and 1914-15 to 1918-19:—

MELBOURNE AND METROPOLITAN BOARD OF WORKS.—REVENUE AND EXPENDITURE DURING EACH YEAR, 1901-2 AND 1914-15 TO 1918-19.

Particulars.	1901-2.	1914-15.	1915-16.	1916-17.	1917-18.	1918-19.
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ORDINARY RECEIPTS.

	£	£	£	£	£	£
Water supply	171,956	356,155	344,053	333,747	335,674	353,466
Sewerage, etc.	124,696	344,768	311,408	293,250	308,904	364,025
Live stock—Metropolitan farm	19,929	87,135	103,669	86,225	58,124	57,201
Interest { Water supply .. .. .	.. .. .	1,578	1,718	1,593	1,053	826
{ Sewerage	17,448	8,296	8,694	11,131	8,514	7,525
Sinking Fund proceeds .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	30,275	.. .. .
Total	334,029	797,930	769,542	725,946	742,544	783,043

ORDINARY EXPENDITURE.

General management	33,621	45,032	45,776	49,409	50,094	49,700
Live stock, etc.—Metropolitan farm	16,702	49,704	87,325	67,206	85,195	63,595
Maintenance { Water supply	22,205	41,521	41,457	38,452	39,024	39,580
{ Sewerage	24,396	53,465	54,748	45,208	61,332	56,221
Interest { Water supply	102,670	131,845	136,633	139,138	140,906	145,458
{ Sewerage	192,952	325,167	330,568	340,589	354,211	361,898
War expenditure: Safeguarding works, etc. .. .. .	.. .. .	.. .. .	1,000	7,431	6,458	3,535
Patriotic and Belgian Relief Funds .. .. .	.. .. .	2,000	10,721	.. .. .	.. .. .	713
Victorian Red Cross .. .. .	.. .. .	.. .. .	30,000	100	.. .. .	.. .. .
Sinking fund investment .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	30,000
Total	392,546	648,734	738,228	687,533	737,220	750,700

LOAN RECEIPTS.

Water supply	1,636	10,138	18,500	8,062	3,482	2,720
Sewerage	88,425	42,950	53,326	44,926	42,673	47,339
Proceeds of loans	396,238	223,500	190,512	567,878	77,025	176,125
Miscellaneous .. .. .	.. .. .	10,735	7,947	2,648	4,431	4,657
Total	486,299	287,323	270,285	623,514	127,611	231,041

LOAN EXPENDITURE.

Water supply construction	17,058	140,102	109,440	39,764	23,569	35,237
Sewerage construction	410,760	288,682	235,458	154,743	182,431	191,012
Expenses in floating and redemption of loans	5,200	114	51,559	379,362	26,429	27,151
Miscellaneous	(a) 4,293	25,882	30,311	7,156	1,273	9,263
Total	428,725	454,680	426,768	581,025	233,702	262,663

(a) Credit by excess of stock distribution (£7,020) over purchases (£2,727).

(ii) *Melbourne Metropolitan Water Supply. (a) Development of System.* The following statement shows the development which has taken place in the water supply system of Melbourne during the 62 years since its inception:—

MELBOURNE WATER SUPPLY SYSTEM, 1857 TO 1919.

Year.	Estimated Population Supplied. (a)	Capital cost. (b)	Charge per 1,000 Gallons.	Rate in £.	Reticulation, Mains, etc., Mileage. (b)	Daily average of annual consumption of water.(a)
1857 (Dec. 31)	95,442	£ 748,974	10/- and 6/-	1/-	104	3,250,000
1919 (June 30)	771,871	4,921,066	1/-	6d.	1,708½	42,455,225

(a) 31st December. (b) 30th June.

On the O'Shanassy scheme up to 30th June, 1919, the sum of £459,901 has been expended.

(b) *Quantity of Water, Number of Houses, and Population Supplied.* The following table gives various particulars for the years 1901 and 1915 to 1919, showing the increase in the supply of water in Melbourne and suburbs:—

MELBOURNE WATERWORKS.—NUMBER OF HOUSES, POPULATION, AND WATER SUPPLIED, 1901 AND 1915 TO 1919.

Year. Ended 30th June.	Number of Houses Served.	Estimated Population Supplied.	Average Daily Supply.	Total Supply for the Year ended 30th June.	Average Daily Supply.		Rate Levied.	Assessments of Houses Served by Metropolitan Water Supply.
					Per House.	Per Head of Estimated Population.		
	No.	No.	,000 Gallons.	,000 Gallons.	Gallons.	Gallons.		£
1901 ..	104,548	491,780	28,732	10,487,007	274.8	58.4	6d. in the £	3,479,721
1915 ..	150,825	662,500	36,989	13,501,051	245.2	55.8	7d. in the £	6,577,338
1916 ..	155,208	693,978	37,069	13,567,184	238.8	53.4	} 6d. in the £	6,005,842
1917 ..	158,086	720,577	37,653	13,743,439	238.2	52.3		7,113,740
1918 ..	161,743	733,496	39,133	14,283,490	241.9	53.3		7,270,091
1919 ..	165,046	749,709	41,222	15,045,938	249.8	55.0		7,507,306

(c) *Total Cost of Construction, Revenue, Expenditure and Net Profits, 1853 to 1919.* The following table shows the total cost of construction, the revenue, expenditure, and net profits for various periods up to 30th June, 1919:—

MELBOURNE WATERWORKS.—CONSTRUCTION COST, REVENUE, EXPENDITURE, AND NET PROFITS, 1853 TO 1919.

Period.	Capital Cost. (a)	Revenue. (b)	Working Expenses.(c)	Percentage of Working Expenses to Revenue.	Interest. (d)	Surplus.
	£	£	£	%	£	£
Total to 1890-1 ..	3,378,246	3,150,055	420,833	..	1,021,676	1,707,546
1891-2 to 1900-1	336,957	1,686,025	367,506	21.80	1,021,181	297,338
1901-2 to 1910-11(e)	299,303	2,054,355	384,871	18.73	1,026,362	643,122
1911-12 to 1913-14	600,222	897,577	159,903	17.81	354,665	383,009
1914-15 ..	129,007	350,549	60,547	17.27	130,268	159,734
1915-16 ..	91,893	(f) 334,181	(g) 54,580	16.33	134,915	144,686
1916-17 ..	31,979	319,614	(h) 54,566	17.07	137,544	127,504
1917-18 ..	21,214	331,955	(i) 60,714	18.29	139,458	131,783
1918-19 ..	32,245	372,180	(j) 59,394	15.96	153,573	159,213
Total ..	4,921,066	9,496,491	1,622,914	..	4,119,642	3,753,935

(a) Works commenced in 1853. (b) Revenue commenced in 1854. (c) Returns for expenditure commenced in 1859. (d) First interest paid in 1856. (e) 1906-07. Water rates increased from 6d. to 7d. in the £. (f) Rate reduced from 7d. to 6d. in the £. (g) Not including renewals (£7,349) and special War expenditure (£7,725). (h) Not including renewals (£4,545) and special War expenditure (£4,689). (i) Not including renewals (£3,893) and special War expenditure (£3,632). (j) Not including renewals (£4,183) and special War expenditure (£1,888).

(iii) *Melbourne Sewerage.* The movable pan system has been displaced by the water carriage system throughout the greater portion of the metropolis, and in other parts the work of reticulation is now proceeding.

(a) *Metropolitan Sewage Farm.* The farm originally contained 8,847 acres, situated on the western side of the Werribee River. Since 1911, 2,842 acres have been purchased, making the total area of the farm 11,689 acres at 30th June, 1919, its total cost to that date being £570,040. About 35,518,498 gallons of sewage had to be disposed of every 24 hours during the year 1918-19 in irrigating the fields. During the financial year 1918-19, 10,699 sheep were sold, the profit for the year being £1,410. Cattle to the number of 2,564 were sold, the profit for the year on cattle being £22,665.

(b) *Number of Houses Connected, Capital Cost, Revenue and Expenditure.* The following table gives particulars as to the number of houses connected to the sewerage system, the total capital cost, and the receipts and disbursements during 1901-2 and 1914-15 to 1918-19:—

MELBOURNE SEWERAGE WORKS.—TENEMENTS CONNECTED, CAPITAL COST, REVENUE, MAINTENANCE, AND WORKING EXPENSES, 1901-2 AND 1914-15 TO 1918-19.

Year.	Number of Houses Connected.	Capital Cost.	Revenue.			Maintenance, Repairs and Renewals.
			From Rates.	From other Sources.	Total.	
	No.	£	£	£	£	£
1901-2 ..	47,172	3,610,225	126,725	10,968	137,693	24,336
1914-15 ..	138,108	7,149,379	342,312	40,146	382,458	54,558
1915-16 ..	143,737	7,135,580	307,625 (a)	50,487	358,112	52,402 (b)
1916-17 ..	148,395	7,424,163	289,512 (c)	25,586	315,098	53,099 (d)
1917-18 ..	151,622	7,580,074	298,053 (e)	29,346	327,399	65,534
1918-19 ..	155,238	7,718,958	341,053 (f)	38,847	379,900	69,777 (g)

(a) Rate reduced from 1s. 1d. to 11d. in the £. (b) Not including renewals (£3,424) and special War expenditure (£2,925). (c) Rate reduced from 11d. to 10d. in the £. (d) Not including renewals (£3,790) and special War expenditure (£2,635). (e) Not including renewals (£3,402) and special War expenditure (£2,609). (f) Rate increased from 10d. to 11d. (g) Not including Renewals (£3,383) and Special War Expenditure (£1,564).

(iv) *Water Supply in Country Towns and Districts.* Most of the country waterworks are controlled by the State Rivers and Water Supply Commission. Further information with regard to this Commission and to the works and districts under its control are given in the section in this book dealing with Water Conservation and Irrigation. There are, however, a number of other waterworks which are controlled by Waterworks Trusts or by municipal corporations.

The following table gives particulars as to the waterworks under the control of Trusts and municipal corporations for the years 1901 and 1915 to 1919:—

VICTORIA.—COUNTRY WATERWORKS UNDER TRUSTS AND MUNICIPAL CORPORATIONS, 1901 AND 1915 TO 1919.

Year.	Waterworks Trusts.				Municipal Corporations.			
	Number of Trusts.	Capital Cost.	Capital Indebtedness.	Interest Outstanding.	Number of Corporations.	Capital Cost.	Capital Indebtedness.	Interest Outstanding.
	No.	£	£	£	No.	£	£	£
1901 ..	76	823,418	748,089	(a)	24	(a)	470,041	(a)
1915 ..	94	1,173,365	911,786	14,071	28	693,258	447,347	2,005
1916 ..	97	1,206,938	929,561	13,128	28	700,832	450,518	2,050
1917 ..	98	1,224,211	937,810	13,358	28	718,089	464,114	1,871
1918 ..	98	1,196,335	904,229	12,632	29	773,998	514,115	10,379
1919 ..	100	1,210,097	907,087	13,898	29	779,834	515,240	9,658

(a) Not available.

(v) *Geelong Waterworks and Sewerage Trust.* The cost of the works (water and sewerage) under the control of the Geelong Waterworks and Sewerage Trust to 30th June, 1919, was £787,000, the estimated population served 37,000, and the number of assessments 11,700. The revenue for the year amounted to £47,511.

3. *Queensland.*—(i) *The Metropolitan Water and Sewerage Board.* (a) *General.* Since the publication of Year Book No. 12, the filtration works on Holt's Hill have been put into operation and the whole of the water supply in the Brisbane area is now filtered.

The second reservoir has been completed on Bartley's Hill, bringing the capacity of the service reservoirs to six and a half million gallons. A new reservoir is being constructed on Tarragindi Hill, a suburb of Brisbane, to contain approximately 14,000,000 gallons. It is anticipated that this reservoir will be completed during the year 1921.

(b) *Brisbane Waterworks: Cost, Revenue, Expenditure, and Interest.* The subjoined table gives particulars as to the total capital cost, the revenue and expenditure, and amount of interest and loan redemption during 1901 and each of the years 1914 to 1918 :—

BRISBANE WATERWORKS.—COST, REVENUE, EXPENDITURE, INTEREST, AND REDEMPTION OF LOANS, 1901 AND 1914 TO 1918.

Year.	Capital Cost.	Revenue from Rates and Sales of Water.	Working Expenses.	New Work Construction.	Interest and Redemption of Loans.
	£	£	£	£	£
1901	694,973	60,120	17,462	7,535	42,426
1914	1,489,720	97,366	44,549	233,822	39,194
1915	1,852,622	103,530	50,078	361,765	52,704
1916	2,136,699	111,066	53,879	284,078	53,995
1917	2,422,857	121,514	59,199	286,158	60,388
1918	2,683,846	134,121	65,653	259,132	64,039

(c) *Brisbane Waterworks: Length of Mains, Tenements and Population Served, and Water Consumption.* The following table shews the length of mains, the number of tenements connected, the population supplied, the total quantity of water supplied, the average daily supply, and the average daily supply per head of population during 1901 and each year from 1914 to 1919 :—

BRISBANE WATERWORKS.—PARTICULARS, 1901 AND 1914 TO 1919.

Year.	Length of Reticulation Mains.	Number of Tenements Connected.	Estimated Population Supplied.	Quantity Supplied.	Average Daily Supply.	Average Daily Supply per Head of Estimated Population.
	Miles.	No.	No.	,000 Gallons.	Gallons.	Gallons.
1901	198	15,652	78,260	1,536,260	4,208,931	53.78
1914	389	29,612	148,060	2,293,920	6,284,712	42.44
1915	405	31,442	157,210	2,655,440	7,275,178	46.28
1916	414	31,770	158,030	2,629,108	7,183,354	45.46
1917	429½	33,082	165,410	2,827,836	7,747,498	46.83
1918	451½	34,450	172,250	3,159,105	8,655,082	50.24
1919	477½	36,998	178,620	3,628,478	9,941,036	55.65

The total length of the trunk mains is 102½ miles.

(d) *Sewerage Scheme.* Sewerage works are under construction, by which the sewage will be treated by the activated sludge method. The survey work is being carried on, 20,180 houses having now been surveyed, and 63,878 lineal feet of main sewers, including a tunnel under the Brisbane River, have been constructed, while 30,679 lineal feet are under construction.

(ii) *Country Towns' Water Supply.* In addition to the city of Brisbane there were at the end of the year 1918 thirty towns in Queensland provided with water supply systems. The subjoined statement gives particulars of all the water supply systems—exclusive of Brisbane—for the year 1918 :—

QUEENSLAND.—PARTICULARS OF COUNTRY WATER SUPPLY SYSTEMS, 1918.

Cost of construction to 31/12/18 ..	£	989,459			
Receipts {	Rates and sales of water	99,508	Expenditure {	Office and salaries	£ 14,504
	Other ..	(a)13,619		Construction ..	25,569
				Maintenance ..	34,672
	Total receipts ..	113,127		Interest & redemption ..	28,684
				Other expenses	21,915
Assets		794,888	Liabilities	Total ..	125,344
					584,066

(a) Including £6,419 from Government loans.

4. *South Australia.*—(i) *Adelaide Water Supply System.* The water supply system of Adelaide is under the control of the Public Works Department. The total capital cost up to the 30th June, 1919, was £2,079,957, the total revenue being £3,405,982, and the area served approximately 106,465 acres.

The following table gives various particulars relating to the water supply of Adelaide for the years 1915 to 1919 inclusive :—

ADELAIDE WATER SUPPLY.—LENGTH OF MAINS, REVENUE, EXPENDITURE, AND CONSUMPTION OF WATER, 1915 TO 1919.

Year ended 30th June.	Length of Mains.	Gross Revenue.	Working Expenses.	Net Revenue.	Percentage of Net Revenue on Capital Cost.	Total Consumption of Water. (a)
	Miles.	£	£	£	%	Million of Gallons.
1915	859	112,082	36,029	76,053	3.85	3,467
1916	873	103,947	35,412	68,535	3.42	3,223
1917	882	118,951	32,974	85,977	4.26	4,113
1918	901	118,985	34,298	84,687	4.15	4,266
1919	914	126,111	36,142	89,968	4.33	5,292

(a) In the Adelaide Water District there are no governing meters. The quantities shown above are as recorded by gaugings taken at the reservoirs, and include evaporation and absorption.

(ii) *Adelaide Sewerage System.* In connexion with the sewerage system of Adelaide, which is also under the control of the Public Works Department, about 358 miles of sewers had been laid in the city and suburbs up to the 30th June, 1919.

The following table gives particulars relating to the Adelaide sewerage system for the years 1915 to 1919 inclusive :—

ADELAIDE SEWERAGE SYSTEM.—REVENUE AND EXPENDITURE, 1915 TO 1919.

Year ended the 30th June.	Revenue.			Expenditure.			Net Revenue.	
	Rates and Interest.	Sewage Farm. Sales of Produce, etc.	Total.	Mainten-ance.	Sewage Farm. Working Expenses.	Total.	Total.	Per-centage on Capital Cost.
	£	£	£	£	£	£	£	%
1915 ..	52,348	10,040	62,388	9,688	6,948	16,636	45,752	5.74
1916 ..	56,606	21,207	77,813	11,410	14,432	25,842	51,971	6.39
1917 ..	57,488	13,664	71,152	11,350	10,794	22,144	49,008	5.96
1918 ..	59,345	19,060	78,405	12,054	11,945	23,999	54,406	6.55
1919 ..	60,808	14,697	75,505	13,226	10,409	23,635	51,870	6.12

The seaside town of Glenelg is served by separate sewage disposal works, including a pumping station, septic tank, lucerne plots, and filter beds. The net revenue for the year ended 30th June, 1919, was £1,634, being 3.57 per cent. on the capital cost. Up to the same date 15½ miles of sewers had been laid.

(iii) *Water Supply in Country Towns.* In South Australia there is a number of country water works under the control of the Public Works Department, but there are no fresh additions to be made to the particulars supplied in Year Book No. 12 (page 965).

5. *Western Australia.*—(i) *Water Supply, Sewerage and Drainage Department.* This Department has the management of the undermentioned water supplies :—(a) The Metropolitan Water Supply, Sewerage and Drainage Undertaking. (b) The Goldfields Water Supply Undertaking. (c) Mines Water Supplies, boring and well-sinking in mining districts, formerly a branch of the Mines Department. (d) Water supplies, sewerage and drainage, well-sinking, boring, etc., in agricultural districts, etc., formerly a branch of the Public Works Department. The total capital expenditure on works controlled by the Department was, at 30th June, 1917, £7,375,104.

(ii) *The Metropolitan Water Supply, Sewerage and Drainage Undertaking.*—(a) *Water Supply.* For the year ending 30th June, 1919, the total consumption of water was 2,174 million gallons, exclusive of water supplied to railways from Walters Brook, Victoria Reservoir, and Narrogin Brook—an increase of 329 millions over the previous year. The number of services at that date was 33,301, and the length of mains was 623 miles.

(b) *Financial Operations of Water Supply Branch.* The following table gives particulars of the financial operations of the Metropolitan Water Supply Branch for each year ending the 30th June from 1915 to 1919 inclusive :—

METROPOLITAN WATER SUPPLY BRANCH.(a)—PARTICULARS OF FINANCIAL OPERATIONS, 1915 TO 1919.

Year ended the 30th June.	Capital Cost of Works.	Depreciation.	Net Capital Cost.	Gross Revenue.	Cost of Maintenance and Management.	Ratio of Working Expenses to Revenue.
	£	£	£	£	£	%
1915 ..	964,670	183,910	780,760	99,953	33,580	33.52
1916 ..	997,650	201,834	795,816	103,668	37,987	36.60
1917 ..	1,019,388	220,750	798,638	95,451	36,075	37.79
1918 ..	1,057,444	240,650	816,794	91,380	34,670	37.94
1919 ..	1,080,876	261,520	819,356	89,215	35,881	40.22

(a) Perth, Fremantle, and Claremont combined.

(c) *Consumption of Water.* The following table shews the total annual supply, the average daily supply, and the average daily supply per house and per head of population during each financial year from 1915 to 1919 inclusive:—

**METROPOLITAN WATER SUPPLY BRANCH.—CONSUMPTION OF WATER,
1915 TO 1919.**

Year.	Average Daily Supply in ,000 Gallons.			Water Supply for Years in ,000 Gallons.			Number of Houses Supplied.	Esti- mated Popu- lation Supplied.	Average Daily Supply.	
	From Reser- voirs.	From Bores.	Total.	From Reser- voirs.	From Bores.	Total.			Per House.	Per Head of Popu- lation.

**CENTRAL DISTRICT (INCLUDES PERTH, FREMANTLE, CLAREMONT, GUILDFORD, AND
MIDLAND JUNCTION).**

							No.	No.	Gals.	Gals.
1915	1,060	3,721	4,781	387,074	1,358,200	1,745,274	29,721	127,000	161	37.6
1916	2,443	2,609	5,052	894,057	955,075	1,849,132	30,782	129,300	164	39.1
1917	1,929	3,179	5,108	704,251	1,160,464	1,864,715	31,698	133,130	161	38.4
1918	2,659	2,444	5,103	970,671	892,054	1,862,725	32,396	136,000	157	37.5
1919	2,463	3,496	5,959	899,194	1,276,122	2,175,316	33,196	152,700	179	33.9

ARMADALE DISTRICT.

1915	28	..	28	(a) 10,220	..	(a) 10,220	82	300	(a) 341	(a) 93.3
1916	23	..	23	8,300	..	8,300	83	300	277	78.6
1917	29	..	29	(a) 10,663	..	(a) 10,663	98	410	(a) 296	(a) 70.7
1918	30	..	30	10,954	..	10,954	102	428	294	70.1
1919	32	..	32	(a) 11,495	(b) 176	11,671	105	483	304	66.2

(a) Includes water supplies to Railways. (b) From well.

(d) *Sewerage and Drainage in Perth and Fremantle.* The work of providing a sewerage system for Perth and Fremantle is still proceeding. Up to 30th June, 1919, 13,756 houses had been connected with the sewers. The revenue of the Sewerage and Drainage undertaking for 1918-19 was £54,457, as against £53,258 for the preceding year. The maintenance expenditure for the year amounted to £15,455, and interest and sinking fund charges to £48,871.

(iii) *Goldfields Water Supply Undertaking.* During the financial year 1918-19, the amount of water drawn for the Helena reservoir was 1,336,000,000 gallons, an increase on the previous year of 127,000,000 gallons. The gross revenue was £203,742, and the working expenses £83,310, leaving a surplus available towards interest and sinking fund of £120,432. The outlay for interest and sinking fund charges in respect of supplementary capital absorbed £33,536, leaving £86,896, payable to the State Treasury. During the financial year the State Treasury paid £168,813 interest and sinking fund on State loans in respect to these works, and the operations of the undertaking shewed a net deficiency of £81,917. Reticulation figures are as follows:—Towns reticulation, 238 miles; supply mains to towns, 80 miles; supply mains to mining centres, 72 miles; agricultural extensions, 481 miles; total mains, including main conduit, 1,221.

(iv) *Water Supplies for Towns.* Under the Water Boards Act 1904, the following water undertakings are administered by the Department:—Bridgetown, Brookton, Collie, Cue-Day Dawn, Geraldton, Leonora, Meekatharra, Menzies, Ora Banda, and

Pingelly. Water supplies for Albany, Broome, Bunbury, Busselton, Carnarvon, Derby, Katanning, Port Hedland, Roeburne, Sandstone, Wagin, and Wyndham are administered by local boards under the supervision of the Department.

(v) *Mines Water Supplies.* At the present time the water stations under the control of the Engineer for Goldfields Areas number about 1,400, and are spread over an area of nearly 500,000 square miles. The principal works carried out by the Branch are as follows:—(a) Domestic supplies for mining towns and the supply of water for battery and general mining purposes. (b) Opening up the very remote portions of the State by means of tracks, of which there are about 4,000 miles. (c) The sinking of wells and bore-wells, also testing the country by means of boring to locate water, and thus enabling the mineral resources of the State to be systematically prospected. (d) Diamond drilling has also been carried out for the purpose of testing the country for minerals at depths unattainable with the ordinary boring plants. (e) Over 3,000 miles of stock routes have been opened up, and wells have been sunk at easy stages, capable of watering mobs of 400 head of cattle. Tanks, dams, and reservoirs have been made on the goldfields for the conservation of surface water, their total storage capacity being over 200,000,000 gallons, and their cost over £400,000.

A very important adjunct of the branch is the camel farm established at Coolgardie, where the breeding of camels is undertaken, the number at present being about 300. These camels are used by parties from the Water Supply Branch in the arid regions of the interior, where water is scarce, and the stages are long.

(vi) *Water Supplies in Agricultural Areas.* Owing to the rapid development in agricultural districts in what a few years ago was practically unexplored country, and the consequent necessity for providing water for settlers, a large number of tanks were excavated, and wells sunk where suitable water had been proved by boring. Of 2,517 shallow bores put down, fresh water was obtained in 428, and stock water in 219, the others being salt or dry. The number of tanks excavated to 30th June, 1919, was 351, with an approximate capacity of 126,100,000 gallons, and the number of wells sunk 298. The capital expenditure for the financial year ending June, 1919, was £5,843.

(vii) *Land Drainage.* Under the Land Drainage Act 1900 the drainage undertaking for the Torbay-Grassmere District, Wonnerup, and portion of Harvey and Waroona are administered by the Department. Undertakings controlled by Boards under the same Act are East Jandakot, Lennox, Harvey, Njookenbooroo, Stirling, Saidie, Wungong, Bengel, and Wagerup.

6. *Tasmania.*—(i) *Hobart Water Supply.* The total capital cost to 30th June, 1920, was £376,267, but a considerable amount of reticulation work has been done out of revenue and not charged to capital account. The outstanding loans at 30th June, 1920, amounted to £317,805. At the same date the number of tenements supplied in the city and suburbs was 9,250, the population 40,000, and the length of reticulation mains 96 miles. The revenue and expenditure for the years 1915 to 1920 were as follows:—

HOBART WATERWORKS.—REVENUE AND EXPENDITURE, 1915 TO 1920.

Particulars.	1915.	1916.	1917.	1918.	1919.	1920.
	£	£	£	£	£	£
Revenue	23,382	24,801	21,677	24,160	26,832	28,287
Expenditure	26,471	27,676	28,794	26,490	27,468	30,696

(ii) *Hobart Sewerage System.* Up to 30th June, 1920, 74 miles of sewers had been laid at a cost of about £194,282, and 7,261 tenements had been connected. The revenue for the year was £19,901. The suburb of New Town was amalgamated with the city on the 1st January, 1920, and the survey and plans for sewerage in this area are now being proceeded with.

§ 4. Harbour Trusts.

1. *Introduction.*—In the chief ports and harbours of the Commonwealth, administrative bodies have been created, in whom is vested the control and management of the port with respect to dredging, wharf and harbour accommodation, pilotage, harbour dues, etc.

Of these Trusts or Boards some are purely departmental, some are nominated by Government, while others are comprised of members appointed by the municipal and other associations connected with the port. In the latter case, the Government is usually represented on the Board by one or more nominated members. The Boards and Trusts mentioned hereunder are the only ones for which information is at present available.

2. *Sydney Harbour Trust.*—(i) *Revenue, Expenditure, and Capital Cost.* The subjoined table gives particulars of the revenue and expenditure of the Trust, and also shows the total capital debt for properties, etc., vested in the Commissioners, the amount of interest payable on the debt, and the balance of revenue after deducting expenditure, interest, and the amount of the Commissioners' salaries :—

SYDNEY HARBOUR TRUST.—REVENUE, EXPENDITURE, CAPITAL DEBT, INTEREST, AND BALANCE, 1901 AND 1915 TO 1919.

Year ended the 30th June.	Revenue.				Expenditure.	Total Capital Debt.	Interest.(b)	Balance.
	Wharfage and Harbour Rates.	Tonnage Rates and Berthing Charges.	From Other Sources.	Total.				
	£	£	£	£	£	£	£	£
1901(a)	42,784	3,208	12,324	58,316	11,275	4,692,782	55,554	— 8,513
1915..	255,217	15,046	194,418	464,681	161,358(c)	7,367,922	263,478	39,845
1916..	274,551	17,630	197,540	489,721	171,951(c)	7,948,756	289,256	28,484
1917..	252,044	29,095	230,841	511,980	165,586(c)	8,598,939	330,954	15,441
1918..	280,476	26,862	269,121	576,459	170,854(c)	8,796,521	348,023	57,582
1919..	323,253	31,347	264,300	618,900	179,899	8,691,972	336,823	102,178

(a) For the period from 11th February to the 30th June, 1901. (b) The rate of interest charged each year is the average rate on the total capital debt of the State, which varies. (c) Including expenditure for the renewal, replacement, or reconstruction of wharves or buildings.

NOTE.—The minus sign (—) represents a loss.

(ii) *Dredging and Towing.* The subjoined statement gives particulars of the dredging and towing done by the dredges and tug-boats owned by the Trust :—

SYDNEY HARBOUR TRUST.—PARTICULARS OF DREDGING AND TOWING, 1901 AND 1915 TO 1919.

Year.	Dredging.			Towing Dredged Material.		
	Tons Dredged.	Total Expenditure.	Expenditure per Ton.	Miles run Towing.	Total Expenditure in Towing.	Expenditure per Mile Towing.
	Tons.	£	Pence.	Miles.	£	Pence.
1901 ..	317,500	3,696	2.79	29,277	2,849	23.35
1915 ..	1,561,500	27,937	4.29	48,982	9,949	48.06
1916 ..	2,092,918	28,253	3.24	46,581	11,268	58.05
1917 ..	1,938,130	31,697	3.93	43,847	11,950	65.41
1918 ..	1,319,455	26,780	4.87	36,577	16,367	107.39
1919 ..	1,848,993	26,981	3.50	45,711	19,263	101.14

3. *The Melbourne Harbour Trust.*—(i) *Works in the River.* Since the publication of Year Book No. 12, the middle swinging basin has been increased in size from 550 feet by 800 feet to 700 feet by 1,000 feet, and a commencement has been made in widening the river for a distance of 4,500 feet below this basin by 100 feet, making it 400 feet wide. On the south side of the river new wharves, 1,930 feet long, are in course of construction. A wharf 400 feet long has been constructed at Spotswood. The total length of wharves is now 18,368 feet, covering an area of 936,698 square feet.

(ii) *Works in Victoria Dock.* There are now 11,760 feet of wharfage, including the new central pier, and the total cost including wharves, sheds, approaches, and new pier was to 31st December, 1919, £729,932. The total length of sheds is now 7,792 feet, and their area 438,866 square feet. Two additional cargo sheds, each 480 feet by 60 feet, have been completed on the central pier. The expenditure on this pier to the 31st December, 1919, amounted to £197,268. The whole of the sheds on the south and south-east side of the dock are being widened from 53 feet to 80 feet, and when completed will give an additional shed accommodation of 99,900 square feet.

(iii) *Dredging.* The total quantity of material raised by the dredging and excavation done in the improvement of the river and bay amounts to 66,500,000 cubic yards.

During the ten years ending 31st December, 1919, the average cost of dredging per cubic yard was 2.09 pence, and the cost of towing and depositing 4.09 pence, irrespective of depreciation of plant. The Trust has expended £334,774 in reclaiming land within its jurisdiction. The amount of material raised annually is about 2,594,000 cubic yards.

(iv) *Financial Operations.* The following table gives particulars of the revenue and expenditure of the Trust from 1915 to 1919 inclusive :—

MELBOURNE HARBOUR TRUST.—REVENUE AND EXPENDITURE, 1915 TO 1919.

Particulars.	1915.	1916.	1917.	1918.	1919.
REVENUE.					
	£	£	£	£	£
Rates, rents, etc.	306,034	311,395	312,654	314,777	323,253
Interest	1,293	170	31	123	193
Other receipts	7,957	11,109	7,610	10,691	10,851
Total	315,284	322,674	320,295	325,591	334,297

MELBOURNE HARBOUR TRUST.—REVENUE AND EXPENDITURE,
1915 TO 1919—*continued.*

Particulars.	1915.	1916.	1917.	1918.	1919.
EXPENDITURE.					
Management and general expenses	£ 46,257	£ 56,265	£ 49,205	£ 45,373	£ 45,570
Interest	86,567	88,372	93,996	95,980	104,245
Total	132,824	144,637	143,201	141,353	149,815
Less standing charges added to works	23,823	21,135	19,632	23,595	23,495
Total	109,001	123,502	123,569	117,758	126,320
Wharfage and other refunds	1,620	1,140	1,378	2,382	1,677
Charges remitted on troopships	3,166	..	..	..	..
Consolidated revenue of Victoria	60,000	60,000	60,000	62,305	62,460
Flotation of loan expenses	5,011	..	1,005	3,012	7,956
Redemption of loans expenses	925	..	..	2,392	4,499
Maintenance	55,520	53,375	70,112	35,706	77,766
Total expenditure	235,243	238,017	256,064	223,555	280,678
Surplus on revenue account	80,041	84,657	64,231	102,036	53,619
Less depreciation and renewals account and sinking fund	30,415	51,364	51,747	52,000	52,500
Net surplus on revenue account	49,626	33,293	12,484	50,036	1,119

CAPITAL EXPENDITURE.

	£	£	£	£	£
Land and property	2,060	1,316	588	1,153	964
Deepening waterways	93,615	82,429	50,871	108,037	68,746
Wharves construction	120,627	105,803	62,246	37,321	77,305
Approaches construction	10,921	8,960	6,201	11,417	3,774
Other harbour improvements	4,275	35,946	26,923	7,352	3,068
Floating plant	3,112	25,190	3,814	811	1,435
General plant	4,107	2,853	1,728	130	509
Stock account	25,451	21,784	4,686	..	..
Total	264,168	284,281	157,057	166,221	155,801

4. Geelong Harbour Trust.—To the 31st December, 1919, this Trust had borrowed £591,000. The sinking fund at the same date stood at £27,542. The revenue receipts for the year 1919 were £48,213, and the disbursements £56,207.

5. Bundaberg Harbour Board.—The Harbour Board consists of eight members, instead of nine as heretofore, representing the district shire councils and the shipowners and exporters, with one Government nominee.

The total exports for the year ending 31st December, 1919, amounted to 17,865 tons, as against 41,192 tons for the previous year. The decrease was owing to shipping troubles and prolonged drought. The principal items of export were:—Raw sugars, 586 tons; refined sugars, 11,097 tons; syrups and molasses, 1,595 tons; rum and spirits, 1,203 tons; copper ores, 181 tons. The revenue for 1919 amounted to £5,470, as against £7,567 for 1918; the expenditure for 1919 was £6,751 as compared with £9,390 for 1918. Dredging resulted in 82,000 tons of silt, etc., being lifted and deposited at sea.

6. Cairns Harbour Board.—For the year ended 31st December, 1919, the receipts from harbour and berthage dues and miscellaneous items amounted to £24,872, while the revenue from taxes and fixed rates was £21,600. The total income amounted to £24,907. The principal items of export were:—Raw sugar, timber, maize, fruit, meat, and tallow.

7. Rockhampton Harbour Board.—The principal items of export by water in 1919 were—wool, 25,137 bales; preserved and frozen meats, 33,986 tons; tallow, 5,983 tons; blister copper and concentrates, 4,527 tons; and gold, £298,349 in value. For the year 1919 the receipts were £24,621, including loan advances, £3,026; and the expenditure was £27,451, including £5,088 interest on loans. The total net registered tonnage entering the port in 1919 was 241,950.

8. Bunbury (Western Australia) Harbour Board.—The work of extending the jetty is nearing completion, and this will give two additional berths at which vessels drawing up to 28 feet can load.

The capital expenditure for the year ending 30th June, 1919, was £9,541, making the total capital expenditure to that date £338,392. The revenue for the year was £12,510 and the expenditure £5,381, the balance being paid into Consolidated Revenue to meet interest and sinking fund. The export tonnage for the year was made up as follows:—Jarrah timber, 78,424 loads of 50 cubic feet; wheat, 8,984 tons; coal (bunker), 10,947 tons; and miscellaneous goods, 390 tons; the total export value being £413,890. The total import tonnage was 6,144 tons.

9. Fremantle Harbour Trust.—For the year ended 30th June, 1919, the total revenue of the Fremantle Harbour Trust was £185,817, and the expenditure £94,093. The gross amount paid to the Treasury for the year was £91,724, being interest £70,861, sinking fund £18,837, and surplus revenue, £2,026.

10. Burnie and Table Cape (Tasmania) Marine Board.—A breakwater has been constructed 1,250 feet in length with a depth alongside up to 42 feet at low water, together with two timber wharves 500 feet and 400 feet long respectively. The revenue for the year 1918 was £9,738, and the expenditure £15,249, including £11,446 interest on construction loan.

11. Hobart Marine Board.—The total capital debt on properties in connexion with the Harbour Trust vested in the Board is £106,350. The interest paid in 1919 amounted to £4,350, and the contributions to sinking fund, £1,350. The receipts and expenditure of the Board for the last five years were as follows:—

HOBART MARINE BOARD.—RECEIPTS AND EXPENDITURE, 1915 TO 1919.

Year.	Receipts.			Expenditure.		
	General.	Harbour Improvements, Debentures, etc.	Total.	General.	Harbour Improvements.	Total.
	£	£	£	£	£	£
1915	23,448	5,264	28,712	(a)23,096	6,983	30,079
1916	22,800	6,062	28,862	(b) 21,803	7,801	29,604
1917	17,294	6,627	23,921	(c) 17,247	5,212	22,459
1918	20,046	3,775	23,821	(d)20,887	3,131	24,018
1919	21,505	367	22,872	20,303	108	20,411

(a) Including £1,500 transferred from General Account to Harbour Improvements. (b) Including £4,000 debentures purchased. (c) Including £938 transferred from General Account to Harbour Improvements. (d) Including £3,775 transferred from General Account to Harbour Improvements.

12. Launceston Marine Board.—The total capital debt on 31st December, 1919, was £231,539, of which £184,301 was incurred on the Tamar Improvement Scheme. The revenue for 1919 was £33,748 and the expenditure £30,238.

§ 5. Fire Brigades.

1. New South Wales.—*Receipts and Disbursements of Board of Fire Commissioners of New South Wales.* The subjoined table shews the actual receipts and disbursements of the Board for the past five years in respect of the Sydney Fire District :—

NEW SOUTH WALES BOARD OF FIRE COMMISSIONERS.—RECEIPTS AND DISBURSEMENTS FOR SYDNEY FIRE DISTRICT, 1915 TO 1919.

Year.	Receipts.						Disbursements.
	From Government.	From Municipalities.	From Fire Insurance Companies.	From Firms.	From other Sources.	Total.	
	£	£	£	£	£	£	£
1915	29,071	29,071	28,161	410	1,749	88,462	96,146
1916	29,071	29,071	28,883	188	2,205	89,418	98,934
1917	34,283	34,283	33,562	721	4,103	106,952	103,539
1918	34,231	34,231	33,858	373	3,950	106,643	107,104
1919	34,198	34,198	33,819	379	4,339	106,933	115,637

The Sydney fire district includes the City of Sydney and suburbs, comprising a total area of 257 square miles. On the 31st December, 1919, the Board had under its control in this district 63 stations, 310 permanent men, 167 partially paid firemen, 10 steam and 42 motor fire engines, 45 horses, 140,690 feet of hose, and 504 telephone fire-alarms. The length of wire used for telephone lines was 1,241 miles.

2. Victoria.—(i) *Metropolitan Fire Brigades Board.* On the 30th June, 1919, this Board had under its control 41 stations, 250 permanent men, 102 partially-paid firemen, 49 special service firemen, 6 motor drawn steam fire engines, 8 petrol motor fire pumps, 47 other petrol motor appliances, 100,872 feet of hose, and 321 fire-alarm circuits having 1,032 street fire alarms, containing telephones. The following table gives particulars as to the financial operations of the Board during each year from 1914 to 1918-19 inclusive :—

VICTORIA.—REVENUE AND EXPENDITURE OF METROPOLITAN FIRE BRIGADES BOARD, 1914 TO 1918-19.

Particulars.	1914.	1915.	1916.	1917-18.	1918-19.
ORDINARY RECEIPTS.					
	£	£	£	£	£
Contributions	68,433	77,794	86,771	84,418	85,569
Receipts for services	8,241	6,634	7,595	6,645	7,197
Interest and sundries	1,380	9,957	4,110	1,960	2,766
Total	78,054	94,385	98,476	93,023	95,532
ORDINARY EXPENDITURE.					
Salaries	50,966	52,633	55,612	58,900	60,915
Interest and sinking fund	9,432	11,442	13,397	13,610	14,971
Other expenditure	18,971	25,744	24,566	25,057	20,968
Total	79,369	89,819	93,575	97,567	96,854

(ii) *The Country Fire Brigades Board.* At the end of the year 1919 there were 111 municipal councils and 74 insurance companies included in the operations of the Act. All the brigades are volunteer brigades, but in the large centres a few permanent station-keepers and watchmen are employed. There were 133 registered brigades and 2,821 registered firemen at the end of the year 1919.

For the year 1919 the receipts of the Country Fire Brigades Board amounted to £15,585 and the expenditure to £15,308.

3. *Queensland.*—In the year 1918 there were thirty-two fire brigades organised in various towns in Queensland, and the following table gives particulars of revenue and expenditure for the year 1918 :—

QUEENSLAND.—FIRE BRIGADES, 1918.

Receipts.	Amount.	Expenditure.	Amount.
	£		£
From Government	10,901	Salaries and wages	20,037
„ Local authorities	11,093	Building, repairs, etc.	1,252
„ Insurance companies	10,857	Plant, stores, clothing, etc.	3,889
„ Other sources	1,080	Other	5,252
Total	33,931	Total	30,430

At the end of the year 1918 the fire brigades staffs comprised 104 permanent men, 208 partially paid, and 118 volunteers. The Metropolitan Brigade at Brisbane and the South Brisbane brigade protect an area of 9½ square miles; their joint staffs comprise 66 men. They have three steam engines, three motor turbines, one chemical motor, nine reels, consisting of four horse, two motor, and three hand reels, and 27,367 feet of hose. There are 3 telephone fire alarms and 196 call points.

4. *South Australia.*—The revenue of the Fire Brigades Board in 1919 amounted to £31,129. Brigades are established in the following municipalities, viz., Adelaide, Kensington and Norwood, Unley, Port Adelaide, Glenelg, Gawler, Kapunda, Moonta, Kadina, Port Pirie, Port Augusta, Wallaroo, Thebarton, and Tanunda. The strength of the brigades consists of 96 permanent firemen and 43 auxiliary firemen. The plant consists of 5 steam fire engines, 1 motor engine, 10 motor hose carriages, 1 floating fire engine, 5 hose reels, and 13 horses. The number of calls received during the year 1919 was 439, of which 10 were to fires of a serious nature. Of the total calls, 266 were in the metropolitan district.

5. *Western Australia.*—The receipts of the Western Australian Fire Brigades Board for the year 1919 amounted to £26,298, and the expenditure to £27,908.

The whole of the brigades throughout the State are now controlled by this Board, and number four permanent, seven permanent and partially paid, six permanent and volunteer, one partially paid, and twenty-four purely volunteer brigades; making a total of forty-two. The staff includes a chief officer, deputy chief officer, third officer, motor engineer, electrical engineer, 11 other officers, 65 permanent firemen, 26 partially-paid firemen, and 536 volunteer firemen.

6. *Tasmania.*—The expenditure for the year 1919 for the Hobart Fire Brigade amounted to £3,698. There are also volunteer brigades under the control of local boards in most of the larger centres of population.

§ 6. Local Government Finance.

1. **Introduction.**—In the preceding parts of this section certain particulars have been given regarding local authorities in each individual State. It is proposed to give here in a comparative form for each State particulars regarding the financial operations of local governing bodies. The particulars given in the tables in the two next paragraphs relate to financial years ending as follow :—New South Wales : for the calendar year 1918. Victoria : 30th September, 1918, except Melbourne, 31st December, and Geelong, 31st August, 1918. Queensland : calendar year 1918. South Australia : Corporations, 30th November, and district councils, 30th June, 1918. Western Australia : 31st October, 1918, except road districts, 30th June, 1918. Tasmania : calendar year 1918.

2. **Number, Revenue, Expenditure, and Valuation of Local Authorities.**—The following table gives particulars of the number, revenue, expenditure, and valuation of local authorities in each State and in the Commonwealth during the year indicated above. It should be noted that, excepting in Tasmania, the metropolitan water supply systems are not under municipal control ; the particulars given of revenue and expenditure for the five States other than Tasmania do not, therefore, include revenue and expenditure on account of these systems.

NUMBER, REVENUE, EXPENDITURE, AND VALUATION OF LOCAL AUTHORITIES(a) IN EACH STATE, 1918.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	C'wealth.
No. of local authorities(a)	320	190	173	184	141	50	1,058

RECEIPTS.

	£	£	£	£	£	£	£
Rates—							
General ..	1,765,646	1,462,640	749,773	265,194	220,364	56,843	4,520,460
Other (b) ..	206,334	304,925	291,798	92,021	106,159	151,866	1,153,103
Government grants	336,342	62,460	40,385	65,119	34,464	22,266	561,036
Loans (c) and other sources	929,627	696,519	172,624	108,680	382,216	326,034	2,615,700
Total ..	3,237,949	2,526,544	1,254,580	531,014	743,203	557,009	8,850,299

EXPENDITURE.

Works, services, etc.	2,659,665	1,698,420	958,214	400,856	462,527	319,026	6,498,708
Interest on loans and overdrafts	115,919	277,435	18,902	10,161	85,006	87,382	594,805
Redemptions, sinking funds, etc. ..	53,798	124,797	35,780	19,040	57,963	78,057	369,435
Administration ..	226,943	214,797	151,118	58,342	61,836	40,051	753,087
Other ..	63,293	230,806	183,716	58,801	77,320	33,973	647,909
Total ..	3,119,618	2,546,255	1,347,730	547,200	744,652	558,489	8,863,944

VALUATIONS.

Capital value of property ..	d171,939,144	340,604,233	62,990,360	98,100,538	f26,077,875	36,232,654	g735,944,804
Annual value of property ..	(e)	18,150,666	(e)	6,514,984	f1,509,736	1,787,234	(e)

(a) Including particulars for all areas controlled by local governing bodies responsible for the construction and maintenance of roads and streets, such areas being variously known in the several States as cities, towns, boroughs, shires, municipalities, road districts, etc. (b) Exclusive of rates for water supply and sewerage in metropolitan and most other principal towns, such rates being collected by special boards or general Government. (c) Exclusive of loans in connexion with extraordinary works of construction. (d) Unimproved capital value of all ratable property. (e) Not available. (f) Excluding District Road Boards. (g) Incomplete.

3. Local Government Loans, 1918.—The following table gives particulars for each State of loans raised by local authorities during the year 1918, of loans current at the end of that year, of liability on account of interest and sinking fund, and of loans maturing during 1918 :—

PARTICULARS OF LOANS RAISED BY LOCAL AUTHORITIES, 1918.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	C'wealth.
	£	£	£	£	£	£	£
Loans from general Govern- ment—							
Raised during year ..	..	3,878	27,637	..	..	42,455	73,970
Current at end of year ..	..	575,080	443,844	..	64,039	591,951	1,674,914
Loans from other sources—							
Raised during year ..	608,811	145,982	..	11,867	24,325	168,613	959,598
Current at end of year ..	9,189,241	5,188,970	1,070,852	366,751	1,796,432	1,170,622	18,782,868
Total—							
Raised during year ..	608,811	149,860	27,637	11,867	24,325	211,068	1,033,568
Current at end of year ..	9,189,241	5,784,050	1,514,696	366,751	1,860,471	1,762,573	20,457,782
Current loans, exclusive of those obtained from general Government, raised within the Commonwealth ..	8,368,782	5,188,970	..	366,751	1,326,832	407,823	15,659,158
Annual liability on account Interest	(a)	246,821	18,802	16,222	85,535	87,820	(a)
Total sinking fund at end of year	(a)	601,604	140,448	20,213	316,772	155,766	(a)
Amount of loans maturing during year—							
Redeemed	(a)	(a)	..	15,989	30,842	132,784	(a)
Renewed .. .. .	..	(a)	..	6,700	..	100	(a)

(a) Not available.