

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 treated in detail. 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 developments have taken place.

§ 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 1920 being 183,985 square miles, of which 181,140 square miles are comprised within shires and 2,845 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 185 municipalities in New South Wales at the end of 1920; 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 1916 to 1920:—

NEW SOUTH WALES.—MUNICIPALITIES, IMPROVED CAPITAL VALUE, AREA, POPULATION, NUMBER OF BUILDINGS, AND TOTAL RATES LEVIED, 1901 AND 1916 TO 1920.

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	88,116,800	91,220	(b) 487,900	94,907	277,457	36,429,600	1,732,302	371,330	73,862	127,564
1916	176,659,505	95,259	750,280	(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	62,035,080	1,742,275	453,800	(c)	516,816
1918	188,671,508	95,259	777,140	(c)	1,165,839	63,368,253	1,740,675	463,500	(c)	542,700
1919	194,495,477	95,259	811,910	(c)	1,506,094	66,059,272	1,710,475	482,860	(c)	586,256
1920	211,994,623	95,259	881,594	(c)	1,559,983	77,900,508	1,725,875	525,264	(c)	694,409

(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 1916 to 1920 inclusive:—

NEW SOUTH WALES.—MUNICIPALITIES, UNIMPROVED AND IMPROVED CAPITAL VALUES, 1916 TO 1920.

Year.	Sydney.	Suburbs.	Metropolis.	Country.	Total.
UNIMPROVED VALUE.					
	£	£	£	£	£
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
1919	31,831,054	39,672,190	71,503,244	25,289,371	96,792,615
1920	33,077,620	46,847,825	79,925,445	29,060,263	108,935,708
IMPROVED VALUE.					
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
1919	82,808,760	111,686,717	194,495,477	66,059,272	260,554,749
1920	84,530,400	127,414,223	211,994,623	78,900,508	290,895,131

(b) *Revenue.* The following table gives particulars of the revenue of municipalities for the year ending 31st December, 1920:—

NEW SOUTH WALES.—MUNICIPALITIES, REVENUE, 1920.

Particulars.	Sydney.	Suburbs.	Country.	Total.
	£	£	£	£
General fund	1,724,858(a)	1,182,355	840,021	2,022,376 (b)
Trading accounts		1,453	281,846	283,299 (b)
Special and local funds		15,635	234,453	250,088 (b)
Loan funds(c)		696	745	1,441 (b)
Gross revenue	1,724,858(a)	1,200,139	1,357,065	4,282,062

(a) Items of revenue and expenditure for the City of Sydney cannot be allocated to the different headings shown for municipalities. (b) Exclusive of Sydney. (c) Most of the Loan Funds are included in the General Fund, under provisions of the Local Government Act.

(c) *Expenditure.* The following table gives particulars of expenditure of municipalities for the year ending 31st December, 1920:—

NEW SOUTH WALES.—MUNICIPALITIES, EXPENDITURE, 1920.

Particulars.	Sydney.	Suburbs.	Country.	Total.
	£	£	£	£
General fund	1,747,972 (a)	1,130,981	810,398	1,941,379 (b)
Trading accounts		2,071	263,179	265,250 (b)
Special and local funds		12,628	219,242	231,870 (b)
Loan funds(c)		85	745	830 (b)
Gross expenditure	1,747,972 (a)	1,145,765	1,293,564	4,187,301

(a) See note (a) to preceding table. (b) Exclusive of Sydney. (c) See note (c) to preceding table.

(d) *Assets and Liabilities.* The financial position of the municipalities as at the 31st December, 1920, is shown by the following statement of assets and liabilities of the various funds :—

NEW SOUTH WALES.—MUNICIPALITIES, ASSETS AND LIABILITIES, 1920.

Particulars.	Sydney.	Suburbs.	Country.	Total.
	£	£	£	£
Assets—				
General fund	12,714,012 (a)	1,015,069	930,668	1,945,737 (b)
Trading accounts		22,128	746,754	768,882 (b)
Special and local funds		7,255	1,843,001	1,850,256 (b)
Loan funds (c)		302	12,196	12,498 (b)
Total	12,714,012 (a)	1,044,754	3,532,619	17,291,385
Liabilities—				
General fund	12,243,384 (a)	1,354,497	525,284	1,879,781 (b)
Trading accounts		22,746	442,426	465,172 (b)
Special and local funds		2,120	1,695,895	1,698,015 (b)
Loan funds (c)		2,020	11,827	13,847 (b)
Total	12,243,384 (a)	1,381,383	2,675,432	16,300,199

(a) See note (a) to last table on preceding page. (b) Exclusive of Sydney. (c) See note to previous table.

(iii) *Shires.* The total area of the 136 shires constituted under the new system is 181,140 square miles, and the population on the 31st December, 1920, was 670,123.

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 1920 was £120,872,326, but 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. The total amount of all rates levied in 1920 was £868,809.

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

NEW SOUTH WALES.—INCOME OF SHIRES, 1916 TO 1920.

Particulars.(a)	1916.	1917.	1918.	1919.	1920.
	£	£	£	£	£
General Fund—					
General rates (including interest)	633,973	672,473	710,983	742,026	825,781
Government endowment	143,259	151,446	162,188	153,234	156,429
Public works	205,277	167,696	157,737	230,673	196,045
Health administration	4,087	3,987	3,865	13,731	79,410
Public services	11,162	10,682	11,487	12,481	14,630
Shire property	12,449	14,343	14,258	15,539	13,456
Miscellaneous	7,507	7,303	7,227	7,192	12,125
Special, Local, and Loan Funds	75,309	84,374	93,101	114,885	57,540
Total revenue	1,093,023	1,112,304	1,161,046	1,289,761	1,355,416

(a) The receipts for Public Works, Health Administration, Public Service, etc., include Government grants during 1920 amounting to £168,022.

(c) *Expenditure.* The following statement shews the expenditure of shires during the years 1916 to 1920 inclusive :—

NEW SOUTH WALES.—EXPENDITURE OF SHIRES, 1916 TO 1920.

Particulars.	1916.	1917.	1918.	1919.	1920.
	£	£	£	£	£
<i>General Fund—</i>					
Administrative expenses ..	100,224	100,649	99,391	115,657	146,762
Public works ..	843,803	901,730	916,351	1,013,337	994,731
Health administration ..	8,513	9,149	9,292	26,237	84,282
Public services ..	15,229	18,256	19,370	21,293	26,239
Shire property ..	14,969	16,211	16,884	17,037	14,935
Miscellaneous ..	17,510	15,912	15,526	16,034	8,589
<i>Special, Local, and Loan Funds</i>	78,649	78,819	86,905	98,403	50,210
Total expenditure ..	1,078,897	1,140,726	1,163,719	1,307,998	1,225,748

(d) *Assets and Liabilities.* The financial position of the Shires at the end of the year 1920 shewed that there was an excess of assets of £405,044. The following table gives particulars of assets and liabilities as at the 31st December, 1920 :—

NEW SOUTH WALES.—ASSETS AND LIABILITIES OF SHIRES, 1920.

Assets.			Liabilities.		
		£			£
General fund ..	..	589,154	General fund ..	..	206,120
Trading accounts ..	..	25,543	Trading accounts ..	..	21,497
Street lighting account ..	..	8,704	Street lighting account ..	..	957
Roads, bridges, and streets account ..	..	9,890	Roads, bridges, and streets account ..	..	1,984
Drainage account ..	..	271	Drainage account ..	..	350
Fire brigade account ..	..	969	Fire brigade account ..	..	30
Water supply account ..	..	8,762	Water supply account ..	..	6,491
Parks account ..	..	16 6 2	Parks account ..	..	17,208
Miscellaneous ..	..	3,255	Miscellaneous ..	..	3,524
			Total ..	..	258,161
			Excess of assets ..	..	405,044
Total ..	..	663,205	Total ..	..	663,205

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) which 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 details.

In addition to the endowment of £50,000, the municipalities received from the Government during the financial year 1920–21 a sum of £66,002 out of the Licensing 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) *Municipalities.*—*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 1917 to 1921 inclusive :—

VICTORIA.—PARTICULARS OF MUNICIPALITIES, 1901 AND 1917 TO 1921.

Year ending 30th September.	Number of Municipa- lities.	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
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
1920	..	52	877,880	228,518	200,206	172,838,636	9,687,320
1921	..	55	902,470	237,037	204,547	193,947,624	10,864,184
SHIRES.							
1901	..	150	571,683	159,128	122,645	£ 106,839,331	£ 5,771,865
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	176,297,629	8,922,859
1920	..	138	628,420	188,892	142,570	184,599,186	9,340,172
1921	..	138	639,930	198,801	145,067	205,555,121	10,350,524

(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 1916 to 1920 :—

VICTORIA.—MUNICIPAL ASSETS AND LIABILITIES, 1901 AND 1916 TO 1920.

Items.	1901.	1916.	1917.	1918.	1919.	1920.
ASSETS.						
	£	£	£	£	£	£
MUNICIPAL FUND—						
Uncollected rates	187,205	146,491	138,617	132,217	133,585	133,573
Other assets	122,581	392,876	442,388	427,046	550,283	483,724
LOAN FUND—						
(a) Sinking funds—						
Amount at credit	675,310	792,445	745,784	596,550	465,132	489,332
Arrears due	1,391	834	1,732	5,054	1,003	3,098
(b) Unexpended balances	394,136	209,363	286,206	238,906	204,761	221,405
PROPERTY—						
Buildings, markets, etc.	2,507,441	3,750,947	3,848,320	3,871,232	3,938,068	4,077,892
Waterworks	197,875	177,050	252,069	268,815	271,581	270,147
Gasworks	63,732	105,124	109,215	110,819	114,505	117,704
Total	4,149,471	5,575,130	5,824,331	5,850,639	5,679,008	5,796,875

VICTORIA.—MUNICIPAL ASSETS AND LIABILITIES, 1901 AND 1916 TO 1920
—continued.

Items.	1901.	1916.	1917.	1918.	1919.	1920.
LIABILITIES.						
MUNICIPAL FUND—	£	£	£	£	£	£
Arrears due sinking funds ..	1,021	834	1,732	5,054	1,093	3,098
Overdue interest ..	9,413	14,456	24,425	6,920	6,611	7,091
Bank overdrafts ..	157,046	252,130	233,160	317,110	484,785	442,326
Other liabilities ..	112,297	221,183	233,189	269,947	280,475	281,675
LOAN FUNDS—						
Loans outstanding ..	4,253,304	5,869,260	6,030,343	5,764,050	5,041,429	5,192,089
Due on loan contracts ..	52,826	15,888	42,428	47,145	129,192	220,188
Due on current contracts ..	51,134	73,005	98,538	78,115	64,037	85,368
Total ..	4,637,041	6,446,756	6,663,815	6,488,641	6,007,622	6,231,815

(iv) *Revenue and Expenditure of Municipalities.* The following table shews the revenue from various sources, and the expenditure under various heads, exclusive of loan revenue and expenditure, of municipalities during the years 1901 and 1916 to 1920 :—

VICTORIA.—REVENUE AND EXPENDITURE OF MUNICIPALITIES,
1901 AND 1916 TO 1920.

Items.	1901.	1916.	1917.	1918.	1919.	1920.
REVENUE.						
	£	£	£	£	£	£
Taxation ..	722,346	1,346,439	1,395,723	1,462,640	1,560,968	1,750,778
{ Rates ..	104,499	105,772	108,651	109,916	138,517	135,383
{ Licenses ..	14,965	20,528	20,883	21,481	21,074	22,575
{ Dog fees ..	49,623	63,812	67,726	71,737	85,240	87,845
{ Market and weigh- bridge dues ..	175,972	74,372	68,364	62,460	96,429	74,563
Government ..	24,999	52,045	64,620	63,910	93,500	73,182
{ endowments and grants ..	48,253	91,125	96,484	101,791	101,996	116,096
Contributions for streets, etc. ..	54,117	59,006	62,953	65,821	60,845	85,517
Sanitary charges ..	89,210	441,128	487,962	566,788	714,156	879,024
Rents ..						
Other sources ..						
Total ..	1,283,984	2,254,227	2,363,366	2,526,544	2,880,125	3,224,963

EXPENDITURE.

	£	£	£	£	£	£
Salaries, etc. ..	139,270	206,353	210,034	214,797	226,692	246,851
Sanitary work, street cleaning, etc. ..	132,542	236,766	243,774	244,984	248,056	306,775
Lighting ..	86,059	95,420	97,685	98,511	100,679	102,945
Fire brigades' contributions ..	16,769	32,086	33,939	32,786	35,120	39,637
Public works { Construction ..	244,315	238,773	200,151	232,977	294,874	208,326
{ Maintenance ..	345,334	847,505	897,136	1,046,474	1,152,247	1,385,347
Formation of private streets, etc. ..	23,350	68,024	63,499	75,474	111,125	82,746
Redemption of loans ..	27,745	101,461	112,020	124,797	137,688	128,664
Interest on loans ..	197,810	262,760	274,113	277,435	257,057	264,147
Charities ..	13,407	18,801	20,350	10,977	21,103	25,031
Other expenditure ..	103,403	180,018	186,310	178,043	332,347	313,630
Total ..	1,330,004	2,287,967	2,339,011	2,546,255	2,917,888	3,104,119

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, 1917, and 1920, 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 1916 to 1920 :—

**QUEENSLAND.—PARTICULARS OF CITIES AND TOWNS AND SHIRES,
1916 TO 1920.**

Year.	Municipality.	Area.	Population.	Number of Inhabited Dwellings.	Capital Value.	Assets.	Liabilities.		
							Government Loans.	Other.	Total.
		Square Miles.	No.	No.	£	£	£	£	£
1916	Cities and Towns	395	295,495	58,223	16,361,028	1,741,355	258,225	1,170,038	1,428,263
	Shires ..	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	406	320,450	62,839	18,771,990	1,829,543	261,385	1,217,593	1,478,978
	Shires ..	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	507	330,272	65,588	17,436,371	1,988,957	270,820	1,328,205	1,599,025
	Shires ..	669,387	411,278	88,384	45,553,989	594,828	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
1919	Cities and Towns	510	346,019	66,879	17,648,597	2,037,948	304,204	1,363,391	1,667,595
	Shires ..	669,384	425,855	92,030	46,259,148	625,883	191,551	206,721	398,272
	Total ..	669,894	771,874	158,909	63,907,745	2,663,831	495,755	1,570,112	2,065,867
1920	Cities and Towns	510	330,044	69,340	19,066,071	2,161,774	457,170	1,410,016	1,867,186
	Shires ..	669,384	422,683	95,173	47,259,059	723,871	299,361	214,262	513,623
	Total ..	669,894	752,727	164,513	66,325,130	2,885,645	756,531	1,624,278	2,380,809

(iii) *Receipts and Expenditure of Cities, Towns, and Shires.* The following table shews 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 1916 to 1920 :—

**QUEENSLAND.—REVENUE AND EXPENDITURE OF CITIES AND TOWNS
AND SHIRES, 1916 TO 1920.**

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.
1916	Cities and Towns	£ 29,541	£ 460,252	£ 86,139	£ 575,932	£ 478,962	£ 20,221	£ 50,388	£ 87,970	£ 637,541
	Shires ..	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	30,012	495,510	96,959	622,481	475,689	24,062	56,179	92,298	648,228
	Shires ..	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	16,937	535,124	103,477	655,538	455,824	21,916	61,731	141,366	680,837
	Shires ..	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
1919	Cities and Towns	45,833	612,476	140,164	798,473	577,993	20,925	68,585	193,455	860,958
	Shires ..	41,000	538,769	119,707	699,476	507,506	18,080	97,047	95,385	718,018
	Total ..	86,833	1,151,245	259,871	1,488,949	1,085,499	39,005	165,632	288,840	1,578,976
1920	Cities and Towns	180,110	700,321	144,403	1,024,834	774,969	30,234	76,703	192,742	1,074,648
	Shires ..	123,554	616,025	120,464	860,043	618,287	18,136	110,603	84,781	831,807
	Total ..	303,664	1,316,346	264,867	1,884,877	1,393,256	48,370	187,306	277,523	1,906,455

(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 £200,000, 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 shew the amounts of assessments and the revenue and expenditure of corporations and of district councils for the financial years 1901 and 1916 to 1920; the figures given are exclusive of the Main Roads Funds, particulars regarding 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 1916 TO 1920 (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
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
1919 ..	2,237,394	215,605	25,280	93,207	334,092	254,559	340,172
1920 ..	2,300,858	233,645	27,347	103,208	364,200	278,283	379,709

DISTRICT COUNCILS.

		£	£	£	£	£	£
1901 ..	1,412,507	63,321	15,225	51,919	130,465	65,406	128,499
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
1919 ..	2,829,198	167,161	38,555	43,906	249,622	206,952	270,108
1920 ..	2,938,336	180,414	37,730	80,809	298,953	232,693	310,676

(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, etc., of municipalities are shewn in the table hereunder:—

WESTERN AUSTRALIA.—NUMBER OF MUNICIPALITIES, AREA, POPULATION, AND NUMBER OF DWELLINGS, 1901 AND 1916 TO 1921.

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)
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	(c)	(c)	33,789	173,828
1919 ..	23	60,911	151,575	(c)	(c)	33,626	179,945
1920 ..	23	60,911	(e) 166,222	(e) 34,119	(e) 1,373	(e) 35,492	194,157
1921 ..	22	(d) 60,911	(e) 166,222	(e) 34,119	(e) 1,373	(e) 35,492	261,680

(a) Census figures, 1901. (b) Returns for thirty-nine municipalities only. (c) Not available. (d) The acreage of one municipality is included, which was dissolved on 30th June, 1921. (e) Census figures of 4th April, 1921.

Complete particulars of improved or unimproved capital value sare not available. In the year 1916 the capital value of ratable property in municipalities was £26,817,864; in 1917, £24,933,426; in 1918, £26,077,875; in 1919, £26,172,435; and in 1920, £26,280,406.

(iii) *Revenue and Expenditure of Municipalities.* The following table gives particulars as to the revenue and expenditure of municipalities during the years 1901 and 1916 to 1921 :—

WESTERN AUSTRALIA.—REVENUE AND EXPENDITURE OF MUNICIPALITIES, 1901 AND 1916 TO 1921.

Year ended the 31st October—	Revenue.				Expenditure.			
	From Rates.	From Govt. Grants.	From other Sources. (a)	Total.	Works and Improve-ments.	Disburse-ments in respect of Loans.	Other Expenses.	Total.
	£	£	£	£	£	£	£	£
1901 ..	78,022	66,860	82,246	227,128	111,241	23,809	79,365	214,415
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	75,036	135,617	327,784	538,487
1919 ..	177,408	3,595	377,421	558,424	71,907	135,448	351,365	558,720
1920 ..	190,171	1,142	471,859	663,172	95,194	147,396	423,233	665,823
1921 ..	250,356	710	531,589	782,655	132,011	156,123	461,547	749,681

(a) Including Loans raised during year and interest on Sinking Fund investments.

(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 1916 to 1921 :—

WESTERN AUSTRALIA.—ASSETS AND LIABILITIES OF MUNICIPALITIES, 1901 AND 1916 TO 1921.

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.	Outstand-ing Debts and Bonds.	Other Liabili-ties.	Total.
	£	£	£	£	£	£	£	£
1901 ..	37,259	214,984	42,311	13,432	307,986	321,000	19,762	340,762
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
1919 ..	41,806	1,426,270	372,163	127,532	1,967,776	1,738,568	85,361	1,823,929
1920 ..	36,087	1,456,109	335,692	133,610	2,011,498	1,745,908	90,688	1,836,596
1921 ..	64,687	1,514,671	403,879	100,264	2,089,501	1,782,471	107,836	1,890,307

(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 1916 TO 1921.

Year ended 30th June.	No. of Districts.	Area.	Revenue.				Expenditure.				Assets.	Liabi-lities.
			Rates.	From Govern-ment.	Other. (b)	Total.	Admin-istra-tion.	Works.	Other.	Total.		
			£	£	£	£	£	£	£	£	£	£
1901 (a)	93	975,808	8,293	36,011	6,580	50,884	6,833	45,303	3,935	56,071	18,339	2,441
1916 ..	113	975,827	104,315	24,397	38,820	167,562	24,903	114,343	27,094	166,340	226,335	114,841
1917 ..	117	975,828	113,686	30,226	55,383	199,295	26,335	126,316	36,526	189,177	256,245	137,994
1918 ..	116	975,830	116,245	32,594	46,187	195,026	27,969	139,514	38,682	206,165	265,033	149,127
1919 ..	118	975,825	118,144	27,692	53,748	199,584	29,591	132,276	42,245	204,112	272,441	173,002
1920 ..	118	975,825	135,644	53,234	68,902	257,780	31,722	152,172	59,471	243,365	280,621	191,823
1921 ..	119	975,825	149,904	39,172	85,659	274,735	36,891	179,317	69,008	285,216	307,521	219,660

(a) Year ended 31st December.

(b) Including Loans raised during the year and interest on Sinking Fund investments.

(vi) *Boards of Health.* On the 31st October, 1920, there were twenty-six Local Boards of Health within municipalities, and on the 30th June, 1920, 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 shews particulars of the receipts and expenditure of the various Boards—both municipal and extra-municipal—during the years 1901 and 1916 to 1921 :—

WESTERN AUSTRALIA.—RECEIPTS AND EXPENDITURE OF LOCAL HEALTH BOARDS, 1901 AND 1916 TO 1921.

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
1916 (a) ..	(g) 43,942	(h) 59,441	103,383	68,749	29,971	98,720
1917 (b) ..	(g) 42,967	(h) 56,488	99,455	67,830	31,056	98,886
1918 (c) ..	(g) 41,358	(h) 56,383	97,741	66,652	32,588	99,240
1919 (d) ..	(g) 40,781	(h) 59,174	99,955	74,390	36,970	111,360
1920 (e) ..	(g) 49,012	(h) 74,633	123,645	82,856	39,719	122,575
1921 (f) ..	(g) 57,194	(h) 75,827	133,021	89,709	41,691	131,400

(a) Exclusive of 8 inactive boards. (b) Exclusive of 10 inactive boards. (c) Exclusive of 8 inactive boards. (d) Exclusive of 9 inactive boards. (e) Exclusive of 11 inactive boards. (f) Exclusive of 14 inactive boards. (g) Including sanitary rates. (h) 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, 1911, 1918, 1919, and 1920.

(ii) *Annual Value, Revenue, and Expenditure of Municipalities.* The following table shews the annual value, total receipts, and expenditure of municipalities for the years 1916 to 1920 inclusive :—

TASMANIA.—ANNUAL VALUE, REVENUE AND EXPENDITURE OF MUNICIPALITIES, 1916 TO 1920.

Year.	Number of Municipalities.	Annual Value of Ratable Property.	Revenue.				Expenditure. (b)
			From Rates.	From Govt.	From other Sources. (a)	Total.	
		£	£	£	£	£	£
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
1919 ..	50	1,872,336	240,661	33,967	304,258	578,886	585,491
1920 ..	49 (c)	1,934,790	255,432	29,072	472,556	757,060	770,060

(a) Including sums derived from loans. (b) Including repayments of loans.
(c) New Town incorporated in Hobart.

According to the latest estimate made by the Commissioner of Taxes the capital value of ratable property in 1919 was £37,121,328.

(iii) *Total Revenue and Expenditure of Local Bodies.* 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 1916 to 1920 inclusive :—

TASMANIA.—REVENUE AND EXPENDITURE OF ALL LOCAL BODIES, EXCLUSIVE OF AMOUNTS CONTRIBUTED BY THE GENERAL GOVERNMENT, 1916 TO 1920.

Particulars.	1916.	1917.	1918.	1919.	1920.
(a) REVENUE.					
	£	£	£	£	£
Marine Boards	67,579	100,364	79,633	89,037	146,179
Municipalities	405,819	451,875	534,743	544,919	727,988
Cemetery Trusts	1,275	1,143	1,507	1,718	1,777
Water Trusts	2,365	2,865	2,669	3,458	(c) 1,647
Total	477,038	556,247	618,552	639,132	877,591
(b) EXPENDITURE.					
	£	£	£	£	£
Marine Boards	87,960	99,308	89,722	99,300	179,146
Municipalities	498,224	469,088	536,673	551,524	740,988
Cemetery Trusts	1,425	1,379	1,593	1,610	1,681
Water Trusts	1,813	1,753	2,246	2,894	(c) 1,574
Total	589,422	571,528	630,234	655,328	923,389

(a) Exclusive of amounts contributed by the general Government. (b) Exclusive of expenditure from Government contributions. (c) Not including Mt. Cameron Water-race controlled by Government (Receipts, £902; Expenditure, £829).

7. Northern Territory.—(i) *Municipality of Darwin*. The following particulars relate to the year 1921–22 :— Area 2,024 acres, population 1,000, number of occupied dwellings 228, and of other buildings 130. Revenue from general rates £2,826, from Government grants £1,560, total £4,386; expenditure £5,917.

(ii) *Bayot Road District*.—During the year 1921–22 the receipts amounted to £235 and the expenditure to £4, leaving (with a balance of £275 brought forward from the previous year) a balance in hand of £506.

§ 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 1917 to 1921 :—

SYDNEY WATERWORKS.—REVENUE, EXPENDITURE, AND CAPITAL COST, 1901 AND 1917 TO 1921.

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	48,137	3,873,913	23.67	5.25	131,892	23,319
1917 ..	468,537	177,977	7,769,200	37.98	6.03	306,198	— 15,638
1918 ..	523,979	195,448	8,472,700	37.30	6.18	343,716	— 15,185
1919 ..	627,288	219,322	8,900,391	34.96	7.04	377,885	30,081
1920 ..	664,975	291,618	9,584,723	43.85	6.93	433,170	— 59,813
1921 ..	855,751	347,298	10,323,252	40.58	8.28	473,889	34,564

(a) Rate increased from 6½d. to 7½d. in the £1 of the assessed annual value from 1st July, 1918, and from 7½d. to 9d. in the £1 from 1st July, 1920.

NOTE.—The minus sign (—) signifies loss.

SYDNEY WATERWORKS.—NUMBER OF GALLONS, HOUSES, AND POPULATION SUPPLIED, 1901 AND 1917 TO 1921.

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
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	44.79	106
1920 ..	212,046	1,060,230	48,021	17,527,753	226	45.29	142
1921 ..	221,886	1,109,430	48,496	17,701,000	218	43.71	128

(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 1917 to 1921 :—

SYDNEY SEWERAGE SYSTEMS.—REVENUE, EXPENDITURE, AND CAPITAL COST, 1901 AND 1917 TO 1921.

Year ended the 30th June.	Revenue. (a)	Working Expenses.	Capital Cost, exclusive of Items on which Interest is not charged.	Percentage of Expen- diture 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	44,257	3,110,633	35.32	4.02	107,047	— 26,014
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	283,661	— 1,436
1919 ..	497,406	151,951	6,963,573	30.54	7.14	291,347	54,108
1920 ..	512,621	202,360	7,124,813	39.47	7.26	328,239	— 17,978
1921 ..	615,615	229,441	7,329,632	37.27	8.39	341,674	44,500

(a) Rate increased from 11d. to 1s. in the £1 of the assessed annual value from 1st July, 1920.

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

SYDNEY SEWERAGE SYSTEMS.—NUMBER OF HOUSES DRAINED, POPULATION SERVED, AND LENGTH OF SEWERS, 1901 AND 1917 TO 1921.

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
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
1920 ..	145,304	726,520	1,161.94	63.73	503,362	1,096
1921 ..	148,923	744,615	1,196.96	53.73	514,536	1,122

(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 464 miles.

The capital debt of the Board to the Government at 30th June, 1920, in respect of water supply was £1,379,427. The expenditure on works under construction at 30th June, 1921, amounts to £610,233. This amount will not be capitalized until completion of works.

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 1917 to 1921 :—

PARTICULARS OF HUNTER DISTRICT WATER SUPPLY, 1901 AND 1917 TO 1921.

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
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	24,079	120,395	4,065	1,483,806
1920	97,469	88,488 ^a	24,864	124,320	4,319	1,580,905
1921	116,320	106,194	25,874	129,370	4,688	1,711,186

(a) Including £35,556, interest on capital debt, and £10,743, instalment to sinking fund for reconstruction of renewable works.

The average daily consumption of water for all purposes per inhabitant was 36.23 gallons during the year 1921 as against 34.74 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, 1921, about 147 miles of sewers, connecting with 12,218 separate properties, were under the control of the Board. For the financial year 1920-21 the revenue was £32,164 and the expenditure £46 584, the latter amount including a £5,249 instalment to the sinking fund for the reconstruction of renewable works. The capital debt of the Board to the Government at 30th June, 1921, in respect of sewerage was £555,513.

(iv) *Water Supply and Sewerage in Country Towns.* The works of country water supply and sewerage are now carried on under the Local Government Act 1919, as amended in 1920. The operation of Part XIV. of the Principal Act commenced on 1st September, 1920, and until that date the Country Towns Water Supply and Sewerage Acts remained in operation.

(a) *Waterworks.* Up to the 30th June, 1921, 59 country towns 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 as gazetted was £1,484,486, and the total sums payable annually for various periods ranging up to 100 years was £55,750, including interest ranging from 3½ per cent. to 4 per cent. per annum, 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 Acts, have

been deducted. It has recently been found necessary to increase the rate of interest from 4 to 5 per cent., and then $5\frac{1}{2}$ per cent. per annum. Under the present Local Government Act, the Government may from time to time fix the rate of interest which shall be payable upon the amount of capital debt remaining unpaid on these works, and may thereupon alter the instalments accordingly. 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. The water supply of Broken Hill with a loan expenditure of £481,795 was constructed under a special Act, and is 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 21 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, 1921, the capital debt of these systems was £571,905, the amount payable annually to the Government being £21,961. 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. Under the provisions of section 71 of the Melbourne and Metropolitan Board of Works Act 1915, however, and by consent of the Governor in Council given on 14th December, 1920, all land within thirteen miles of the General Post Office was included within the Metropolis for water supply and sewerage purposes. This land area consisted of 434 square miles, and on 31st December, 1921, comprised 18 cities, 3 towns, and 1 borough and part of another, also 1 shire and parts of 13 others, a total of 37 municipalities or portions thereof. Control for water supply purposes is also exercised by consent of the Governor in Council over other parts of certain municipalities outside the thirteen-mile radius, the Board supplying water to the Metropolitan Farm at Werribee, the outfall sewer area, and elsewhere. Various other shires also arrange for bulk supplies of water. The total estimated population served on the 31st December, 1921, was 802,831. The liability on Government loans on the 30th June, 1921, was £938,182, and for loans raised by the Board was £12,075,979. The Board is still empowered to borrow £125,773 before reaching the limit of its borrowing powers.

(a) *Total Cost of Water Supply and Sewerage.* The subjoined table shows the total cost of construction and maintenance of water supply and sewerage from 1853 to 1921 :—

MELBOURNE AND METROPOLITAN BOARD OF WORKS.—TOTAL COST OF CONSTRUCTION AND MAINTENANCE OF WATER SUPPLY AND SEWERAGE, 1853 TO 1921.

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	844,235
1919 to 1920	47,251	62,941	156,588	158,288	95,287	373,925	894,280
1920 to 1921	112,025	78,755	173,550	203,324	119,304	378,023	1,064,981
Total ..	5,080,342	1,764,610	4,449,780	8,080,570	1,378,531	6,591,983	27,345,816

(b) *Revenue and Expenditure of Melbourne and Metropolitan Board of Works.*
The following table shews the actual receipts and expenditure, and also the loan receipts and expenditure of the Board during 1901-2 and 1916-17 to 1920-21.

MELBOURNE AND METROPOLITAN BOARD OF WORKS.—REVENUE AND EXPENDITURE DURING EACH YEAR, 1901-2 AND 1916-17 TO 1920-21.

Particulars.	1901-2.	1916-17.	1917-18.	1918-19.	1919-20.	1920-21.
ORDINARY RECEIPTS.						
	£	£	£	£	£	£
Water supply	171,956	333,747	335,674	353,466	394,007	419,474
Sewerage, etc.	124,696	293,250	308,904	364,025	396,718	404,234
Live stock—Metropolitan farm ..	19,929	86,225	58,124	57,201	53,051	43,975
Interest { Water supply .. ..	..	1,593	1,053	826	1,707	1,021
{ Sewerage	17,448	11,131	8,514	7,525	9,509	8,737
Sinking Fund proceeds .. ..	..	..	30,275	..	..	..
Total	334,029	725,046	742,544	783,043	854,092	877,441

ORDINARY EXPENDITURE.						
General management	33,821	49,409	50,094	49,700	51,259	59,420
Live stock, etc.—Metropolitan farm ..	16,702	67,206	85,195	63,585	60,851	68,742
Maintenance { Water supply	22,205	38,452	39,024	39,580	60,542	67,131
{ Sewerage	24,396	45,208	61,332	56,221	62,149	78,037
Interest { Water supply	102,670	139,138	140,906	145,458	147,750	156,645
{ Sewerage	192,952	340,589	354,211	361,898	362,886	369,204
War expenditure: Safeguarding works, etc. .. ..	..	7,431	6,458	3,535	1,195	..
Patriotic Relief Funds, etc. .. ..	..	100	..	713	100	104
Sinking fund investment .. ..	..	..	..	30,000	5,036	4,813
Total	392,546	687,533	737,220	750,700	751,588	804,096

LOAN RECEIPTS.						
Water supply	1,636	8,062	3,482	2,720	4,712	7,016
Sewerage	88,425	44,926	42,673	47,339	53,973	47,769
Proceeds of loans	396,238	567,878	77,025	176,125	543,853	543,616
Miscellaneous .. ..	..	2,648	4,431	4,857	4,351	3,196
Total	486,299	623,514	127,611	231,041	606,889	601,597

LOAN EXPENDITURE.						
Water supply construction	17,058	39,764	23,569	35,237	55,937	119,744
Sewerage construction	410,760	154,743	182,431	191,012	205,516	257,240
Expenses in floating and redemption of loans	5,200	379,362	26,429	27,151	249,617	378,820
Miscellaneous	(a) 4,293	7,156	1,273	9,263	27,622	46,478
Total	428,725	581,025	233,702	262,663	538,692	802,282

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

(ii) *Melbourne Water Supply.* (a) *Development of System.* The following statement shews the development which has taken place in the water supply system of Melbourne during the 64 years since its inception :—

MELBOURNE WATER SUPPLY SYSTEM, 1857 TO 1921.

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
1921 (June 30)	802,831	5,080,342	1/-	6d.	1,783	47,135,608

(a) 31st December.

(b) 30th June.

On the O'Shanassy scheme up to 30th June, 1921, the sum of £479,751 has been expended.

(b) *Quantity of Water, Number of Houses, and Population Supplied.* The following table gives various particulars for the years 1901 and 1916 to 1921, shewing the increase in the supply of water in Melbourne and suburbs :—

MELBOURNE WATERWORKS.—NUMBER OF HOUSES, POPULATION, AND WATER SUPPLIED, 1901, AND 1917 TO 1921.

Year. Ended 30th June.	Number of Houses Served.	Estimated Population Supplied. (a)	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	492,253	28,732	10,487,007	274.8	58.4	} 6d. in the £	3,479,721
1917 ..	158,086	693,946	37,653	13,743,439	238.2	54.3		7,113,740
1918 ..	161,743	708,421	39,133	14,283,490	241.9	55.2		7,270,091
1919 ..	165,046	723,838	41,222	15,045,938	249.8	56.9		7,507,306
1920 ..	170,550	743,345	44,360	16,235,587	260.1	59.7		7,945,874
1921 ..	177,998	772,034	46,772	17,071,857	262.8	60.6		8,567,419

(a) 31st December of previous year.

(c) *Total Cost of Construction, Revenue, Expenditure and Net Profits, 1853 to 1921.* The following table shews the total cost of construction, the revenue, expenditure and net profits for various periods up to 30th June, 1921 :—

MELBOURNE WATERWORKS.—CONSTRUCTION COST, REVENUE, EXPENDITURE, AND NET PROFITS, 1853 TO 1921.

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
1919-20 ..	47,251	398,173	(k) 62,941	15.80	156,588	178,644
1920-21 ..	112,025	407,093	78,755	19.34	173,550	154,788
Total ..	5,080,342	10,301,757	1,764,610	..	4,449,780	4,087,367

(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 (£7,728). (h) Not including renewals (£4,545) and special War expenditure (£4,689). (i) Not including renewals (£3,693) and special War expenditure (£3,632). (j) Not including renewals (£4,189) and special War expenditure (£1,888). (k) Not including renewals (£6,343) and War expenditure (£552).

(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, 4,031 acres have been purchased, making the total area of the farm 12,878 acres at 30th June, 1921, its total cost to that date being £599,384. About 37,846,292 gallons of sewage had to be disposed of every 24 hours during the year 1920-21 in irrigating the fields. During the financial year 1920-21, 4,407 sheep were sold, the loss for the year being £1,305. Cattle to the number of 2,295 were sold, the profit for the year on cattle being £17,569.

(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 1916-17 to 1920-21 :—

MELBOURNE SEWERAGE WORKS.—TENEMENTS CONNECTED, CAPITAL COST, REVENUE, MAINTENANCE, AND WORKING EXPENSES, 1901-2 AND 1916-17 TO 1920-21.

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
1916-17 ..	148,395	7,424,163	289,512 (a)	25,586	315,098	53,099 (b)
1917-18 ..	151,622	7,580,074	298,053 (c)	29,346	327,399	65,534
1918-19 ..	155,238	7,718,958	341,053 (d)	38,847	379,900	69,777 (e)
1919-20 ..	158,735	7,877,246	362,136	46,921	409,057	75,094 (f)
1920-21 ..	161,955	8,080,570	388,252	22,925	411,177	94,302 (g)

(a) Rate reduced from 11d. to 10d. in the £. (b) Not including renewals (£3,790) and special War expenditure (£2,635). (c) Not including renewals (£3,402) and special War expenditure (£2,609). (d) Rate increased from 10d. to 11d. (e) Not including Renewals (£3,383) and special War expenditure (£1,564). (f) Not including renewals (£3,775) and special War expenditure (£553). (g) Not including renewals (£5,964.)

(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 of 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 1917 to 1921 :—

VICTORIA.—COUNTRY WATERWORKS UNDER TRUSTS AND MUNICIPAL CORPORATIONS, 1901 AND 1917 TO 1921.

Year.	Waterworks Trusts.				Municipal Corporations.			
	Number of Trusts.	Capital Cost.	Capital Indebtedness.	Current Interest Outstanding.	Number of Corporations.	Capital Cost.	Capital Indebtedness.	Current Interest Outstanding.
	No.	£	£	£	No.	£	£	£
1901 ..	76	823,418	748,089	(a)	24	(a)	470,041	(a)
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 ..	98	1,210,097	907,087	13,898	29	779,834	515,240	9,658
1920 ..	98	1,189,259	892,222	14,970	29	782,115	515,364	10,614
1921 ..	98	1,215,526	905,842	10,171	29	784,465	512,185	2,300

(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, 1921, was £827,776, the estimated population served 37,000, and the number of assessments 12,000. The revenue for the year amounted to £56,717.

3. Queensland.—(i) *The Metropolitan Water Supply 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. A construction order has been obtained for four additional filter beds, upon which work will commence in 1922.

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 was anticipated that this reservoir would be completed during the year 1921, but owing to unavoidable causes work was suspended during part of 1920 and 1921. Work was recommenced in October, 1921, and it is expected the reservoir will be finished by the end of 1922.

(b) *Brisbane Waterworks and Sewerage Works under Construction: Cost, Revenue, Expenditure and Interest.* The subjoined table gives particulars as to the total capital cost, the revenue and expenditure, the amount of interest and loan redemption during 1901 and each of the years 1917 to 1921 :—

**BRISBANE WATERWORKS AND SEWERAGE WORKS UNDER CONSTRUCTION.—
COST, REVENUE, EXPENDITURE, INTEREST, AND REDEMPTION OF LOANS,
1901 AND 1917 TO 1921.**

Year.	Capital Cost (including Sewerage Works from 1914).	Revenue from Rates and Sales of Water.	Working Expenses.	New Work Construction (including Sewerage Works from 1914).	Interest and Redemption of Loans.
	£	£	£	£	£
1901	694,973	60,120	17,462	7,535	42,426
1917	2,422,857	121,514	59,199	286,158	60,388
1918	2,683,846	134,121	65,653	259,132	64,039
1919	3,115,002	156,743	79,667	431,156	72,354
1920	3,661,580	216,620	94,070	546,578	88,033
1921	4,057,994	269,741	97,379	396,414	105,259

(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 1917 to 1921 :—

BRISBANE WATERWORKS.—PARTICULARS, 1901 AND 1917 TO 1921.

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
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
1920	505	40,266	193,160	3,293,061	8,997,436	46.58
1921	546½	42,408	206,685	3,360,747	9,207,527	44.54

The total length of the trunk mains is 115½ miles.

(d) *Sewerage Scheme.* The sewerage works now under construction comprise the main sewer, which is nearly completed from treatment works to North Quay; the effluent sewer and the treatment works, both of which are nearing completion; and the reticulation which was recommenced during the year. 79,102 lineal feet of main sewers, including a tunnel under the Brisbane river, and 15,094 lineal feet of reticulation sewers, including house connection branches, have been constructed, while 15,431 lineal feet of main sewers are under construction. 20,268 houses have now been surveyed.

(ii) *Country Towns Water Supply.* In addition to the City of Brisbane there were at the end of the year 1920 thirty towns in Queensland provided with water supply systems, constructed by municipalities chiefly from Government loans. The subjoined statement gives particulars of all the water supply systems exclusive of Brisbane, for the year 1920 :—

QUEENSLAND.—PARTICULARS OF COUNTRY WATER SUPPLY SYSTEMS, 1920.

Cost of Construction to 31st December, 1920—£1,027,663.

<i>Receipts.</i>			£	<i>Expenditure.</i>			£
Rates and Sales of water	..	..	120,347	Office and salaries	..	..	19,490
Other (a)	..	..	17,110	Construction	..	..	18,361
				Maintenance	..	..	44,345
				Interest and redemption	..	..	32,026
				Other expenses	..	..	32,932
Total receipts	..	..	137,457	Total	..	..	147,154
Assets	..	..	805,575	Liabilities	..	..	595,954

(a) Including £12,150 from Government loans.

4. *South Australia.*—(i) *Adelaide Water 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, 1921, was £2,768,769, the total revenue being £3,721,193, and the area served approximately 106,465 acres.

The following table gives various particulars relating to the water supply of Adelaide for the years 1917 to 1921, inclusive :—

ADELAIDE WATER SUPPLY.—LENGTH OF MAINS, REVENUE, EXPENDITURE, AND CONSUMPTION OF WATER, 1917 TO 1921.

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.
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	126,110	36,142	89,968	4.33	5,292
1920	947	137,488	43,410	94,078	4.33	5,626
1921	990	177,722	52,378	125,344	4.53	5,179

(a) In the Adelaide Water District there are no governing meters. The quantities shewn 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 368 miles of sewers had been laid in the city and suburbs up to the 30th June, 1921.

The following table gives particulars relating to the Adelaide sewerage system for the years 1917 to 1921 inclusive :—

ADELAIDE SEWERAGE SYSTEM.—REVENUE AND EXPENDITURE, 1917 TO 1921.

Year ended the 30th June.	Revenue.			Expenditure.			Net Revenue.	
	Rates and Interest.	Sewage Farm. Sales of Produce, etc.	Total.	Maintenance.	Sewage Farm. Working Expenses.	Total.	Total.	Percentage on Capital Cost.
	£	£	£	£	£	£	£	%
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
1920 ..	65,744	20,332	86,076	13,396	10,650	24,046	62,030	7.21
1921 ..	74,582	12,601	87,183	16,222	12,365	28,587	58,596	6.55

The seaside town of Glenelg is served by separate sewage disposal works, including a pumping station, septic tank, lucerne plots, and filter beds. The capital cost of this system at 30th June, 1921, was £47,734, and the year's working resulted in a loss of £469, due to heavy expenditure in repairing a large break in the main sewer. Up to the same date 16½ miles of sewers had been laid.

The city of Port Adelaide has a sewerage system under which the sewage is pumped to the Sewage Farm. The capital cost of this work at 30th June, 1921, was £324,786. The revenue received for the year ended 30th June, 1921, was £7,673, the working expenses £6,205, leaving a net revenue of £1,468, representing 0.45 per cent. on capital cost. The length of sewers laid at the above date was 43½ miles.

(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 Goldfields Water Supply Undertaking. (b) Mines water supplies, boring and well-sinking in mining districts. (c) Water supplies, sewerage, well-sinking, boring, etc., in agricultural districts. (d) Town water supplies. (e) Irrigation. (f) Land drainage.

(ii) *The Metropolitan Water Supply, Sewerage and Drainage Department.*—(a) *Water Supply.* The Metropolitan Water Supply Works were first opened by a private company in October, 1890. Under the provisions of the Metropolitan Waterworks Act 1896, however, the works were purchased by the Government at a cost of £220,000, and were placed under the control of a Board, the functions of which were exercised from 1904 to 1909 by the Minister for Works. By the Metropolitan Water Supply, Sewerage and Drainage Act 1909, all water and sewerage works formerly vested in the Metropolitan Board were transferred to a Minister of Water Supply, Sewerage and Drainage. In August, 1912, the administration was transferred to the Water Supply Department. In April, 1918, it was separated from the Water Supply Department, and in 1921 it was created a separate Department. The supply of water is derived from five sources—(I.) the Victoria Reservoir, (II.) Bickley Brook pipehead dam, (III.) the Mundaring Reservoir, (IV.) Narrogin Brook, and (V.) artesian bores. For the year ending 30th June, 1921, the total consumption of water was 2,292 million gallons, exclusive of water supplied to railways from Walters Brook, Victoria Reservoir, and Narrogin Brook—an increase of 67 millions over the previous year. The number of services at that date was 34,740, and the length of mains was 633 miles.

(b) *Financial Operations of Metropolitan Water Supply Department.* The following table gives particulars of the financial operations of the Metropolitan Water Supply Department for each year ending the 30th June from 1917 to 1921 inclusive :—

METROPOLITAN WATER SUPPLY DEPARTMENT.(a)—PARTICULARS OF FINANCIAL OPERATIONS, 1917 TO 1921.

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.
	£	£	£	£	£	%
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
1920	1,119,910	270,498	849,412	96,881	44,829	46.27
1921	1,223,951	305,696	918,255	113,439	54,468	48.02

(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 1917 to 1921 inclusive :—

METROPOLITAN WATER SUPPLY DEPARTMENT.—CONSUMPTION OF WATER, 1917 TO 1921.

Year.	Average Daily Supply in ,000 Gallons.			Water Supply for Years in ,000 Gallons.			Number of Houses Supplied.	Estimated Population Supplied.	Average Daily Supply.	
	From Reservoirs.	From Bores.	Total.	From Reservoirs.	From Bores.	Total.			Per House.	Per Head of Population.

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

							No.	No.	Gals.	Gals.
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	38.9
1920	2,467	3,659	6,126	903,072	1,339,364	2,242,436	34,570	165,900	174	36.3
1921	2,438	3,900	6,338	889,723	1,423,705	2,313,428	35,558	170,680	175	36.5

ARMADALE DISTRICT.

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
1920	37	..	37	(a) 13,342	(b) 322	13,664	107	514	350	72.8
1921	37	..	37	13,614	Nil	13,614	108	518	345	71.8

(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, 1921, 14,254 houses had been connected with the sewers. The revenue of the Sewerage and Drainage undertaking for 1920–21 was £61,961, as against £59,628 for the preceding year. The maintenance and management expenditure for the year amounted to £16,783, and interest and sinking fund charges to £49,218.

(iii) *Goldfields Water Supply Undertaking.* During the financial year 1920–21, the amount of water drawn for the Helena reservoir was 1,383,000,000 gallons, an increase on the previous year of 39,000,000 gallons. The gross revenue was £187,010, and the working expenses £106,925, leaving a surplus available towards interest and sinking fund of £80,085. The outlay for interest and sinking fund charges in respect of supplementary capital absorbed £35,332, leaving £44,753, 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 £124,060. Reticulation figures are as follows:—Towns reticulation, 239 miles; supply mains to towns, 80 miles; supply mains to mining centres, 66 miles; agricultural extensions, 483 miles; total mains, including main conduit, 1,219.

(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, Derby, Dandin, Geraldton, Leonora, Meekatharra, Ora Banda, and Pingelly. Water supplies for Albany, Broome, Bunbury, Busselton, Carnarvon, 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 Chief Engineer for Water Supply number about 1,400, and are spread over an area of nearly 500,000 square miles. The principal works carried out by the Water Supply Department 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.

(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 2,574 shallow bores put down, fresh water was obtained in 432, and stock water in 228, the others being salt or dry. The number of tanks excavated to 30th June, 1921, was 365; in addition, one tank was enlarged, making a total approximate capacity of 133,824,000 gallons, and the number of wells sunk 303. The capital expenditure for the financial year ending June, 1921, was £12,273.

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

6. *Tasmania.*—(i) *Hobart Water Supply.* The total capital cost to 31st December, 1921, was £369,401, but a considerable amount of reticulation work has been done out of revenue and not charged to capital account. The outstanding loans at 31st December, 1921, amounted to £317,805. At the same date the number of tenements supplied in the

city and suburbs was 9,350, the population 43,905, and the length of reticulation mains 97 miles. The revenue and expenditure for the years 1916 to 1921 were as follows :—

HOBART WATERWORKS.—REVENUE AND EXPENDITURE, 1916 TO 1921.

Particulars.	1916.	1917.	1918.	1919.	1920.	1921.
	£	£	£	£	£	£
Revenue	24,801	21,677	24,160	26,832	28,287	30,671
Expenditure	27,676	28,794	26,490	27,468	30,696	33,773

(ii) *Hobart Sewerage System.* Up to 31st December, 1921, 75 miles of sewers had been laid at a cost of about £197,504, and 7,351 tenements had been connected. The revenue for the year was £17,811. 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 well in hand. The laying of the outfall sewer is now being proceeded with. In connexion with the Queensborough District, now being sewerage, 12½ miles of sewers were laid up to 31st December, 1921, at a cost with outfall of £75,420, and 170 tenements were connected.

§ 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 1917 TO 1921.

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
1917..	252,044	29,095	230,841	511,980	165,586(c)	8,598,939	330,954	15,440
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(c)	8,691,972	336,823	102,178
1920..	323,306	22,398	312,609	658,313	206,450(c)	8,959,887	353,037	98,826
1921..	429,986	43,577	323,648	797,211	244,764(c)	9,449,213	438,210	114,237

(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 1917 TO 1921.

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
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
1920 ..	1,345,287	37,140	6.62	42,292	25,547	127.95
1921 ..	1,487,129	43,339	6.99	43,152	27,792	154.57

3. *The Melbourne Harbour Trust.*—(i) *Construction and Development.* Particulars of the origin and constitution of this Trust will be found in Official Year Book No. 12, pp. 970 *et seq.* Since the publication of that volume, the port and harbour have been developed by the extension of existing works and the construction of new piers, wharves, etc. The river has been considerably widened throughout almost its whole navigable course, and has now three swinging basins. The depth at low water has been increased to 27 feet. Further widening and deepening are being carried out, and additional sheds are being erected. Extensive shed accommodation is provided on the Victoria Dock wharves (including the Central Pier) and on the river wharves. The total length of sheds in the Port is 18,368 feet, covering an area of 1,085,295 square feet. The quantity of material raised by the dredging and excavation done in the improvement of the river and bay amounts to 71,000,000 cubic yards. During the ten years ending 31st December, 1921, the average cost of dredging per cubic yard was 2.71 pence and the cost of towing and depositing 4.07 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 2,500,000 cubic yards.

(ii) *Financial Operations.* The following table gives particulars of the revenue and expenditure of the Trust from 1917 to 1921 inclusive :—

MELBOURNE HARBOUR TRUST.—REVENUE AND EXPENDITURE, 1917 TO 1921.

Particulars.	1917.	1918.	1919.	1920.	1921.
REVENUE.					
Rates, rents, etc.	£ 312,654	£ 314,777	£ 323,253	£ 380,203	£ 491,677
Interest	31	123	193	46	42
Other receipts	7,610	10,691	10,851	10,253	9,718
Total	320,295	325,591	334,297	390,502	501,437

MELBOURNE HARBOUR TRUST.—REVENUE AND EXPENDITURE,
1917 TO 1921—*continued.*

Particulars.	1917.	1918.	1919.	1920.	1921.
EXPENDITURE.					
	£	£	£	£	£
Management and general expenses ..	49,205	45,373	45,570	51,178	57,226
Interest	93,996	95,980	104,245	106,735	114,860
Total	143,201	141,353	149,815	157,913	172,086
Less standing charges added to works ..	19,632	23,595	23,495	29,150	30,892
F Total	123,569	117,758	126,320	128,763	141,194
Wharfage and other refunds ..	1,378	2,382	1,677	2,529	3,064
Consolidated revenue of Victoria ..	60,000	62,305	62,460	75,554	96,224
Flotation of loan expenses ..	1,005	3,012	7,956	300	29,525
Redemption of loans expenses ..	..	2,392	4,499	..	615
Maintenance	70,112	35,706	77,766	105,147	120,412
Total expenditure	256,064	223,555	280,678	312,293	391,034
Surplus on revenue account	64,231	102,036	53,619	78,209	110,403
Less depreciation and renewals account and sinking fund	51,747	52,000	52,500	52,500	65,000
Net surplus on revenue account	12,484	50,036	1,119	25,709	45,403

CAPITAL EXPENDITURE.

	£	£	£	£	£
Land and property	588	1,153	964	3,221	2,420
Deepening waterways	50,871	108,037	68,746	80,720	81,699
Wharves construction	62,246	37,321	77,305	50,084	79,206
Approaches construction	6,201	11,417	3,774	2,364	1,565
Other harbour improvements	26,923	7,352	3,068	2,936	14,099
Floating plant	3,814	811	1,435	834	2,957
General plant	1,728	130	509	883	991
Stock account	4,686	..	..	..	..
Total	157,057	166,221	155,801	141,042	182,937

4. Geelong Harbour Trust.—To the 31st December, 1921, this Trust had borrowed £591,000. The sinking fund at the same date stood at £28,667. The revenue receipts for the year 1921 were £49,636, and the disbursements £53,605.

5. Bundaberg Harbour Board.—The Harbour Board consists of eight members, representing the district shire councils and the shipowners and exporters, with one Government nominee. The revenue for 1921 amounted to £4,281, as against £4,838 for 1920; the expenditure for 1921 was £4,001, as compared with £5,834 for 1920. Dredging resulted in 23,500 tons of silt, etc., being lifted and deposited at sea.

6. Cairns Harbour Board.—For the year ended 31st December, 1921, the receipts from harbour and berthage dues and miscellaneous items amounted to £32,694, while the revenue from taxes and fixed rates was £31,111. The total income amounted to £37,922.

7. Rockhampton Harbour Board.—For the year 1921 the receipts were £29,136, including loan advances, £7,599; and the expenditure was £28,995, including £5,790. interest on loans.

8. Bunbury (Western Australia) Harbour Board.—The Board was constituted in 1909, and consists of five members appointed by the Government. The jetty (including new extension of 700 feet) is 2,850 feet long, and can accommodate nine or ten vessels. The depth of water alongside ranges from 18 to 29 feet. Electric and steam gantry cranes are available. Water is laid on for shipping, and the jetty is lighted by electricity. The capital expenditure to 30th June, 1921, was £417,611. The revenue for the year was £28,980, and the expenditure £8,843, the balance being paid into Consolidated Revenue to meet interest and sinking fund.

9. Fremantle Harbour Trust.—For the year ended 30th June, 1921, the total revenue of the Fremantle Harbour Trust was £301,965, and the expenditure £133,909. The gross amount paid to the Treasury for the year was £170,469, being interest £77,240, sinking fund £19,819, renewals fund £2,000, and surplus revenue £71,410.

10. Burnie (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 three timber wharves, 600 feet, 500 feet, and 400 feet long. The revenue for the year 1921 was £13,441, and the expenditure £5,823, including £1,500 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 £96,350. The interest paid in 1921 amounted to £4,140, and the contributions to sinking fund, £1,260. The receipts and expenditure of the Board for the last five years were as follows :—

HOBART MARINE BOARD.—RECEIPTS AND EXPENDITURE, 1917 TO 1921.

Year.	Receipts.			Expenditure.		
	General.	Harbour Improvements, Debentures, etc.	Total.	General.	Harbour Improvements.	Total.
	£	£	£	£	£	£
1917	17,294	6,627	23,921	(a) 17,247	5,212	22,459
1918	20,046	3,775	23,821	(b) 20,887	3,131	24,018
1919	21,505	367	21,872	20,303	108	20,411
1920	30,584	4,568	35,152	27,392	3,859	31,251
1921	30,055	..	30,055	(c) 34,870	1,080	35,950

(a) Including £938 transferred from General Account to Harbour Improvements. (b) Including £3,775 transferred from General Account to Harbour Improvements. (c) Including £6,000 debentures purchased.

12. Launceston Marine Board.—The total capital debt on 31st December, 1921, was £303,861, of which £256,822 was incurred on the Tamar Improvement Scheme. The revenue for 1921 was £44,421 and the expenditure £45,688.

§ 5. Fire Brigades.

1. **New South Wales.**—(i) *Legislation.* Under the Fire Brigades Act of 1909, a Board of Fire Commissioners for New South Wales, consisting of five members, was formed and fire districts established. The cost of maintenance of fire brigades is borne in equal proportions by the Government, the municipalities, and the insurance companies concerned, but the expenditure must be so regulated that the proportion payable by the councils in a fire district must not exceed the amount obtainable from a farthing in the pound rate on the unimproved capital value of the district.

(ii) *Receipts and Disbursements of Board of Fire Commissioners of New South Wales.* The subjoined table shows 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, 1917 TO 1921.

Year.	Receipts.						Disbursements.
	From Government.	From Municipalities.	From Fire Insurance Companies.	From Firms.	From other Sources.	Total.	
	£	£	£	£	£	£	£
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
1920	47,808	47,808	47,218	589	3,815	147,238	143,262
1921	54,355	54,355	53,820	535	6,457	169,522	163,528

The Sydney fire district includes the City of Sydney and suburbs, comprising a total area of 258 square miles. On the 31st December, 1921, the Board had under its control in this district 66 stations, 315 permanent men, 167 partially-paid firemen, 3 steam and 59 motor fire engines, 15 horses, 140,690 feet of hose, and 538 telephone fire-alarms. The length of wire used for telephone lines was 1,281 miles.

2. **Victoria.**—(i) *Legislation.* The Fire Brigades Act of 1915 provides for a Metropolitan Fire Brigades Board, and a Country Fire Brigades Board, each consists of nine members, with local committees in country districts. The income of each Board is derived in equal proportions from the Treasury, the municipalities, and insurance companies.

(ii) *Metropolitan Fire Brigades Board.* On the 30th June, 1921, this Board had under its control 41 stations, 270 permanent men, 130 partially-paid firemen, 50 special service firemen, 6 motor drawn steam fire engines, 8 petrol motor fire pumps, 57 other petrol motor appliances, 2 steam fire engines, 98,635 feet of hose, and 354 fire-alarm circuits having 1,073 street fire alarms, 1,038 containing telephones.

The following table gives particulars as to the financial operations of the Board during each year from 1916 to 1920-21 inclusive :—

VICTORIA.—REVENUE AND EXPENDITURE OF METROPOLITAN FIRE BRIGADES BOARD, 1916 TO 1920-21.

Particulars.	1916.	1917-18.	1918-19.	1919-20.	1920-21.
ORDINARY RECEIPTS.					
	£	£	£	£	£
Contributions	86,771	84,418	85,569	95,225	117,893
Receipts for services ..	7,595	6,645	7,197	9,651	10,807
Interest and sundries ..	4,110	1,960	2,766	3,593	11,797
Total	98,476	93,023	95,532	108,469	140,497
ORDINARY EXPENDITURE.					
	£	£	£	£	£
Salaries	55,612	58,900	60,915	67,060	85,537
Interest and sinking fund ..	13,397	13,610	14,971	12,970	14,100
Other expenditure	24,566	25,057	20,968	26,963	41,859
Total	93,575	97,567	96,854	106,993	141,496

(iii) *The Country Fire Brigades Board.* At the end of the year 1921 there were 113 municipal councils and 77 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 135 registered brigades and 2,429 registered firemen at the end of the year 1921.

For the year 1921 the receipts of the Country Fire Brigades Board amounted to £19,995, and the expenditure to £20,353.

3. *Queensland.*—(i) *Legislation.* The Act of 1920 makes provision for the retention of existing fire districts, and for the constitution of new districts. For each district there must be a Fire Brigade Board consisting of seven members, and the cost of maintenance of each brigade is proportioned as follows :—The Treasurer two-sevenths, insurance companies three-sevenths, and local authorities two-sevenths. All volunteer fire brigades must be registered.

(ii) *Revenue, Expenditure, etc., of Fire Brigade Boards.* In the year 1921 there were twenty-seven brigades organised in towns in Queensland, and the following table gives particulars of revenue and expenditure for the year 1921 :—

QUEENSLAND.—FIRE BRIGADES, 1921.

Receipts.	Amount.	Expenditure.	Amount.
	£		£
From Government	14,637	Salaries and wages	31,513
„ Local authorities	14,524	Building, repairs, etc.	3,866
„ Insurance companies	22,313	Plant, stores, clothing, etc.	8,856
„ Other sources	3,211	Other	11,028
Total	54,685	Total	55,263

At the end of the year 1921 the fire brigades staffs comprised 112 permanent men, 261 partially paid, and 85 volunteers. The seven brigades in the Metropolis were amalgamated in July, 1921, and placed under the control of the Metropolitan Fire Brigades Board. They protect an area of 32 square miles, and their joint staffs comprise 136 men. They have 3 steam engines, 6 motor turbines, 16 reels, consisting of 4 horse, 8 motor, and 4 hand reels, and 37,873 feet of hose. There are 228 call points.

4. *South Australia.*—(i) *Legislation.* The Fire Brigades Act of 1913 provides for a Board of five members, and the expenses of maintenance of brigades are defrayed as to three-ninths by the Treasury, four-ninths by insurance companies, and two-ninths by the municipalities concerned.

(ii) *Fire Brigades Board.* The revenue of the Fire Brigades Board in 1921 amounted to £35,817. 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, Tanunda, Balaklava, and Burra. The strength of the brigades consists of 101 permanent firemen and 53 auxiliary firemen. The plant consists of 5 steam fire engines, 1 motor engine, 18 motor hose carriages, 1 floating fire engine, 4 hose reels, and 9 horses. The number of calls received during the year 1921 was 411, of which 18 were to fires of a serious nature. Of the total calls, 223 were in the metropolitan district.

5. *Western Australia.*—(i) *Legislation.* Under the 1916 Act every municipal or road board district is constituted a fire district under the control of the Western Australian Fire Brigades Board. The income of the Board is derived as to two-eighths from Government, three-eighths from municipalities, and three-eighths from insurance companies.

(ii) *Western Australian Fire Brigades Board.* The receipts of the Western Australian Fire Brigades Board for the year 1921 amounted to £40,745, and the expenditure to £36,109. The whole of the brigades throughout the State are now controlled by this Board, and number two permanent, nine permanent and partially paid, six permanent and volunteer, and twenty-four purely volunteer brigades; making a total of forty-one. The staff includes a chief officer, deputy chief officer, third officer, motor engineer, electrical engineer, 7 other officers, 70 permanent firemen, 31 partially-paid firemen, and 573 volunteer firemen.

6. *Tasmania.*—The municipal council of any municipality may, under the Act of 1920, petition the Governor to proclaim the municipality or any portion of it to be a fire district, each district to have a Board of five members. The expenses of each Board are borne in equal proportions by contributions from the Treasurer, municipalities concerned, and insurance companies insuring property within the district. The expenditure for the year 1921 for the Hobart Fire Brigade Board amounted to £4,581.

§ 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 follows: New South Wales: for the calendar year 1920. Victoria: 30th September, 1920, except Melbourne, 31st December, and Geelong, 31st

August, 1920. Queensland : calendar year 1920. South Australia : Corporations, 30th November, and district councils, 30th June, 1920. Western Australia : 31st October, 1920, except road districts, 30th June, 1920. Tasmania : calendar year 1920.

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, 1920.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	C'wealth.
No. of local authorities(a) ..	321	193	170	184	141	49	1,058

RECEIPTS.

	£	£	£	£	£	£	£
Rates—							
General ..		1,750,778	931,488	295,638	241,584	74,498	
Other (b) ..		361,899	384,858	118,421	183,468	180,934	
Government grants	5,637,478	74,563	303,664	201,146	54,376	29,072	13,233,531
Loans (c) and other sources ..		1,037,723	264,867	192,996	441,524	472,556	
Total ..	5,637,478	3,224,963	1,884,877	808,201	920,952	757,060	13,233,531

EXPENDITURE.

	£	£	£	£	£	£	£
Works, services, etc.		2,086,339	1,393,256	638,310	536,458	420,110	
Interest on loans and overdrafts		264,147	28,897	15,535	88,022	90,240	
Redemptions, sinking funds, etc. ..	5,542,717	128,664	48,370	16,084	72,870	199,010	13,054,928
Administration ..		246,851	187,306	82,180	84,733	45,931	
Other ..		378,118	248,626	70,230	127,105	14,769	
Total ..	5,542,717	3,104,119	1,906,455	822,389	909,188	770,060	13,054,928

VALUATIONS.

	£	£	£	£	£	£	£
Capital value of property ..	229,858,034	399,502,745	66,325,130	104,291,322	26,280,406	38,736,226	9864,993,863
Annual value of property ..	(e)	21,214,708	(e)	5,239,194	1,550,154	1,934,790	(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, 1920.—The following table gives particulars for each State of loans raised by local authorities during the year 1920, of loans current at the end of that year, of liability on account of interest and sinking fund, and of loans maturing during 1920 :—

PARTICULARS OF LOANS RAISED BY LOCAL AUTHORITIES, 1920.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	C'wealth.
	£	£	£	£	£	£	£
Loans from general Government—							
Raised during year ..	..	26,162	297,604	..	..	7,619	331,385
Current at end of year ..	..	1,401,623	756,531	..	46,369	491,961	2,696,484
Loans from other sources—							
Raised during year ..	1,545,574	249,546	..	28,476	81,404	251,486	2,156,486
Current at end of year ..	9,854,639	3,790,446	1,010,488	379,440	1,839,724	1,491,552	18,396,289
Total—							
Raised during year ..	1,545,574	275,708	297,604	28,476	81,404	259,105	2,487,871
Current at end of year ..	9,854,639	5,192,069	1,797,019	379,440	1,886,093	1,983,513	21,092,773
Current loans, exclusive of those obtained from general Government, raised within the Commonwealth ..	9,336,739	3,790,446	(a)	379,440	1,382,724	..	(a)
Annual liability on account interest ..	398,150	(a)	29,427	18,028	87,084	111,287	(a)
Total sinking fund at end of year ..	951,261	492,430	(a)	25,592	356,004	193,451	(a)
Amount of loans maturing during year—							
Redeemed	(a)	125,068	49,314	18,308	54,014	213,387	(a)
Renewed	(a)	(a)	(a)	..	..	..	(a)

(a) Not available.