

SECTION XXVI.

LOCAL GOVERNMENT.

§ 1. Introduction.

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

Limits of space preclude the incorporation of information regarding the constitution etc., of municipal and other bodies contained in the publication referred to except in cases where fresh 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 1919 being 183,530 square miles, of which 180,708 square miles are comprised within shires and 2,822 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 183 municipalities in New South Wales at the end of 1919; 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 shews the improved capital value, the area, population, number of buildings, and amount of rates levied in municipalities for the years 1901 and 1915 to 1919 :—

NEW, SOUTH WALES.—MUNICIPALITIES, IMPROVED CAPITAL VALUE, AREA, POPULATION, NUMBER OF BUILDINGS, AND TOTAL RATES LEVIED, 1901 AND 1915 TO 1919.

| 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 | 88,118,600 | 91,220 | (b) 487,000 | 94,907 | 277,457 | 36,429,600 | 1,732,302 | 371,330 | 73,862 | 127,564 |
| 1915 | 189,778,544 | 95,259 | 748,940 | (c) | 1,076,885 | 57,949,558 | 1,769,155 | 456,000 | (c) | 464,511 |
| 1916 | 176,059,305 | 95,259 | 750,260 | (c) | 1,153,987 | 59,422,910 | 1,742,275 | 446,800 | (c) | 485,104 |
| 1917 | 183,469,822 | 95,259 | 762,480 | (c) | 1,124,590 | 62,055,080 | 1,742,275 | 453,800 | (c) | 516,816 |
| 1918 | 188,674,508 | 95,259 | 777,140 | (c) | 1,165,839 | 63,368,253 | 1,710,675 | 463,500 | (c) | 542,700 |
| 1919 | 194,495,477 | 95,259 | 811,910 | (c) | 1,306,394 | 66,059,272 | 1,710,475 | 482,860 | (c) | 586,256 |

(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 1915 to 1919 inclusive :—

NEW SOUTH WALES.—MUNICIPALITIES, UNIMPROVED AND IMPROVED CAPITAL VALUES, 1915 TO 1919.

| Year. | Sydney. | Suburbs. | Metropolis. | Country. | Total. |
|--------------------------|------------|-------------|-------------|------------|-------------|
| UNIMPROVED VALUE. | | | | | |
| | £ | £ | £ | £ | £ |
| 1915 | 27,226,283 | 33,403,223 | 60,629,506 | 22,843,195 | 83,472,701 |
| 1916 | 31,168,904 | 34,719,417 | 65,888,321 | 23,378,626 | 89,266,947 |
| 1917 | 31,130,368 | 36,808,755 | 67,939,123 | 24,350,474 | 92,289,597 |
| 1918 | 31,880,295 | 38,176,261 | 70,056,556 | 24,629,668 | 94,686,224 |
| 1919 | 31,831,054 | 39,672,190 | 71,503,244 | 25,289,371 | 96,792,615 |
| IMPROVED VALUE. | | | | | |
| 1915 | 78,580,300 | 91,198,244 | 169,778,544 | 57,949,558 | 227,728,102 |
| 1916 | 80,264,720 | 96,394,785 | 176,659,505 | 59,422,910 | 236,082,415 |
| 1917 | 81,976,260 | 101,493,562 | 183,469,822 | 62,055,080 | 245,524,902 |
| 1918 | 82,027,200 | 106,647,308 | 188,674,508 | 63,368,253 | 252,042,761 |
| 1919 | 82,808,760 | 111,686,717 | 194,495,477 | 66,059,272 | 260,554,749 |

(b) *Revenue.* The following table gives particulars of the revenue of municipalities for the year ending 31st December, 1919 :—

NEW SOUTH WALES.—MUNICIPALITIES, REVENUE, 1919.

| Particulars. | Sydney. | Suburbs. | Country. | Total. |
|------------------------------------|---------------|-----------|-----------|---------------|
| | £ | £ | £ | £ |
| General fund | 1,483,810 (a) | 865,760 | 618,550 | 1,484,310 (b) |
| Trading accounts | | .. | 210,028 | 210,028 (b) |
| Special and local funds | | 71,807 | 361,092 | 432,899 (b) |
| Loan funds | | 74,301 | 74,576 | 148,877 (b) |
| Reserve and Renewals Account | | 156 | 6,759 | 6,915 (b) |
| Gross revenue | 1,483,810 (a) | 1,012,024 | 1,271,005 | 3,766,839 |

(a) Items of revenue and expenditure for the City of Sydney cannot be allocated to the different headings shewn for municipalities. (b) Exclusive of Sydney.

(c) *Expenditure.* The following table gives particulars of expenditure of municipalities for the year ending 31st December, 1919 :—

NEW SOUTH WALES.—MUNICIPALITIES, EXPENDITURE, 1919.

| Particulars. | Sydney. | Suburbs. | Country. | Total. |
|------------------------------------|---------------|----------|-----------|---------------|
| | £ | £ | £ | £ |
| General fund | 1,454,277 (a) | 881,696 | 627,660 | 1,509,356 (b) |
| Trading accounts | | .. | 175,672 | 175,672 (b) |
| Special and local funds | | 63,069 | 355,727 | 418,796 (b) |
| Loan funds | | 40,960 | 66,786 | 107,746 (b) |
| Reserve and renewals account | | 2,160 | 2,708 | 4,868 (b) |
| Gross expenditure | 1,454,277 (a) | 987,885 | 1,228,553 | 3,670,715 |

(a) See note (a) to preceding table. (b) See note (b) to preceding table.

(d) *Assets and Liabilities.* The financial position of the municipalities as at the 31st December, 1919, is shewn by the following statement of assets and liabilities of the various funds :—

NEW SOUTH WALES.—MUNICIPALITIES, ASSETS AND LIABILITIES, 1919.

| Particulars. | Sydney. | Suburbs. | Country. | Total. |
|-------------------------------|----------------|-----------|-----------|---------------|
| <i>Assets—</i> | £ | £ | £ | £ |
| General fund | 11,578,854 (a) | 454,640 | 561,387 | 1,016,027 (b) |
| Trading accounts | | .. | 251,379 | 251,379 (b) |
| Special and local funds .. | | 54,570 | 1,904,682 | 1,959,252 (b) |
| Loan funds | | 165,348 | 652,805 | 818,153 (b) |
| Reserves and renewals account | | 1,138 | 28,660 | 29,798 (b) |
| Total | 11,578,854 (a) | 675,696 | 3,398,913 | 15,653,463 |
| <i>Liabilities—</i> | | | | |
| General fund | 11,122,589 (a) | 266,534 | 133,952 | 400,486 (b) |
| Trading accounts | | .. | 107,192 | 107,192 (b) |
| Special and local funds .. | | 12,831 | 1,704,699 | 1,717,530 (b) |
| Loan funds | | 790,979 | 639,185 | 1,430,164 (b) |
| Reserves and renewals account | | 1,138 | 28,613 | 29,751 (b) |
| Total | 11,122,589 (a) | 1,071,482 | 2,613,641 | 14,807,712 |

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

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

(iii) *Shires.* The total area of the 136 shires constituted under the new system is 180,703 square miles, and the population on the 31st December, 1919, was 692,230.

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 1919 was £110,881,306, 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 1919 was £763,356.

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

NEW SOUTH WALES.—INCOME OF SHIRES, 1915 TO 1919.

| Particulars.(a) | 1915. | 1916. | 1917. | 1918. | 1919. |
|--|-----------|-----------|-----------|-----------|-----------|
| <i>General Fund—</i> | £ | £ | £ | £ | £ |
| General rates (including interest) | 612,612 | 633,973 | 672,473 | 710,983 | 742,026 |
| Government endowment .. | 163,211 | 143,259 | 151,446 | 162,188 | 153,234 |
| Public works | 192,319 | 205,277 | 167,696 | 157,737 | 230,673 |
| Health administration .. | 4,620 | 4,087 | 3,987 | 3,865 | 13,731 |
| Public services | 9,711 | 11,162 | 10,682 | 11,487 | 12,481 |
| Shire property | 12,512 | 12,449 | 14,343 | 14,258 | 15,539 |
| Miscellaneous | 5,843 | 7,507 | 7,303 | 7,427 | 7,192 |
| <i>Special, Local, and Loan Funds</i> | 65,293 | 75,309 | 84,374 | 93,101 | 114,885 |
| Total revenue | 1,066,121 | 1,093,023 | 1,112,304 | 1,161,046 | 1,289,761 |

(a) The receipts for Public Works, Health Administration, Public Service, etc., include Government grants during 1919 amounting to £218,687.

(c) *Expenditure.* The following statement shows the expenditure of shires during the years 1915 to 1919 inclusive:—

NEW SOUTH WALES.—EXPENDITURE OF SHIRES, 1915 TO 1919.

| Particulars. | 1915. | 1916. | 1917. | 1918. | 1919. |
|---------------------------------------|-----------|-----------|-----------|-----------|-----------|
| <i>General Fund—</i> | £ | £ | £ | £ | £ |
| Administrative expenses .. | 87,527 | 100,224 | 100,649 | 99,391 | 115,657 |
| Public works .. | 813,400 | 843,803 | 901,730 | 916,351 | 1,013,337 |
| Health administration .. | 8,049 | 8,513 | 9,149 | 9,292 | 26,237 |
| Public services .. | 17,935 | 15,229 | 15,256 | 19,370 | 21,293 |
| Shire property .. | 14,644 | 14,969 | 16,211 | 16,884 | 17,037 |
| Miscellaneous .. | 10,290 | 17,510 | 15,912 | 15,526 | 16,034 |
| <i>Special, Local, and Loan Funds</i> | 67,025 | 78,649 | 78,819 | 86,905 | 98,403 |
| Total expenditure .. | 1,018,870 | 1,078,897 | 1,140,726 | 1,163,719 | 1,307,998 |

(d) *Assets and Liabilities.* The financial position of the shires at the end of the year 1919 shewed that there was an excess of assets of £375,686. The following table gives particulars of assets and liabilities as at the 31st December, 1919:—

NEW SOUTH WALES.—ASSETS AND LIABILITIES OF SHIRES, 1919.

| Assets. | | Liabilities. | |
|---------------------------------|---------|-------------------------------|---------|
| | £ | | £ |
| General fund | 505,272 | General fund | 159,616 |
| Trading accounts | 10,999 | Trading accounts | 8,495 |
| Sanitary and garbage accounts.. | 35,104 | Sanitary and garbage accounts | 9,917 |
| Street lighting account | 7,564 | Street lighting account | 359 |
| Roads, bridges, and streets | | Roads, bridges, and streets | |
| account | 6,189 | account | 1,479 |
| Drainage account | 56 | Drainage account | 171 |
| Fire brigade account | 734 | Fire brigade account.. .. | 13 |
| Water supply account | 8,637 | Water supply account | 6,809 |
| Parks account | 434 | Parks account | 1,115 |
| Miscellaneous | 1,535 | Miscellaneous | 563 |
| Reserves and renewals account.. | 7,360 | Reserves and renewals account | 7,360 |
| Loan funds | 18,571 | Loan funds.. .. | 30,872 |
| | | Total | 226,769 |
| | | Excess of assets | 375,686 |
| Total | 602,455 | Total | 602,455 |

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 comparatively unimportant details.

In addition to the endowment of £50,000, the municipalities received from the Government during the financial year 1919-20 a sum of £69,532 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) *Boroughs and Shires.—Number, Population, and Value of Ratable Property.* The following table shows 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 1916 to 1920 inclusive :—

VICTORIA.—PARTICULARS OF MUNICIPALITIES, 1901 AND 1916 TO 1920.

| 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 BOROUGHES. | | | | | | |
| | | | | | £ | £ |
| 1901 | 58 | 627,237 | 153,783 | 130,358 | 67,302,423 | 4,765,632 |
| 1916 | 52 | 824,170 | 208,759 | 186,740 | 149,235,137 | 8,335,553 |
| 1917 | 51 | 829,368 | 213,520 | 188,528 | 154,105,571 | 8,587,302 |
| 1918 | 52 | 844,970 | 219,076 | 193,398 | 158,777,843 | 8,912,303 |
| 1919 | 52 | 859,470 | 224,757 | 197,689 | 164,306,704 | 9,227,807 |
| 1920 | 52 | 877,880 | 228,518 | 200,206 | 172,838,636 | 9,687,320 |

SHIRES.

| | | | | | | |
|------------|-----|---------|---------|---------|---------------|-------------|
| 1901 | 150 | 571,683 | 159,128 | 122,645 | £ 106,839,331 | £ 5,771,865 |
| 1916 | 141 | 617,587 | 184,374 | 141,893 | 169,724,979 | 8,606,509 |
| 1917 | 139 | 618,896 | 187,894 | 142,511 | 172,309,539 | 8,732,116 |
| 1918 | 139 | 613,380 | 186,551 | 141,313 | 172,558,872 | 8,735,794 |
| 1919 | 138 | 622,260 | 188,032 | 141,951 | 176,297,529 | 8,922,859 |
| 1920 | 138 | 628,420 | 188,892 | 142,570 | 184,599,186 | 9,340,172 |

(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 shows the amount of municipal assets and liabilities for the years 1901 and 1915 to 1919 :—

VICTORIA.—MUNICIPAL ASSETS AND LIABILITIES, 1901 AND 1915 TO 1919.

| Items. | 1901. | 1915. | 1916. | 1917. | 1918. | 1919. |
|--------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| ASSETS. | | | | | | |
| MUNICIPAL FUND— | £ | £ | £ | £ | £ | £ |
| Uncollected rates | 187,205 | 147,886 | 146,491 | 138,617 | 132,217 | 133,585 |
| Other assets | 122,581 | 760,685 | 392,876 | 442,388 | 427,046 | 550,283 |
| LOAN FUND— | | | | | | |
| (a) Sinking funds— | | | | | | |
| Amount at credit | 675,310 | 839,951 | 792,445 | 745,784 | 596,550 | 465,132 |
| Arrears due | 1,391 | 1,326 | 834 | 1,732 | 5,054 | 1,093 |
| (b) Unexpended balances | 394,136 | 378,278 | 209,363 | 286,206 | 238,906 | 204,761 |
| PROPERTY— | | | | | | |
| Buildings, markets, etc. | 2,507,441 | 3,863,556 | 3,750,947 | 3,848,320 | 3,871,232 | 3,938,068 |
| Waterworks | 197,675 | 175,267 | 177,050 | 252,069 | 268,815 | 271,581 |
| Gasworks | 63,732 | 96,107 | 105,124 | 109,215 | 110,819 | 114,505 |
| Total | 4,149,471 | 6,266,056 | 5,575,130 | 5,824,331 | 5,650,639 | 5,679,008 |

VICTORIA.—MUNICIPAL ASSETS AND LIABILITIES, 1901 AND 1915 TO 1919
—continued.

| Items. | 1901. | 1915. | 1916. | 1917. | 1918. | 1919. |
|------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| LIABILITIES. | | | | | | |
| | £ | £ | £ | £ | £ | £ |
| MUNICIPAL FUND— | | | | | | |
| Arrears due sinking funds .. | 1,021 | 1,326 | 834 | 1,732 | 5,054 | 1,093 |
| Overdue interest .. | 9,413 | 13,776 | 14,456 | 24,425 | 6,920 | 6,611 |
| Bank overdrafts .. | 157,046 | 213,330 | 252,130 | 233,160 | 317,410 | 484,785 |
| Other liabilities .. | 112,297 | 410,576 | 221,183 | 233,189 | 269,947 | 280,475 |
| LOAN FUNDS— | | | | | | |
| Loans outstanding .. | 4,253,304 | 5,739,084 | 5,869,260 | 6,030,343 | 5,764,050 | 5,041,429 |
| Due on loan contracts .. | 52,826 | 237,765 | 15,888 | 42,428 | 47,145 | 129,192 |
| Due on current contracts .. | 51,134 | 71,729 | 73,005 | 98,538 | 78,115 | 64,037 |
| Total .. | 4,637,041 | 6,687,586 | 6,446,756 | 6,663,815 | 6,488,641 | 6,007,622 |

(iv) *Revenue and Expenditure of Municipalities.* The following table shows the revenue from various sources, and the expenditure under various heads, exclusive of loan revenue and expenditure, of municipalities during the years 1901 and 1915 to 1919 :—

VICTORIA.—REVENUE AND EXPENDITURE OF MUNICIPALITIES,
1901 AND 1915 TO 1919.

| Items. | 1901. | 1915. | 1916. | 1917. | 1918. | 1919. |
|--|------------------|------------------|------------------|------------------|------------------|------------------|
| REVENUE. | | | | | | |
| | £ | £ | £ | £ | £ | £ |
| Taxation .. { Rates .. | 722,346 | 1,277,063 | 1,346,439 | 1,395,723 | 1,462,640 | 1,560,968 |
| .. { Licenses .. | 104,499 | 104,634 | 105,772 | 108,651 | 109,916 | 138,517 |
| .. { Dog fees .. | 14,965 | 20,158 | 20,528 | 20,883 | 21,481 | 21,074 |
| .. { Market and weigh- bridge dues .. | 49,623 | 63,646 | 63,812 | 67,726 | 71,737 | 85,240 |
| Government endowments and grants .. | 175,972 | 140,545 | 74,372 | 68,364 | 62,460 | 96,429 |
| Contributions for streets, etc. .. | 24,999 | 52,472 | 52,045 | 54,620 | 63,910 | 93,900 |
| Sanitary charges .. | 48,253 | 85,971 | 91,125 | 96,484 | 101,791 | 101,996 |
| Rents .. | 54,117 | 72,133 | 59,006 | 62,953 | 65,821 | 69,845 |
| Other sources .. | 89,210 | 388,850 | 441,128 | 487,962 | 566,788 | 714,156 |
| Total .. | 1,283,984 | 2,205,472 | 2,254,227 | 2,363,366 | 2,526,544 | 2,880,125 |

| | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|
| EXPENDITURE. | | | | | | |
| | £ | £ | £ | £ | £ | £ |
| Salaries, etc. .. | 139,270 | 199,872 | 206,353 | 210,034 | 214,797 | 226,692 |
| Sanitary work, street cleaning, etc. .. | 132,542 | 225,919 | 236,766 | 243,774 | 244,984 | 248,956 |
| Lighting .. | 86,059 | 93,381 | 95,420 | 97,685 | 98,511 | 100,679 |
| Fire brigades' contributions .. | 16,769 | 30,277 | 32,086 | 33,939 | 32,786 | 35,120 |
| Public works { Construction .. | 244,315 | 274,593 | 238,773 | 200,151 | 232,977 | 294,874 |
| .. { Maintenance .. | 345,334 | 811,608 | 847,505 | 897,136 | 1,046,474 | 1,152,247 |
| Formation of private streets, etc. .. | 23,350 | 62,012 | 68,024 | 63,499 | 75,474 | 111,125 |
| Redemption of loans .. | 27,745 | 92,738 | 101,461 | 112,020 | 124,797 | 137,688 |
| Interest on loans .. | 197,810 | 252,912 | 262,760 | 274,113 | 277,435 | 257,057 |
| Charities .. | 13,407 | 19,406 | 18,801 | 20,350 | 19,977 | 21,103 |
| Other expenditure .. | 103,403 | 174,945 | 180,018 | 186,310 | 178,043 | 332,347 |
| Total .. | 1,330,004 | 2,237,663 | 2,237,967 | 2,339,011 | 2,546,255 | 2,917,888 |

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

(ii) *Area, Population, Number of Dwellings, Rates, Assets and Liabilities of Cities, Towns and Shires.* The following table gives particulars of the area, population, number of inhabited tenements, assets and liabilities of cities and towns, and of shires, for each year from 1915 to 1919 :—

**QUEENSLAND.—PARTICULARS OF CITIES AND TOWNS AND SHIRES
1915 TO 1919.**

| Year. | Municipality. | Area. | Popu- lation. | Number of In- habited Dwel- lings. | Capital Value. | Assets. | Liabilities. | | |
|-------|------------------|------------------|------------------|--|-------------------|-----------|----------------------|-----------|-----------|
| | | | | | | | Government Loans. | Other. | Total. |
| | | Square Miles. | No. | No. | £ | £ | £ | £ | £ |
| 1915 | Cities and Towns | 400 | 289,441 | 61,140 | 16,401,175 | 1,691,800 | 249,675 | 1,132,546 | 1,382,221 |
| | Shires .. | 669,494 | 428,007 | 89,919 | 45,622,388 | 499,390 | 178,634 | 127,618 | 306,252 |
| | Total .. | 669,894 | 717,448 | 151,059 | 62,023,563 | 2,191,190 | 428,309 | 1,260,164 | 1,688,473 |
| 1916 | Cities and Towns | 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 | 16,771,990 | 1,829,543 | 261,385 | 1,217,593 | 1,478,978 |
| | Shires .. | 669,483 | 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 |

(iii) *Receipts and Expenditure of Cities, Towns, and Shires.* The following table shows the receipts and expenditure (including loan moneys) of cities and towns and of shires, as well as the total receipts and expenditure of all municipalities, for each year from 1915 to 1919 :—

**QUEENSLAND.—REVENUE AND EXPENDITURE OF CITIES AND TOWNS
AND SHIRES, 1915 TO 1919.**

| Year. | Municipality. | Receipts. | | | | Expenditure. | | | | | |
|-------|------------------|-----------------------|-------------|------------------------|-----------|---------------------|-----------------------|---------------------------------------|--------------------------|-----------|---|
| | | From Govern- ment. | From Rates. | From Other Sources. | Total. | On Public Works. | Loan Redem- ption. | Office Ex- penses and Salaries. | Other Expenses (a) | Total. | |
| | | £ | £ | £ | £ | £ | £ | £ | £ | £ | £ |
| 1915 | Cities and Towns | 27,439 | 433,139 | 97,245 | 557,823 | 493,900 | 18,635 | 39,553 | 87,623 | 639,711 | |
| | Shires .. | 36,736 | 415,371 | 62,665 | 514,772 | 390,701 | 15,088 | 67,485 | 60,706 | 533,980 | |
| | Total .. | 64,175 | 848,510 | 159,910 | 1,072,595 | 884,601 | 33,723 | 107,038 | 148,329 | 1,173,691 | |
| 1916 | Cities and Towns | 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 | 690,476 | 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 | |

(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 1915 to 1919; 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 1915 TO 1919 (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 |
| 1915 .. | 1,918,256 | 173,941 | 22,669 | 66,887 | 263,497 | 169,926 | 288,629 |
| 1916 .. | 2,006,802 | 176,870 | 23,448 | 67,136 | 267,454 | 160,516 | 270,929 |
| 1917 .. | 2,037,649 | 189,594 | 24,084 | 77,517 | 291,195 | 199,532 | 289,235 |
| 1918 .. | 2,103,195 | 194,497 | 26,821 | 76,589 | 297,907 | 206,122 | 296,590 |
| 1919 .. | 2,237,394 | 215,605 | 25,280 | 93,207 | 334,092 | 254,559 | 340,172 |

DISTRICT COUNCILS.

| | £ | £ | £ | £ | £ | £ | £ |
|---------|-----------|---------|--------|--------|---------|---------|---------|
| 1901 .. | 1,412,507 | 63,321 | 15,225 | 51,919 | 130,465 | 65,406 | 128,499 |
| 1915 .. | 2,601,298 | 128,859 | 34,999 | 27,574 | 191,432 | 152,951 | 204,358 |
| 1916 .. | 2,662,066 | 148,895 | 34,487 | 27,135 | 210,517 | 136,380 | 189,582 |
| 1917 .. | 2,704,374 | 155,677 | 36,674 | 30,143 | 222,494 | 161,886 | 205,079 |
| 1918 .. | 2,767,309 | 162,718 | 38,298 | 32,091 | 233,107 | 194,734 | 250,610 |
| 1919 .. | 2,829,198 | 167,161 | 38,555 | 43,906 | 249,622 | 206,952 | 270,108 |

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

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

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

WESTERN AUSTRALIA.—NUMBER, AREA, POPULATION, NUMBER OF DWELLINGS, AND VALUATION OF MUNICIPALITIES, 1901 AND 1915 TO 1920.

| Year ended the 31st October. | Number of Municipalities. | Area. | Population. | Dwellings. | | | Amount Payable in respect of Rates. |
|------------------------------|---------------------------|-------|-------------|------------|-------------|--------|-------------------------------------|
| | | | | Occupied. | Unoccupied. | Total. | |

| | No. | Acres. | (a) No. | (b) No. | (b) No. | (b) No. | £ |
|---------|-----|--------|---------|---------|---------|---------|---------|
| 1901 .. | 42 | 71,721 | 96,807 | 20,989 | 967 | 21,956 | (c) |
| 1915 .. | 31 | 67,290 | 155,334 | (c) | (c) | 33,542 | 172,720 |
| 1916 .. | 30 | 60,160 | 152,671 | (c) | (c) | 33,763 | 168,148 |
| 1917 .. | 28 | 59,560 | 150,562 | (c) | (c) | 33,733 | 171,239 |
| 1918 .. | 25 | 58,070 | 148,431 | (c) | (c) | 33,789 | 173,828 |
| 1919 .. | 23 | 56,462 | 151,575 | (c) | (c) | 33,626 | 179,945 |
| 1920 .. | 23 | 56,462 | 155,813 | (c) | (c) | 34,336 | 194,157 |

(a) Census figures, 1901.

(b) Returns for thirty-nine municipalities only.

(c) Not available.

Complete particulars of improved or unimproved capital values are not available. In the year 1915 the capital value of ratable property in municipalities was £24,921,422; in 1916, £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 1915 to 1920 :—

WESTERN AUSTRALIA.—REVENUE AND EXPENDITURE OF MUNICIPALITIES, 1901 AND 1915 TO 1920.

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

(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 1915 to 1920 :—

WESTERN AUSTRALIA.—ASSETS AND LIABILITIES OF MUNICIPALITIES, 1901 AND 1915 TO 1920.

| Year ended the 31st October— | Assets. | | | | | Liabilities. | | |
|------------------------------|----------------------|--|--|---------------|-----------|------------------------------|--------------------|-----------|
| | Balance in Hand. (a) | Value of Property owned by Municipalities. | Accrued Sinking Funds for Redemption of Loans. | Other Assets. | Total. | Outstanding Debts and Bonds. | Other Liabilities. | Total. |
| | £ | £ | £ | £ | £ | £ | £ | £ |
| 1901 .. | 37,259 | 214,984 | 42,311 | 13,432 | 307,986 | 321,000 | 19,762 | 340,762 |
| 1915 .. | 16,732 | 1,280,912 | 268,911 | 103,409 | 1,669,964 | 1,690,074 | 74,392 | 1,764,466 |
| 1916 .. | 17,283 | 1,438,246 | 286,485 | 89,158 | 1,823,122 | 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 | 372,168 | 127,592 | 1,967,776 | 1,738,568 | 85,361 | 1,823,929 |
| 1920 .. | 30,520 | 1,456,110 | 385,688 | 139,181 | 2,011,499 | 1,746,210 | 91,467 | 1,837,677 |

(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 1915 TO 1920.

| Year ended 30th June. | No. of Districts. | Area. | Estimated Annual Value. | Revenue. | | | | Expenditure. | | | | Assets. | Liabilities. |
|-----------------------|-------------------|---------|-------------------------|----------|------------------|------------|---------|------------------|---------|--------|---------|---------|--------------|
| | | | | Rates. | From Government. | Other. (c) | Total. | Admin-istration. | Works. | Other. | Total. | | |
| | | | | | | | | | | | | | |
| No. | Acres. | £ | £ | £ | £ | £ | £ | £ | £ | £ | £ | £ | |
| 1901 (a) | 93 | 975,808 | (b) | 8,293 | 36,011 | 6,580 | 50,884 | 6,833 | 45,303 | 3,935 | 56,071 | 18,339 | 2,441 |
| 1915 .. | 112 | 975,815 | 1,756,314 | 88,569 | 27,753 | 47,571 | 163,893 | 26,025 | 139,542 | 27,466 | 193,033 | 206,806 | 98,285 |
| 1916 .. | 113 | 975,827 | 1,802,847 | 104,345 | 24,397 | 38,820 | 167,562 | 24,903 | 114,343 | 27,094 | 166,340 | 226,335 | 114,841 |
| 1917 .. | 117 | 975,828 | 1,793,463 | 113,686 | 30,226 | 55,383 | 199,295 | 26,335 | 126,316 | 36,526 | 189,177 | 256,245 | 137,994 |
| 1918 .. | 116 | 975,830 | (b) | 116,245 | 32,594 | 46,187 | 195,026 | 27,969 | 139,514 | 38,682 | 206,165 | 265,033 | 149,127 |
| 1919 .. | 118 | 975,831 | (b) | 118,144 | 27,692 | 53,748 | 199,584 | 29,591 | 132,276 | 42,245 | 204,112 | 272,441 | 173,002 |
| 1920 .. | 118 | 975,830 | (b) | 135,844 | 53,234 | 68,902 | 257,780 | 31,722 | 152,172 | 59,471 | 243,365 | 280,621 | 191,823 |

(a) Year ended 31st December. (b) Not available. (c) 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 shows particulars of the receipts and expenditure of the various Boards—both municipal and extra-municipal—during the years 1901 and 1915 to 1920 :—

WESTERN AUSTRALIA.—RECEIPTS AND EXPENDITURE OF LOCAL HEALTH BOARDS, 1901 AND 1915 TO 1920.

| 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 |
| 1915 (a) .. | (e) 42,904 | (f) 61,393 | 104,297 | 70,963 | 36,890 | 107,853 |
| 1916 (b) .. | (e) 43,942 | (f) 59,441 | 103,383 | 68,749 | 29,971 | 98,720 |
| 1917 (c) .. | (e) 42,967 | (f) 56,488 | 99,455 | 67,830 | 31,056 | 98,886 |
| 1918 (d) .. | (e) 41,358 | (f) 56,383 | 97,741 | 66,652 | 32,588 | 99,240 |
| 1919 (g) .. | (e) 40,781 | (f) 59,174 | 99,955 | 74,390 | 36,970 | 111,360 |
| 1920 (h) .. | (e) 49,012 | (f) 74,633 | 123,645 | 82,856 | 39,719 | 122,575 |

(a) Exclusive of 13 inactive boards. (b) Exclusive of 8 inactive boards. (c) Exclusive of 10 inactive boards. (d) Exclusive of 8 inactive boards. (e) Including sanitary rates. (f) Including sanitary fees and charges. (g) Exclusive of 9 inactive boards. (h) Exclusive of 11 inactive boards.

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 1915 to 1919 inclusive :—

TASMANIA.—ANNUAL VALUE, REVENUE AND EXPENDITURE OF MUNICIPALITIES, 1915 TO 1919.

| Year. | Number of Municipalities. | Annual Value of Ratable Property. | Revenue. | | | | Expenditure. (b) |
|---------|---------------------------|-----------------------------------|-------------|------------|-------------------------|---------|------------------|
| | | | From Rates. | From Govt. | From other Sources. (a) | Total. | |
| | | £ | £ | £ | £ | £ | £ |
| 1915 .. | 50 | 1,654,654 | 190,491 | 14,651 | 172,006 | 377,148 | 394,374 |
| 1916 .. | 50 | 1,717,878 | 188,939 | 12,753 | 216,880 | 418,572 | 510,977 |
| 1917 .. | 50 | 1,769,443 | 202,119 | 18,527 | 249,756 | 470,402 | 487,615 |
| 1918 .. | 50 | 1,787,234 | 216,232 | 22,266 | 318,511 | 557,009 | 558,939 |
| 1919 .. | 50 | 1,872,336 | 240,661 | 33,967 | 304,258 | 578,886 | 585,491 |

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

According to the latest estimate made by the Commissioner of Taxes the capital value of ratable property in 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 shows the total revenue and expenditure for all local bodies, exclusive of all amounts contributed by the general Government, during each year from 1915 to 1919 inclusive:—

TASMANIA.—REVENUE AND EXPENDITURE OF ALL LOCAL BODIES, EXCLUSIVE OF AMOUNTS CONTRIBUTED BY THE GENERAL GOVERNMENT, 1915 TO 1919.

| Particulars. | 1915. | 1916. | 1917. | 1918. | 1919. |
|-----------------------------------|----------------|----------------|----------------|----------------|----------------|
| (a) REVENUE. | | | | | |
| | £ | £ | £ | £ | £ |
| Marine Boards and Lighthouses(c) | 93,488 | (c)67,579 | 100,364 | 79,633 | 89,037 |
| Municipalities | 362,497 | 405,819 | 451,875 | 534,743 | 544,919 |
| Cemetery Trusts | 1,320 | 1,275 | 1,143 | 1,507 | 1,718 |
| Water Trusts | 2,364 | 2,365 | 2,865 | 2,669 | 3,458 |
| Total | 459,669 | 477,038 | 556,247 | 618,552 | 639,132 |
| (b) EXPENDITURE. | | | | | |
| | £ | £ | £ | £ | £ |
| Marine Boards and Lighthouses (c) | 144,805 | 87,960 | 99,308 | 89,722 | 99,300 |
| Municipalities | 379,723 | 498,224 | 469,088 | 536,673 | 551,524 |
| Cemetery Trusts | 1,499 | 1,425 | 1,379 | 1,593 | 1,610 |
| Water Trusts | 1,966 | 1,813 | 1,753 | 2,246 | 2,894 |
| Total | 527,993 | 589,422 | 571,528 | 630,234 | 655,328 |

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

§ 3. Water Supply, Sewerage and Drainage.

1. New South Wales.—(i) *Metropolitan Waterworks*. The following tables give particulars as to (a) the revenue, expenditure, and capital cost of the metropolitan waterworks, and (b) the number of gallons of water, number of houses and population supplied in 1901 and from 1916 to 1920:—

SYDNEY WATERWORKS.—REVENUE, EXPENDITURE, AND CAPITAL COST, 1901 AND 1916 TO 1920.

| Year ended 30th June. | Revenue. (a) | Working Expenses. | Capital Cost, exclusive of Items on which Interest is not charged. | Percentage of Working Expenses to Revenue. | Percentage of Revenue to Capital Cost. | Interest Payable on Capital Cost. | Net Profit after Paying Working Expenses and Interest. |
|-----------------------|-----------------|-------------------|--|--|--|-----------------------------------|--|
| | £ | £ | £ | % | % | £ | £ |
| 1901 .. | 203,348 | 49,270 | 4,300,552 | 24.22 | 4.72 | 152,333 | 1,745 |
| 1916 .. | 470,744 | 165,210 | 7,192,472 | 35.09 | 6.54 | 261,335 | 44,199 |
| 1917 .. | 468,537 | 177,977 | 7,769,200 | 37.98 | 6.03 | 306,198 | -15,638b |
| 1918 .. | 523,979 | 195,448 | 8,472,700 | 37.30 | 6.18 | 343,716 | -15,185b |
| 1919 .. | 627,288 | 219,322 | 8,900,391 | 34.96 | 7.04 | 377,885 | 30,079 |
| 1920 .. | 664,975 | 291,618 | 9,584,723 | 43.85 | 6.93 | 433,170 | -59,813b |

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

(b) —Signifies loss.

SYDNEY WATERWORKS.—NUMBER OF GALLONS, HOUSES, AND POPULATION SUPPLIED, 1901 AND 1916 TO 1920.

| 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 |
| 1916 .. | 183,598 | 917,990 | 39,380 | 14,374,000 | 214 | 42.89 | 183 |
| 1917 .. | 193,643 | 968,215 | 39,637 | 14,467,000 | 204 | 40.94 | 104 |
| 1918 .. | 196,685 | 993,425 | 41,358 | 15,096,030 | 206 | 41.63 | 98 |
| 1919 .. | 204,308 | 1,021,540 | 45,557 | 16,628,342 | 223 | 44.59 | 106 |
| 1920 .. | 212,046 | 1,060,230 | 48,021 | 17,527,753 | 226 | 45.29 | 142 |

(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 1916 to 1920 :—

SYDNEY SEWERAGE SYSTEMS.—REVENUE, EXPENDITURE, AND CAPITAL COST, 1901 AND 1916 TO 1920.

| Year ended the 30th June. | Revenue. | Working Expenses. | Capital Cost, exclusive of Items on which Interest is not charged. | Percentage of Expenditure to Revenue. | Percentage of Revenue on Capital Cost. | Interest Payable on Capital Cost. | Profit or Loss after Payment of Working Expenses and Interest. |
|---------------------------|----------|-------------------|--|---------------------------------------|--|-----------------------------------|--|
| | £ | £ | £ | % | % | £ | £ |
| 1901 .. | 125,290 | 45,395 | 3,066,147 | 36.23 | 4.05 | 106,475 | — 26,580 |
| 1916 .. | 363,799 | 120,244 | 6,114,072 | 33.05 | 5.95 | 224,551 | 19,004 |
| 1917 .. | 387,333 | 138,416 | 6,722,313 | 35.73 | 5.76 | 269,723 | — 20,806 |
| 1918 .. | 429,669 | 147,444 | 6,870,927 | 34.31 | 6.25 | 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 |

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

SYDNEY SEWERAGE SYSTEMS.—NUMBER OF HOUSES DRAINED, POPULATION SERVED, AND LENGTH OF SEWERS, 1901 AND 1916 TO 1920.

| 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 |
| 1916 .. | 129,650 | 648,250 | 1,022.15 | 54.08 | 443,134 | 953 |
| 1917 .. | 136,409 | 682,045 | 1,085.45 | 59.55 | 475,474 | 1,030 |
| 1918 .. | 139,777 | 698,885 | 1,113.34 | 60.07 | 479,464 | 1,039 |
| 1919 .. | 141,798 | 708,990 | 1,131.72 | 60.11 | 484,798 | 1,052 |
| 1920 .. | 145,304 | 726,520 | 1,161.94 | 63.73 | 503,362 | 1,096 |

(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 449 miles.

The capital debt of the Board to the Government at 30th June, 1920, in respect of water supply was £973,512.

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 1916 to 1920 :—

PARTICULARS OF HUNTER DISTRICT WATER SUPPLY, 1901 AND 1916 TO 1920.

| 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 |
| 1916 | 79,507 | 58,436 | 22,056 | 110,280 | 3,507 | 1,283,754 |
| 1917 | 78,040 | 65,338 | 22,604 | 113,377 | 3,435 | 1,253,897 |
| 1918 | 80,607 | 73,949 | 23,257 | 116,285 | 3,442 | 1,256,628 |
| 1919 | 91,204 | 76,297 | 24,079 | 120,395 | 4,065 | 1,483,806 |
| 1920 | 97,469 | 88,488a | 24,864 | 124,320 | 4,319 | 1,580,905 |

(a) Including £32,617, interest on capital debt, and £10,355, instalment to sinking fund for reconstruction of renewable works.

The average daily consumption of water for all purposes per inhabitant was 34.74 gallons during the year 1920, as against 33.76 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, 1920, about 133 miles of sewers, connecting with 11,338 separate properties, were under the control of the Board. For the financial year 1919-20 the revenue was £28,050 and the expenditure £40,626, the latter amount including a £4,949 instalment to the sinking fund for the reconstruction of renewable works. The capital debt of the Board to the Government at 30th June, 1920, in respect of sewerage was £518,804.

(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, 1918, 58 country municipalities had availed themselves of the privileges of the Acts as regards waterworks, all of which at that date had been completed and handed over by the Government. The capital debt of these works as gazetted was £1,466,751, and the total sums payable annually for various periods ranging up to 100 years was £55,306, 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 twenty 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, 1920, the capital debt of these systems was £474,952, the amount payable annually to the Government being £19,965. 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, 1920, 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, 1920, was 795,851. The liability on Government loans on the 30th June, 1920, was £1,313,182, and for loans raised by the Board was £11,523,613. The Board is still empowered to borrow £303,139 before reaching the limit of its borrowing powers.

(a) *Total Cost of Water Supply and Sewerage.* The subjoined table shews the total cost of construction and maintenance of water supply and sewerage from 1853 to 1920 :—

MELBOURNE AND METROPOLITAN BOARD OF WORKS.—TOTAL COST OF CONSTRUCTION AND MAINTENANCE OF WATER SUPPLY AND SEWERAGE, 1853 TO 1920.

| Period ending 30th June. | Water Supply. | | | Sewerage. | | | Grand Total. |
|-----------------------------|------------------|----------------------|-----------|------------------|----------------------|-----------|-----------------|
| | Capital Cost. | Working Expenses. | Interest. | Capital Cost. | Working Expenses. | Interest. | |
| | £ | £ | £ | £ | £ | £ | £ |
| 1853 to 1891 | 3,378,246 | 420,833 | 1,021,676 | .. | .. | .. | 4,820,755 |
| 1891 to 1901 | 336,957 | 367,506 | 1,021,181 | 3,307,764 | 114,268 | 919,017 | 6,066,693 |
| 1901 to 1911 | 299,303 | 384,871 | 1,026,362 | 2,981,666 | 461,706 | 2,333,348 | 7,487,256 |
| 1911 to 1914 | 600,222 | 159,903 | 354,665 | 614,401 | 199,214 | 902,310 | 2,830,715 |
| 1914 to 1915 | 129,007 | 60,547 | 130,268 | 245,548 | 72,030 | 316,788 | 954,188 |
| 1915 to 1916 | 91,893 | 54,580 | 134,915 | 166,201 | 70,783 | 321,640 | 840,012 |
| 1916 to 1917 | 31,979 | 54,566 | 137,544 | 108,583 | 72,658 | 329,176 | 734,506 |
| 1917 to 1918 | 21,214 | 60,714 | 139,458 | 155,911 | 85,327 | 345,521 | 808,145 |
| 1918 to 1919 | 32,245 | 59,394 | 153,573 | 138,884 | 87,954 | 372,235 | 844,285 |
| 1919 to 1920 | 47,251 | 62,941 | 156,588 | 158,288 | 95,287 | 373,925 | 894,280 |
| Total .. | 4,968,317 | 1,685,855 | 4,276,230 | 7,877,246 | 1,259,227 | 6,213,960 | 26,280,835 |

(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 1915-16 to 1919-20:—

MELBOURNE AND METROPOLITAN BOARD OF WORKS.—REVENUE AND EXPENDITURE DURING EACH YEAR, 1901-2 AND 1915-16 TO 1919-20.

| Particulars. | 1901-2. | 1915-16. | 1916-17. | 1917-18. | 1918-19. | 1919-20. |
|---------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| ORDINARY RECEIPTS. | | | | | | |
| Water supply | £ 171,956 | £ 344,053 | £ 333,747 | £ 335,674 | £ 353,466 | £ 394,007 |
| Sewerage, etc. | 124,696 | 311,408 | 293,250 | 308,904 | 364,025 | 396,718 |
| Live stock—Metropolitan farm .. | 19,929 | 103,669 | 86,225 | 58,124 | 57,201 | 53,051 |
| Interest { Water supply | 1,718 | 1,718 | 1,593 | 1,053 | 826 | 1,707 |
| { Sewerage | 17,448 | 8,694 | 11,131 | 8,514 | 7,525 | 9,509 |
| Sinking Fund proceeds | .. | .. | .. | 30,275 | .. | .. |
| Total | 334,029 | 769,542 | 725,946 | 742,544 | 783,043 | 854,992 |

ORDINARY EXPENDITURE.

| | | | | | | |
|---|---------|---------|---------|---------|---------|---------|
| General management | 33,621 | 45,776 | 49,409 | 50,094 | 49,700 | 51,259 |
| Live stock, etc.—Metropolitan farm .. | 16,702 | 87,325 | 67,206 | 85,195 | 63,595 | 60,851 |
| Maintenance { Water supply | 22,205 | 41,457 | 38,452 | 39,024 | 39,580 | 80,332 |
| { Sewerage | 24,396 | 54,748 | 45,208 | 61,332 | 56,221 | 62,149 |
| Interest { Water supply | 102,670 | 136,633 | 139,138 | 140,906 | 145,458 | 147,750 |
| { Sewerage | 192,952 | 330,568 | 340,589 | 354,211 | 361,898 | 362,886 |
| War expenditure: Safeguarding works, etc. | .. | 1,000 | 7,431 | 6,458 | 3,535 | 1,195 |
| Patriotic and Belgian Relief Funds .. | .. | 10,721 | .. | .. | 713 | 100 |
| Victorian Red Cross | .. | 30,000 | 100 | .. | .. | .. |
| Sinking fund investment | .. | .. | .. | .. | 30,000 | 5,036 |
| Total | 392,546 | 738,228 | 687,533 | 737,220 | 750,700 | 751,588 |

LOAN RECEIPTS.

| | | | | | | |
|-------------------------|---------|---------|---------|---------|---------|---------|
| Water supply | 1,636 | 18,500 | 8,062 | 3,482 | 2,720 | 4,712 |
| Sewerage | 88,425 | 53,326 | 44,926 | 42,673 | 47,339 | 53,973 |
| Proceeds of loans | 396,238 | 190,512 | 567,878 | 77,025 | 176,125 | 543,853 |
| Miscellaneous | .. | 7,947 | 2,648 | 4,431 | 4,857 | 4,351 |
| Total | 486,299 | 270,285 | 623,514 | 127,611 | 231,041 | 606,889 |

LOAN EXPENDITURE.

| | | | | | | |
|--|-----------|---------|---------|---------|---------|---------|
| Water supply construction | 17,058 | 109,440 | 39,764 | 23,569 | 35,237 | 55,937 |
| Sewerage construction | 410,760 | 235,458 | 154,743 | 182,431 | 191,012 | 205,516 |
| Expenses in floating and redemption of loans | 5,200 | 51,559 | 379,362 | 26,429 | 27,151 | 249,617 |
| Miscellaneous | (a) 4,293 | 30,311 | 7,156 | 1,273 | 9,263 | 27,622 |
| Total | 428,725 | 426,768 | 581,025 | 233,702 | 262,663 | 538,692 |

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

(ii) *Melbourne Metropolitan Water Supply. (a) Development of System.* The following statement shows the development which has taken place in the water supply system of Melbourne during the 63 years since its inception :—

MELBOURNE WATER SUPPLY SYSTEM, 1857 TO 1920.

| 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 |
| 1920 (June 30) | 795,851 | 4,968,317 | 1/- | 6d. | 1,723½ | 45,187,536 |

(a) 31st December.

(b) 30th June.

On the O'Shanassy scheme up to 30th June, 1920, the sum of £466,678 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 1920, shewing the increase in the supply of water in Melbourne and suburbs :—

MELBOURNE WATERWORKS.—NUMBER OF HOUSES, POPULATION, AND WATER SUPPLIED, 1901, AND 1916 TO 1920.

| Year. Ended 30th June. | Number of Houses Served. | Estimated Population Supplied. | Average Daily Supply. | Total Supply for the Year ended 30th June. | Average Daily Supply. | | Rate Levied. | Assessments of Houses Served by Metropolitan Water Supply. |
|---------------------------------|-----------------------------------|--------------------------------------|-----------------------------|--|--------------------------|--|-----------------|---|
| | | | | | Per House. | Per Head of Estimated Population. | | |
| | No. | No. | ,000 Gallons. | ,000 Gallons. | Gallons. | Gallons. | | £ |
| 1901 .. | 104,548 | 491,780 | 28,732 | 10,487,007 | 274.8 | 58.4 | 6d. in the £ | 3,479,721 |
| 1916 .. | 155,208 | 693,978 | 37,069 | 13,567,184 | 238.8 | 53.4 | 6d. in the £ | 6,905,842 |
| 1917 .. | 158,086 | 720,577 | 37,653 | 13,743,439 | 238.2 | 52.3 | | 7,113,740 |
| 1918 .. | 161,743 | 733,496 | 39,133 | 14,283,490 | 241.9 | 53.3 | | 7,270,091 |
| 1919 .. | 165,046 | 749,709 | 41,222 | 15,045,938 | 249.8 | 55.0 | | 7,507,306 |
| 1920 .. | 170,550 | 771,871a | 44,300 | 16,235,587 | 260.1 | 57.47 | | 7,945,874 |

(a) Census population 3rd April, 1921.

(c) *Total Cost of Construction, Revenue, Expenditure and Net Profits, 1853 to 1920.* The following table shews the total cost of construction, the revenue, expenditure, and net profits for various periods up to 30th June, 1920 :—

MELBOURNE WATERWORKS.—CONSTRUCTION COST, REVENUE, EXPENDITURE, AND NET PROFITS, 1853 TO 1920.

| 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 |
| Total .. | 4,968,317 | 9,894,664 | 1,685,855 | .. | 4,276,230 | 3,932,579 |

(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 (£3,893) and special War expenditure (£3,632). (j) Not including renewals (£4,183) 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, 3,129 acres have been purchased, making the total area of the farm 11,976 acres at 30th June, 1920, its total cost to that date being £578,139. About 34,360,794 gallons of sewage had to be disposed of every 24 hours during the year 1919-20 in irrigating the fields. During the financial year 1919-20, 5,085 sheep were sold, the profit for the year being £4,582. Cattle to the number of 2,268 were sold, the profit for the year on cattle being £21,019.

(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 1915-16 to 1919-20 :—

MELBOURNE SEWERAGE WORKS.—TENEMENTS CONNECTED, CAPITAL COST, REVENUE, MAINTENANCE, AND WORKING EXPENSES, 1901-2 AND 1915-16 TO 1919-20.

| 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 |
| 1915-16 .. | 143,737 | 7,135,580 | 307,625 (a) | 50,487 | 358,112 | 52,402 (b) |
| 1916-17 .. | 148,395 | 7,424,163 | 289,512 (c) | 25,586 | 315,098 | 53,099 (d) |
| 1917-18 .. | 151,622 | 7,580,074 | 298,053 (e) | 29,346 | 327,399 | 65,534 |
| 1918-19 .. | 155,238 | 7,718,958 | 341,053 (f) | 38,847 | 379,900 | 69,777 (g) |
| 1919-20 .. | 158,735 | 7,877,246 | 362,136 | 46,921 | 409,057 | 75,094 (h) |

(a) Rate reduced from 1s. 1d. to 11d. in the £. (b) Not including renewals (£3,424) and special War expenditure (£2,925). (c) Rate reduced from 11d. to 10d. in the £. (d) Not including renewals (£3,790) and special War expenditure (£2,635). (e) Not including renewals (£3,402) and special War expenditure (£2,609). (f) Rate increased from 10d. to 11d. (g) Not including Renewals (£3,383) and special War expenditure (£1,564). (h) Not including renewals (£3,775) and special War expenditure (£553).

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

The following table gives particulars as to the waterworks under the control of Trusts and municipal corporations for the years 1901 and 1916 to 1920 :—

VICTORIA.—COUNTRY WATERWORKS UNDER TRUSTS AND MUNICIPAL CORPORATIONS, 1901 AND 1916 TO 1920.

| Year. | Waterworks Trusts. | | | | Municipal Corporations. | | | |
|---------|--------------------|---------------|-----------------------|-----------------------|-------------------------|---------------|-----------------------|-----------------------|
| | Number of Trusts. | Capital Cost. | Capital Indebtedness. | Interest Outstanding. | Number of Corporations. | Capital Cost. | Capital Indebtedness. | Interest Outstanding. |
| | No. | £ | £ | £ | No. | £ | £ | £ |
| 1901 .. | 76 | 823,418 | 748,089 | (a) | 24 | (a) | 470,041 | (a) |
| 1916 .. | 97 | 1,206,938 | 929,561 | 13,128 | 28 | 700,832 | 450,518 | 2,050 |
| 1917 .. | 98 | 1,224,211 | 937,810 | 13,358 | 28 | 718,089 | 464,114 | 1,871 |
| 1918 .. | 98 | 1,196,335 | 904,229 | 12,632 | 29 | 773,998 | 514,115 | 10,379 |
| 1919 .. | 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 |

(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, 1920, was £800,700, the estimated population served 37,000, and the number of assessments 11,900. The revenue for the year amounted to £51,836.

3. *Queensland*.—(i) *The Metropolitan and Ipswich 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.

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

(b) *Brisbane Waterworks 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, and amount of interest and loan redemption during 1901 and each of the years 1915 to 1920:—

**BRISBANE WATERWORKS AND SEWERAGE WORKS UNDER CONSTRUCTION.—
COST, REVENUE, EXPENDITURE, INTEREST, AND REDEMPTION OF LOANS,
1901 AND 1915 TO 1920.**

| 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 |
| 1915 | 1,852,622 | 103,530 | 50,078 | 361,765 | 52,704 |
| 1916 | 2,136,699 | 111,066 | 53,879 | 284,078 | 53,995 |
| 1917 | 2,422,857 | 121,514 | 59,199 | 286,158 | 60,388 |
| 1918 | 2,683,846 | 134,121 | 65,653 | 259,132 | 64,039 |
| 1919 | 3,115,002 | 156,743 | 79,667 | 431,156 | 72,354 |
| 1920 | 3,661,580 | 216,620 | 94,070 | 546,578 | 88,033 |

(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 1915 to 1920:—

BRISBANE WATERWORKS.—PARTICULARS, 1901 AND 1915 TO 1920.

| 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 |
| 1915 | 405 | 31,442 | 157,210 | 2,655,440 | 7,275,178 | 46.28 |
| 1916 | 414 | 31,770 | 158,030 | 2,629,108 | 7,183,354 | 45.46 |
| 1917 | 429½ | 33,082 | 165,410 | 2,827,836 | 7,747,498 | 46.83 |
| 1918 | 451½ | 34,450 | 172,250 | 3,159,105 | 8,655,082 | 50.24 |
| 1919 | 477½ | 36,998 | 178,620 | 3,628,478 | 9,941,036 | 55.65 |
| 1920 | 505 | 40,266 | 193,160 | 3,293,061 | 8,997,436 | 46.58 |

The total length of the trunk mains is 102½ miles.

(d) *Sewerage Scheme.* Sewerage works are under construction, by which the sewage will be treated by the activated sludge method. The survey work is being carried on, 20,268 houses having now been surveyed, and 77,368 lineal feet of main sewers, including a tunnel under the Brisbane River, have been constructed, while 19,224 lineal feet are under construction.

(ii) *Country Towns' Water Supply.* In addition to the city of Brisbane there were at the end of the year 1919 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 1919 :—

QUEENSLAND.—PARTICULARS OF COUNTRY WATER SUPPLY SYSTEMS, 1919.

| | | £ | | | £ |
|------------------------------------|--------------------------|-------------|-------------------|--------------------------|---------|
| Cost of construction to 31/12/19.. | | 1,010,024 | Expen- diture | Office and salaries .. | 18,121 |
| Receipts { | Rates and sales of water | 107,530 | | Construction .. | 22,419 |
| | Other .. | ..(a)20,881 | | Maintenance .. | 38,694 |
| | Total receipts .. | 128,411 | | Interest & redemption .. | 30,967 |
| | | | | Other expenses .. | 24,803 |
| Assets | | 799,977 | Liabilities | | 580,208 |
| | | | Total .. | | 135,004 |

(a) Including £9,864 from Government loans.

4. South Australia.—(i) *Adelaide Water Supply System.* The water supply system of Adelaide is under the control of the Public Works Department. The total capital cost up to the 30th June, 1920, was £2,172,518, the total revenue being £3,543,470, and the area served approximately 106,465 acres.

The following table gives various particulars relating to the water supply of Adelaide for the years 1916 to 1920 inclusive :—

ADELAIDE WATER SUPPLY.—LENGTH OF MAINS, REVENUE, EXPENDITURE, AND CONSUMPTION OF WATER, 1916 TO 1920.

| 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. |
| 1916 | 873 | 103,947 | 35,412 | 68,535 | 3.42 | 3,223 |
| 1917 | 882 | 118,951 | 32,974 | 85,977 | 4.26 | 4,113 |
| 1918 | 901 | 118,985 | 34,298 | 84,687 | 4.15 | 4,266 |
| 1919 | 914 | 126,110 | 36,142 | 89,968 | 4.33 | 5,292 |
| 1920 | 947 | 137,488 | 43,410 | 94,078 | 4.33 | 5,626 |

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

(ii) *Adelaide Sewerage System.* In connexion with the sewerage system of Adelaide, which is also under the control of the Public Works Department, about 363 miles of sewers had been laid in the city and suburbs up to the 30th June, 1920.

The following table gives particulars relating to the Adelaide sewerage system for the years 1916 to 1920 inclusive :—

ADELAIDE SEWERAGE SYSTEM.—REVENUE AND EXPENDITURE, 1916 TO 1920.

| 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. |
| | £ | £ | £ | £ | £ | £ | £ | % |
| 1916 .. | 56,606 | 21,207 | 77,813 | 11,410 | 14,432 | 25,842 | 51,971 | 6.39 |
| 1917 .. | 57,488 | 13,664 | 71,152 | 11,350 | 10,794 | 22,144 | 49,008 | 5.96 |
| 1918 .. | 59,345 | 19,060 | 78,405 | 12,054 | 11,945 | 23,999 | 54,406 | 6.55 |
| 1919 .. | 60,808 | 14,697 | 75,505 | 13,226 | 10,409 | 23,635 | 51,870 | 6.12 |
| 1920 .. | 65,744 | 20,332 | 86,076 | 13,396 | 10,650 | 24,046 | 62,030 | 7.21 |

The seaside town of Glenelg is served by separate sewage disposal works, including a pumping station, septic tank, lucerne plots, and filter beds. The net revenue for the year ended 30th June, 1920, was £1,501, being 3.25 per cent. on the capital cost. Up to the same date 15½ miles of sewers had been laid.

The city of Port Adelaide has a sewerage system by which the sewage is pumped to the Sewage Farm. The capital cost of this work at 30th June, 1920, was £307,931. The revenue received for the year ended 30th June, 1920, was £6,460, the working expenses £4,064, leaving a net revenue of £2,396, representing 0.78 per cent. on capital cost. The length of sewers laid at the above date was 42½ 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 Metropolitan Water Supply, Sewerage and Drainage Undertaking. (b) The Goldfields Water Supply Undertaking. (c) Mines Water Supplies, boring and well-sinking in mining districts, formerly a branch of the Mines Department. (d) Water supplies, sewerage and drainage, well-sinking, boring, etc., in agricultural districts, etc., formerly a branch of the Public Works Department.

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

(b) *Financial Operations of Water Supply Branch.* The following table gives particulars of the financial operations of the Metropolitan Water Supply Branch for each year ending the 30th June from 1916 to 1920 inclusive:—

METROPOLITAN WATER SUPPLY BRANCH.(a)—PARTICULARS OF FINANCIAL OPERATIONS, 1916 TO 1920.

| 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. |
|---------------------------|------------------------|---------------|-------------------|----------------|-------------------------------------|---------------------------------------|
| | £ | £ | £ | £ | £ | % |
| 1916 | 997,650 | 201,834 | 795,816 | 103,668 | 37,987 | 36.60 |
| 1917 | 1,019,388 | 220,750 | 798,638 | 95,451 | 36,075 | 37.79 |
| 1918 | 1,057,444 | 240,650 | 816,794 | 91,380 | 34,670 | 37.94 |
| 1919 | 1,080,876 | 261,520 | 819,355 | 89,215 | 35,881 | 40.22 |
| 1920 | 1,119,910 | 270,498 | 849,412 | 96,881 | 44,829 | 46.27 |

(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 1916 to 1920 inclusive:—

METROPOLITAN WATER SUPPLY BRANCH.—CONSUMPTION OF WATER, 1916 TO 1920.

| 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. |
|------|-------|-------|-------|---------|-----------|-----------|--------|---------|-------|-------|
| 1916 | 2,443 | 2,600 | 5,052 | 894,057 | 955,075 | 1,849,132 | 30,782 | 129,300 | 164 | 39.1 |
| 1917 | 1,929 | 3,179 | 5,108 | 704,251 | 1,160,464 | 1,864,715 | 31,698 | 133,130 | 161 | 38.4 |
| 1918 | 2,659 | 2,444 | 5,103 | 970,671 | 892,054 | 1,862,725 | 32,396 | 136,000 | 157 | 37.5 |
| 1919 | 2,463 | 3,496 | 5,959 | 899,194 | 1,276,122 | 2,175,316 | 33,196 | 152,700 | 179 | 33.9 |
| 1920 | 2,467 | 3,659 | 6,126 | 903,072 | 1,339,364 | 2,242,436 | 34,570 | 165,900 | 174 | 36.3 |

ARMADALE DISTRICT.

| | | | | | | | | | | |
|------|----|----|----|------------|---------|------------|-----|-----|---------|----------|
| 1916 | 23 | .. | 23 | 8,300 | .. | 8,300 | 83 | 300 | 277 | 76.6 |
| 1917 | 29 | .. | 29 | (a) 10,663 | .. | (a) 10,663 | 98 | 410 | (a) 296 | (a) 70.7 |
| 1918 | 30 | .. | 30 | 10,954 | .. | 10,954 | 102 | 428 | 294 | 70.1 |
| 1919 | 32 | .. | 32 | (a) 11,495 | (b) 176 | 11,671 | 105 | 483 | 304 | 66.2 |
| 1920 | 37 | .. | 37 | (a) 13,342 | (b) 322 | 13,664 | 107 | 514 | 350 | 72.8 |

(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, 1920, 13,975 houses had been connected with the sewers. The revenue of the Sewerage and Drainage undertaking for 1918-19 was £54,457, as against £53,258 for the preceding year. The maintenance expenditure for the year amounted to £15,455, and interest and sinking fund charges to £48,871.

(iii) *Goldfields Water Supply Undertaking.* During the financial year 1919-20, the amount of water drawn for the Helena reservoir was 1,344,000,000 gallons, an increase on the previous year of 8,000,000 gallons. The gross revenue was £176,364, and the working expenses £93,238, leaving a surplus available towards interest and sinking fund of £84,126. The outlay for interest and sinking fund charges in respect of supplementary capital absorbed £33,523, leaving £50,603, 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 £118,210. Reticulation figures are as follows:—Towns reticulation, 238 miles; supply mains to towns, 80 miles; supply mains to mining centres, 72 miles; agricultural extensions, 480 miles; total mains, including main conduit, 1,221.

(iv) *Water Supplies for Towns.* Under the Water Boards Act 1904, the following water undertakings are administered by the Department:—Bridgetown, Brookton, Collie, Cue-Day Dawn, Geraldton, Leonora, Meekatharra, Menzies, Ora Banda, and Pingelly. Water supplies for Albany, Broome, Bunbury, Busselton, Carnarvon, Derby, Katanning, Port Hedland, Roeburne, Sandstone, Wagin, and Wyndham are administered by local boards under the supervision of the Department.

(v) *Mines Water Supplies.* At the present time the water stations under the control of the 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 2,520 shallow bores put down, fresh water was obtained in 429, and stock water in 219, the others being salt or dry. The number of tanks excavated to 30th June, 1920, was 361; in addition, four tanks were enlarged, making a total approximate capacity of 131,956,000 gallons, and the number of wells sunk 299. The capital expenditure for the financial year ending June, 1920, was £9,673.

(vii) *Land Drainage.* Under the Land Drainage Act 1900 the drainage undertaking for the Torbay-Grassmere District, Wonnerup, and portion of Harvey and Waroona are

administered by the Department. Undertakings controlled by Boards under the same Act are East Jandakot, Harvey, Njookenbooroo, Stirling, Saidie, Wungong, Benger, and Wagerup.

6. *Tasmania.*—(i) *Hobart Water Supply.* The total capital cost to 30th June, 1921, was £368,789, but a considerable amount of reticulation work has been done out of revenue and not charged to capital account. The outstanding loans at 30th June, 1921, amounted to £317,805. At the same date the number of tenements supplied in the city and suburbs was 9,300, 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 | 29,570 |
| Expenditure | 27,676 | 28,794 | 26,490 | 27,468 | 30,696 | 32,175 |

(ii) *Hobart Sewerage System.* Up to 30th June, 1921, 74½ miles of sewers had been laid at a cost of about £196,943, and 7,319 tenements had been connected. The revenue for the year was £18,325. The suburb of New Town was amalgamated with the city on the 1st January, 1920, and the survey and plans for sewerage in this area are now being proceeded with. In connexion with the Queensborough District, now being sewerage, 9½ miles of sewers were laid up to 30th June, 1921, at a cost with outfall of £65,602, and 76 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 shews 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 1916 TO 1920.

| 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 |
| 1916.. | 274,551 | 17,630 | 197,540 | 489,721 | 171,951(c) | 7,948,756 | 289,256 | 28,514 |
| 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 |

(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 1916 TO 1920.

| 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 |
| 1916 .. | 2,092,918 | 28,253 | 3.24 | 46,581 | 11,268 | 58.05 |
| 1917 .. | 1,938,130 | 31,697 | 3.93 | 43,847 | 11,950 | 65.41 |
| 1918 .. | 1,319,455 | 26,780 | 4.87 | 36,577 | 16,367 | 107.39 |
| 1919 .. | 1,848,993 | 26,981 | 3.50 | 45,711 | 19,263 | 101.14 |
| 1920 .. | 1,345,287 | 37,140 | 6.62 | 42,292 | 25,547 | 127.95 |

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, &c. 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 wharves are being erected. Extensive shed accommodation is being provided on the Victoria Dock wharves, and a new central pier has been completed. The river and dock wharves carry sheds. The total length is 18,364 feet, covering an area of 987,580 square feet. The quantity of material raised by the dredging and excavation done in the improvement of the river and bay amounts to 69,000,000 cubic yards. During the ten years ending 31st December, 1920, the average cost of dredging per cubic yard was 2.96 pence and the cost of towing and depositing 4.28 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 2,652,000 cubic yards.

(ii) *Financial Operations.* The following table gives particulars of the revenue and expenditure of the Trust from 1916 to 1920 inclusive :—

MELBOURNE HARBOUR TRUST.—REVENUE AND EXPENDITURE, 1916 TO 1920.

| Particulars. | 1916. | 1917. | 1918. | 1919. | 1920. |
|--------------|-------|-------|-------|-------|-------|
|--------------|-------|-------|-------|-------|-------|

REVENUE.

| | £ | £ | £ | £ | £ |
|----------------------------|---------|---------|---------|---------|---------|
| Rates, rents, etc. | 311,395 | 312,654 | 314,777 | 323,253 | 380,203 |
| Interest | 170 | 31 | 123 | 193 | 46 |
| Other receipts | 11,109 | 7,610 | 10,691 | 10,851 | 10,253 |
| Total | 322,674 | 320,295 | 325,591 | 334,297 | 390,502 |

EXPENDITURE.

| | £ | £ | £ | £ | £ |
|---|---------|---------|---------|---------|---------|
| Management and general expenses .. | 56,265 | 49,205 | 45,373 | 45,570 | 51,178 |
| Interest | 88,372 | 93,996 | 95,980 | 104,245 | 106,735 |
| Total | 144,637 | 143,201 | 141,353 | 149,815 | 157,913 |
| Less standing charges added to works .. | 21,135 | 19,632 | 23,595 | 23,495 | 29,150 |
| Total | 123,502 | 123,569 | 117,758 | 126,320 | 128,763 |
| Wharfage and other refunds | 1,140 | 1,378 | 2,382 | 1,677 | 2,529 |
| Charges remitted on troopships | .. | .. | .. | .. | .. |
| Consolidated revenue of Victoria | 60,000 | 60,000 | 62,305 | 62,460 | 75,554 |
| Flotation of loan expenses | .. | 1,005 | 3,012 | 7,956 | 300 |
| Redemption of loans expenses | .. | .. | 2,392 | 4,499 | .. |
| Maintenance | 53,375 | 70,112 | 35,706 | 77,766 | 105,147 |
| Total expenditure | 238,017 | 256,064 | 223,555 | 280,678 | 312,293 |
| Surplus on revenue account | 84,657 | 64,231 | 102,036 | 53,619 | 78,209 |
| Less depreciation and renewals account and sinking fund | 51,364 | 51,747 | 52,000 | 52,500 | 52,500 |
| Net surplus on revenue account | 33,293 | 12,484 | 50,036 | 1,119 | 25,709 |

**MELBOURNE HARBOUR TRUST.—REVENUE AND EXPENDITURE,
1916 TO 1920—continued.**

| Particulars. | 1916. | 1917. | 1918. | 1919. | 1920. |
|----------------------------------|----------------|----------------|----------------|----------------|----------------|
| CAPITAL EXPENDITURE. | | | | | |
| | £ | £ | £ | £ | £ |
| Land and property | 1,316 | 588 | 1,153 | 964 | 3,221 |
| Deepening waterways | 82,429 | 50,871 | 108,037 | 68,746 | 80,720 |
| Wharves construction | 105,803 | 62,246 | 37,321 | 77,305 | 50,084 |
| Approaches construction | 8,960 | 6,201 | 11,417 | 3,774 | 2,364 |
| Other harbour improvements | 35,946 | 26,923 | 7,352 | 3,068 | 2,936 |
| Floating plant | 25,190 | 3,814 | 811 | 1,435 | 834 |
| General plant | 2,853 | 1,728 | 130 | 509 | 883 |
| Stock account | 21,784 | 4,686 | .. | .. | .. |
| Total | 284,281 | 157,057 | 166,221 | 155,801 | 141,042 |

4. Geelong Harbour Trust.—To the 31st December, 1920, this Trust had borrowed £591,000. The sinking fund at the same date stood at £27,954. The revenue receipts for the year 1920 were £50,020, and the disbursements £60,625.

5. Bundaberg Harbour Board.—The Harbour Board consists of eight members, instead of nine as heretofore, representing the district shire councils and the shipowners and exporters, with one Government nominee. The total exports for the year ending 31st December, 1920, amounted to 7,243 tons, as against 17,865 tons for the previous year. The decrease was owing to shipping troubles and prolonged drought. The principal items of export were:—Raw sugars, 235 tons; refined sugars, 2,196 tons; syrups and molasses, 444 tons; rum and spirits, 2,941 tons; copper ores, 120 tons. The revenue for 1920 amounted to £4,838, as against £5,470 for 1919; the expenditure for 1920 was £5,834 as compared with £6,751 for 1919. Dredging resulted in 28,500 tons of silt, etc., being lifted and deposited at sea.

6. Cairns Harbour Board.—For the year ended 31st December, 1920, the receipts from harbour and berthage dues and miscellaneous items amounted to £32,332, while the revenue from taxes and fixed rates was £30,257. The total income amounted to £34,826. The principal items of export were:—Raw sugar, timber, maize, fruit, meat, and tallow.

7. Rockhampton Harbour Board.—The principal items of export by water in 1920 were—wool, 26,215 bales; preserved and frozen meats, 6,776 tons; tallow, 1,420 tons; blister copper, 6,587 tons; and gold, £405,251 in value. For the year 1920 the receipts were £38,159, including loan advances, £14,835; and the expenditure was £43,554, including £8,991 interest on loans. The total net registered tonnage entering the port in 1920 was 422,105.

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 for the year ending 30th June, 1920, was £39,296, making the total capital expenditure to that date £377,688. The revenue for the year was £16,487, and the expenditure £8,013, the balance being paid into Consolidated Revenue to meet interest and sinking fund. The export tonnage for the year was made up as follows:—Jarrah timber, 87,246 loads of 50 cubic feet; wheat, 38,992 tons; coal (bunker), 16,314 tons; and miscellaneous goods, 747 tons; the total export value being £865,000. The total import tonnage was 8,235 tons.

9. **Fremantle Harbour Trust.**—For the year ended 30th June, 1920, the total revenue of the Fremantle Harbour Trust was £281,600, and the expenditure £130,740. The gross amount paid to the Treasury for the year was £149,686, being interest £73,872, sinking fund £19,301, renewals fund £2,000, and surplus revenue £54,513.

10. **Burnie and Table Cape (Tasmania) Marine Board.**—A breakwater has been constructed 1,250 feet in length with a depth alongside up to 42 feet at low water, together with three timber wharves, two 500 feet and one 400 feet long. The revenue for the year 1920 was £12,491, and the expenditure £18,015, including £13,473 interest on construction loan.

11. **Hobart Marine Board.**—The total capital debt on properties in connexion with the Harbour Trust vested in the Board is £106,350. The interest paid in 1920 amounted to £4,350, and the contributions to sinking fund, £1,235. The receipts and expenditure of the Board for the last five years were as follows :—

HOBART MARINE BOARD.—RECEIPTS AND EXPENDITURE, 1916 TO 1920.

| Year. | Receipts. | | | Expenditure. | | |
|--------------|-----------|--|--------|--------------|-----------------------|--------|
| | General. | Harbour Improvements, Debentures, etc. | Total. | General. | Harbour Improvements. | Total. |
| | £ | £ | £ | £ | £ | £ |
| 1916 | 22,800 | 6,062 | 28,862 | (a) 21,803 | 7,801 | 29,604 |
| 1917 | 17,294 | 6,627 | 23,921 | (b) 17,247 | 5,212 | 22,459 |
| 1918 | 20,046 | 3,775 | 23,821 | (c) 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 |

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

12. **Launceston Marine Board.**—The total capital debt on 31st December, 1920, was £263,718, of which £216,480 was incurred on the Tamar Improvement Scheme. The revenue for 1920 was £39,569 and the expenditure £40,865.

§ 5. Fire Brigades.

1. **New South Wales.**—*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, 1916 TO 1920.

| Year. | Receipts. | | | | | | Disbursements. |
|-------|------------------|----------------------|--------------------------------|-------------|---------------------|---------|----------------|
| | From Government. | From Municipalities. | From Fire Insurance Companies. | From Firms. | From other Sources. | Total. | |
| | £ | £ | £ | £ | £ | £ | £ |
| 1916 | 29,071 | 29,071 | 28,883 | 188 | 2,205 | 89,418 | 98,934 |
| 1917 | 34,283 | 34,283 | 33,562 | 721 | 4,103 | 106,952 | 103,539 |
| 1918 | 34,231 | 34,231 | 33,858 | 373 | 3,950 | 106,643 | 107,104 |
| 1919 | 34,198 | 34,198 | 33,819 | 379 | 4,339 | 106,933 | 115,637 |
| 1920 | 47,808 | 47,808 | 47,218 | 589 | 3,815 | 147,238 | 143,262 |

The Sydney fire district includes the City of Sydney and suburbs, comprising a total area of 258 square miles. On the 31st December, 1920, the Board had under its control in this district 64 stations, 311 permanent men, 167 partially paid firemen, 10 steam and 51 motor fire engines, 28 horses, 140,690 feet of hose, and 512 telephone fire-alarms. The length of wire used for telephone lines was 1,281 miles.

2. Victoria.—(i) *Metropolitan Fire Brigades Board.* On the 30th June, 1920, this Board had under its control 41 stations, 250 permanent men, 102 partially-paid firemen, 48 special service firemen, 6 motor drawn steam fire engines, 8 petrol motor fire pumps, 47 other petrol motor appliances, 2 steam fire engines, 100,872 feet of hose, and 343 fire-alarm circuits having 1,058 street fire alarms, 1,038 containing telephones. The following table gives particulars as to the financial operations of the Board during each year from 1915 to 1919–20 inclusive :—

**VICTORIA.—REVENUE AND EXPENDITURE OF METROPOLITAN FIRE
BRIGADES BOARD, 1915 TO 1919–20.**

| Particulars. | 1915. | 1916. | 1917–18. | 1918–19. | 1919–20. |
|---------------------------------|---------------|---------------|---------------|---------------|----------------|
| ORDINARY RECEIPTS. | | | | | |
| | £ | £ | £ | £ | £ |
| Contributions | 77,794 | 86,771 | 84,418 | 85,569 | 95,225 |
| Receipts for services | 6,634 | 7,595 | 6,645 | 7,197 | 9,651 |
| Interest and sundries | 9,957 | 4,110 | 1,960 | 2,766 | 3,593 |
| Total | 94,385 | 98,476 | 93,023 | 95,532 | 108,469 |

ORDINARY EXPENDITURE.

| | | | | | |
|-------------------------------------|---------------|---------------|---------------|---------------|----------------|
| | | | | | |
| Salaries | 52,633 | 55,612 | 58,900 | 60,915 | 67,060 |
| Interest and sinking fund | 11,442 | 13,397 | 13,610 | 14,971 | 12,970 |
| Other expenditure | 25,744 | 24,566 | 25,057 | 20,968 | 26,963 |
| Total | 89,819 | 93,575 | 97,567 | 96,854 | 106,993 |

(ii) *The Country Fire Brigades Board.* At the end of the year 1920 there were 111 municipal councils and 76 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 2,488 registered firemen at the end of the year 1920.

For the year 1920 the receipts of the Country Fire Brigades Board amounted to £18,816 and the expenditure to £18,544.

3. Queensland.—In the year 1919 there were thirty fire brigades organised in various towns in Queensland, and the following table gives particulars of revenue and expenditure for the year 1919 :—

QUEENSLAND.—FIRE BRIGADES, 1919.

| Receipts. | Amount. | Expenditure. | Amount. |
|-----------------------------|---------|-------------------------------------|---------|
| | £ | | £ |
| From Government | 12,135 | Salaries and wages | 23,090 |
| „ Local authorities | 12,162 | Building, repairs, etc. | 4,937 |
| „ Insurance companies | 12,266 | Plant, stores, clothing, etc. | 4,938 |
| „ Other sources | 1,793 | Other | 5,676 |
| Total | 38,356 | Total | 38,641 |

At the end of the year 1919 the fire brigades staffs comprised 111 permanent men, 213 partially paid, and 100 volunteers. The Metropolitan Brigade at Brisbane and the South Brisbane brigade protect an area of $9\frac{1}{2}$ square miles; their joint staffs comprise 70 men. They have three steam engines, four motor turbines, nine reels, consisting of four horse, two motor, and three hand reels, and 26,753 feet of hose. There are 2 telephone fire alarms and 199 call points.

4. South Australia.—The revenue of the Fire Brigades Board in 1920 amounted to £33,568. 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, and Balaklava. The strength of the brigades consists of 99 permanent firemen and 49 auxiliary firemen. The plant consists of 5 steam fire engines, 1 motor engine, 17 motor hose carriages, 1 floating fire engine, 4 hose reels, and 9 horses. The number of calls received during the year 1920 was 412, of which 16 were to fires of a serious nature. Of the total calls, 240 were in the metropolitan district.

5. Western Australia.—The receipts of the Western Australian Fire Brigades Board for the year 1920 amounted to £30,199, and the expenditure to £33,422. The whole of the brigades throughout the State are now controlled by this Board, and number four permanent, seven permanent and partially paid, six permanent and volunteer, one partially paid, and twenty-four purely volunteer brigades; making a total of forty-two. The staff includes a chief officer, deputy chief officer, third officer, motor engineer, electrical engineer, 11 other officers, 70 permanent firemen, 31 partially-paid firemen, and 555 volunteer firemen.

6. Tasmania.—The expenditure for the year 1920 for the Hobart Fire Brigade amounted to £4,790. There are also volunteer brigades under the control of local boards in most of the larger centres of population.

§ 6. Local Government Finance.

1. Introduction.—In the preceding parts of this section certain particulars have been given regarding local authorities in each individual State. It is proposed to give here in a comparative form, for each State particulars regarding the financial operations of local governing bodies. The particulars given in the tables in the two next paragraphs

relate to financial years ending as follow :—New South Wales : for the calendar year 1919. Victoria : 30th September, 1919, except Melbourne, 31st December, and Geelong, 31st August, 1919. Queensland : calendar year 1919. South Australia : Corporations, 30th November, and district councils, 30th June, 1919. Western Australia : 31st October, 1919, except road districts, 30th June, 1919. Tasmania : calendar year 1919.

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, 1919.

| Particulars. | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tasmania. | C'wealth. |
|--------------------------------|--------|-----------|---------|----------|----------|-----------|-----------|
| No. of local authorities(a) .. | 319 | 190 | 171 | 184 | 141 | 50 | 1,055 |

RECEIPTS.

| | £ | £ | £ | £ | £ | £ | £ |
|--------------------------------|-----------|-----------|-----------|---------|---------|---------|------------|
| Rates— | | | | | | | |
| General .. | 2,678,636 | 1,560,968 | 823,877 | 278,617 | 225,699 | 66,713 | 11,346,232 |
| Other (b) .. | | 344,827 | 322,368 | 104,149 | 113,791 | 173,948 | |
| Government grants .. | | 96,429 | 86,833 | 63,835 | 31,287 | 33,967 | |
| Loans (c) and other sources .. | 2,377,964 | 877,901 | 250,871 | 137,113 | 387,231 | 304,258 | |
| Total .. | 5,056,600 | 2,880,125 | 1,488,949 | 583,714 | 758,008 | 578,886 | |

EXPENDITURE.

| | | 1,907,881 | 1,085,499 | 461,511 | 465,635 | 398,101 | 11,434,180 |
|-------------------------------------|-----------|-----------|-----------|---------|---------|---------|------------|
| Works, services, etc. | | | | | | | |
| Interest on loans and overdrafts .. | | 257,057 | 19,423 | 15,160 | 85,094 | 101,796 | |
| Redemptions, sinking funds, etc. .. | 4,978,713 | 137,688 | 39,005 | 17,341 | 57,554 | 23,444 | |
| Administration .. | | 226,692 | 165,632 | 71,262 | 61,859 | 39,338 | |
| Other .. | | 388,570 | 269,417 | 45,006 | 92,690 | 22,812 | |
| Total .. | 4,978,713 | 2,917,888 | 1,578,976 | 610,280 | 762,832 | 585,491 | |

VALUATIONS.

| Capital value of property .. | Annual value of property .. | | | | | | |
|------------------------------|-----------------------------|------------|------------|-------------|------------|--------------|--|
| £207,673,921 | 357,437,822 | 63,907,745 | 99,905,202 | £26,172,435 | 37,121,328 | £792,218,453 | |
| (e) | 19,027,492 | (e) | 5,066,592 | £1,506,691 | 1,872,336 | (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, 1919.—The following table gives particulars for each State of loans raised by local authorities during the year 1919, of loans current at the end of that year, of liability on account of interest and sinking fund, and of loans maturing during 1919 :—

PARTICULARS OF LOANS RAISED BY LOCAL AUTHORITIES, 1919.

| Particulars. | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tasmania. | C'wealth. |
|--|-----------|-----------|-----------|----------|-----------|-----------|------------|
| £ | £ | £ | £ | £ | £ | £ | £ |
| Loans from general Govern- ment— | | | | | | | |
| Raised during year .. | .. | 19,286 | 81,020 | .. | .. | 26,455 | 126,761 |
| Current at end of year .. | .. | 1,502,899 | 495,755 | .. | 63,023 | 596,394 | 2,658,071 |
| Loans from other sources— | | | | | | | |
| Raised during year .. | 666,300 | 143,316 | .. | 16,350 | 19,723 | 140,203 | 985,892 |
| Current at end of year .. | 9,100,428 | 3,538,530 | 1,052,974 | 367,762 | 1,796,432 | 1,333,257 | 17,189,383 |
| Total— | | | | | | | |
| Raised during year .. | 666,300 | 162,602 | 81,020 | 16,350 | 19,723 | 166,658 | 1,112,653 |
| Current at end of year .. | 9,100,428 | 5,041,429 | 1,548,729 | 367,762 | 1,859,455 | 1,929,651 | 19,847,454 |
| Current loans, exclusive of those obtained from general Government, raised within the Commonwealth .. | (a) | 3,538,530 | (a) | 367,762 | (a) | 471,918 | (a) |
| Annual liability on account interest .. | (a) | (a) | 19,114 | 16,455 | 86,843 | 93,845 | (a) |
| Total sinking fund at end of year .. | (a) | 466,225 | (a) | 23,729 | 381,771 | 197,489 | (a) |
| Amount of loans maturing during year— | | | | | | | |
| Redeemed | (a) | (a) | .. | 15,870 | 19,272 | 34,965 | (a) |
| Renewed | .. | (a) | .. | 700 | .. | 1,825 | (a) |

(a) Not available.