MUNICIPAL STATISTICS.

Amongst the various enactments which became law for Victoria on its separation from New South Wales, was a provision in the Imperial Act authorizing the Governor to incorporate the inhabitants of every county, to form districts for the purpose of local government, and to establish elective District Councils, with power to frame by-laws for making and maintaining roads, establishing schools, levying local tolls and rates, &c. Many of the provisions of the Act were found to be unworkable and expensive in the details, and the District Councils therefore discontinued their meetings and practical working under the Act. Improved legislation being required, an Act was passed in 1853, establishing a central Road Board for the whole Colony, with an Inspector-General and staff, and also providing for the creation of local Road Districts under the management of Road Boards. This Act made provision chiefly for local government in country districts, and the greater part of it remained in force until 1863, when it was repealed, and replaced by the Roads Districts and Shires Act. In the meanwhile suburban districts and towns were growing up, and in 1859 an Act was passed for the establishment of municipal institutions in Victoria. This Act also continued in force till 1863, when its chief provisions were merged into the Municipal Corporations Act. Further improvements and extensions have been made from time to time in the Acts dealing with local government, and it is now practically universal throughout Victoria, the whole area of the State (except French Island) being divided into urban or rural municipal districts. The former are called cities, towns, and boroughs, and the latter shires.

The laws relating to local government were amended and consolidated by the Local Government Act 1915. The councils of municipalities have power to levy rates, which, together with licence-fees, subsidies received from the State, market dues, rents, and sanitary charges, form their chief sources of income. Their principal functions are to make, maintain, and control streets, roads, bridges, ferries, culverts, sewers, drains, water-courses, and jetties within their respective boundaries; and, under proper by-laws, to control the traffic and regulate the markets, pounds, abattoirs, baths, and places of recreation; also to make arrangements for sewerage, lighting, water supply, and carrying on of noxious trades, and to act as local Boards of Health.

Any portion of Victoria, not exceeding in area nine square miles, and having no point in such area distant more than six miles from any other point therein, which contains at least 500 inhabitant householders, and rateable property capable of yielding £300 per annum upon a rate of one shilling in the pound, may be constituted a borough. Any borough having during the preceding financial year a revenue of £10,000 may 5581.—M

be declared a town; or, having a revenue of £20,000, may be declared a city. Any portion of Victoria containing rateable property capable of yielding £1,500 on a rate of one shilling in the pound may be constituted a shire. There are 52 cities, towns, and boroughs in Victoria, and 141 shires. The Governor in Council may unite any two or more boroughs which form one contiguous area so as to form one borough, notwithstanding that the area would exceed the limits above specified; may unite any number of municipalities, one of which is a shire, which form one contiguous area, so as to form one shire; and may sever any portion of a municipal district and attach it to another, annex an outlying district, subdivide any municipal district into any number of divisions not exceeding eight, alter the boundaries, or abolish the subdivisions.

On petition by twenty-five ratepayers resident in any portion, not exceeding three square miles in extent, of any shire, and distant more than ten miles from the City of Melbourne, the Governor in Council may proclaim such portion a township.

Each municipality existing at the commencement of the original Act, 29th December, 1854-now incorporated in the Municipal councillors. Act of 1915-is allowed the number of councillors then assigned to it; but in other cases the number must be some multiple of three, not less than six nor more than 24. The number is usually nine. If the district is subdivided, the number of councillors is three for each subdivision. If at any time in any municipality there is no council or there are not enough councillors to form a quorum, a commissioner may be appointed by the Governor in Council to exercise the powers of the council. Male persons liable to be rated in respect of property in the municipal district of the rateable annual value of £20 at least, whether consisting of one or more tenements, are qualified to hold the office of councillor. The election of councillors takes place One-third of the councillors retire each year by rotation, but retiring councillors may be re-elected. The councillors elect their own chairman; who, in the case of cities, towns, and boroughs, is called the mayor; in the case of shires, the president.

Every person (male or female) 21 years of age or upwards, liable to be rated in respect of property within a municipal district, in respect of which all rates, made before 10th March of the year, have been paid, shall be entitled to be enrolled as a voter. Plurality of votes is allowed upon the following scale:—

IN CITIES, TOWNS, AND BOROUGHS.

Properties rated	at an annual value of under £50	One vote.
	£50 to £100	1 WO VOUCE
,, ,, ,,	", ", £100 and u	pwards Inter votes.

IN SHIRES.

Properties rated at an annual value of under £25	One vote.
£25 to £75	Two votes.
275 and upwar	

No person may be enrolled in respect of property rated under £5 a year, unless there is a house on the property, and he resides there. The occupier and the owner are not to be both enrolled in respect of the same property, the former having the prior right to enrolment. Corporations liable to be rated may nominate not more than three persons to be enrolled in their stead, and joint occupiers and owners, not exceeding three, are each entitled to be enrolled. If there be more than three, then the three standing first on the last rate valuation or return are so entitled. The Voting by Post Act 1915 may be made applicable to the elections for any municipality on the petition of the councillors.

All land situated in a municipal district is rateable Rateable property except the following: - Crown lands; land used exclusively for commons, mines, public worship, mechanics' institutes, public libraries, cemeteries, primary free schools, and charitable purposes; land vested in or held by or in trust for any municipality, local governing body, or commissioners under the Water Acts; and land vested in fee in the Railways Commissioners, Minister of Public Instruction, Board of Land and Works. Harbor Trust Commissioners, and Melbourne and Metropolitan Board of Works. The expression "land" includes, of course, all buildings and improvements thereon. For the purpose of rating the valuation of property is computed at its net annual value, that is to say, at the rent at which the same might reasonably be expected to let from year to year, free of all usual tenants' rates and taxes, and deducting therefrom the probable annual average cost of insurance and other expenses (if any) necessary to maintain the property in a state to command such rent: provided that no rateable property shall be computed as of an annual value of less than £5 per centum upon the fair capital value of the fee-simple thereof. In the case of certain Crown lands, held for pastoral purposes only, the provision that the annual value must not be less than 5 per cent. on the capital value does not apply, but the occupier is rated on the actual net annual value of the property.

Rates—general, viz.:—General, extra, and separate rates. General rates are levied at least once in each year by the council of every municipality, and shall not exceed in any one year 2s. 6d. in the pound of the net annual value, or be less than 6d. in the pound of such value. Every general rate is made and levied on the occupier of the property rated, or, if there be no occupier, or the occupier be the Crown or a public or local body, then upon the owner of the property. Extra rates may be levied in any one or more subdivisions of a district, on requisition by not less than two-thirds of the councillors for the subdivision, provided that both rates together in any subdivision do not exceed 2s. 6d. in the pound. Extra rates are levied on all properties alike in the subdivision; but, where any works or undertakings are for

the special benefit of any particular portion of the municipal district, "a separate rate" may be levied, with the consent of a majority of the occupiers, and of one-third at least of the owners of the properties affected. The rates to be levied may be differential, according to the benefits to be received by different properties, and the amount of the rate must be such as will, in the opinion of the council, suffice to provide for the payment of interest, and periodical repayments of, or sinking fund for, the loan raised on the security of such rate.

Where under any Act a council is empowered to execute any work at the cost of the owners, or to require such owners Improvement to do so, a special improvement charge may be made on the properties affected, on the security of which money may be borrowed for the carrying out of such work.

Melbourne and Geelong-the latter of which for many Incorporation of Melbourne and Geelong. years ranked next in importance to the metropolis-having been incorporated under special statutes prior to the establishment of municipal government on a large scale throughout the State, are not subject to the Local Government Acts, except in a few comparatively unimportant particulars. Melbourne was incorporated as a town in 1842, and was ordained a city in 1847. Geelong was incorporated as a town in 1849, and proclaimed a city in 1910.

Amalgamation

Under the provisions of the Local Government Acts Amendment Act 1914 the following municipalities were Municipalities. united from the 1st October, 1915:-

BOROUGHS.

Majorca, united with Shire of Tullaroop Carisbrook, united with Shire of Tullaroop Raywood, united with Shire of Marong Buninyong, united with Shire of Buninyong Browns and Scarsdale, united with Shire of Grenville Smythesdale, united with Shire of Grenville Tarnagulla, united with Shire of Bet Bet Malmsbury, united with Shire of Kyneton Talbot, united with Shire of Talbot.

SHIRES.

Epping, united with Whittlesea Mount Alexander, united with Newstead Meredith, united with Bannockburn Mount Franklin, united with Glenlyon Templestowe, united with Doncaster Merriang, united with Broadmeadows.

The total number of municipalities throughout the State in which local government was being administered at the Municipalities: 1911-12 to. 1915-16. end of the year 1915 was 193. Of these, 18 ranked as cities, 7 as towns, 27 as boroughs, and the remainder (141) The following is a summary of the estimated population, number of ratepayers, estimated number of dwellings (inhabited and uninhabited), total and annual value of rateable property, and annual revenue of cities, towns, boroughs, and shires in each of the five years ended 1915-16.

MUNICIPALITIES: 1911-12 TO 1915-16.

Year.	Popula- of Rate-		Estimated of Dwell		Estimate o Rateable	_Total	
		payers.	In- habited.	Unin- habited.	Total.	Annual.	Revenue.
Cities, Towns, and							
Boroughs—		er de la late					
1911-12	742.070*	194.391	154,083*	4,682*	119,400,893	6,804,697	1,149,044
1912-13	777,696	200,679	101,000	±,002	127,743,501	7,270,972	1 259,569
1913-14	802,479	203,773	173.646	2,895	137,649,219	7,790,654	1,320,545
1914-15	825,078	209,276	180,410	3,725	147,205,224	8,218,040	1,378,006
1915-16	824,170	208,759	182,445	3,293	149,235,137	8,335,553	1,010,000
Shires—			1		,,,	0,000,000	
1911-12	568.494*	168,229	118,552*	6,549*	155,677,624	7,969,963	796,472
1912-13	583,909	173,271			160,128,933	8,152,473	840,080
1913-14	600,431	175,637	152,654	3,748	164,268,467	8,255,505	854,483
1914-15	608.828	181,480	134,349	3,530	167,405,523	8,517,938	827,466
1915-16	617,587	184,374	137,799	3,619	169,724,979	8,606,509	
Total—							
1011 10	1,310,564*	362,620	272,635*	41 0014	075 050 545		
1912–13	1,361,605	373,950	272,035	11,231*	275,078,517	14,774,660	1,945,516
	1,402,910	379,410	326,300	6,643	287,872,434	15,423,445	2,099,649
1914-15	1,433,906	390,756	314,759	7,255	301,917,686 314,610,747	16,046,159	2,175,028
101E 10	1,441,757	393,133				16,735,978	2,205,472
1a1010	1,441,757	393,133	320,244	6,912	318,960,116	16,942,062	

^{*} Census figures.

Increases in value of rateable properties an municipal

It will be observed from the following figures that there has been a very substantial increase in the estimated value of rateable property and in the revenue of municipalities during the period covered by the foregoing table:—

INCREASE IN VALUE OF PROPERTIES AND IN MUNICIPAL REVENUE.

가는 사람들이 되었다. 그는 사람들이 다음하는 것은 것이다. 그런 일본 사람들이 되었다. 그런 사람들이 되었다. 그런 것이다.		Increase.	
하는 것은 말로 하는 것으로 하는 것 소설 없는 하는 것으로 보는 것으로 하는	1915-16 ove	r 1911-12.	1914-15 over 1911-12.
	Estimated Rateable I		Revenue
	Total.	Annual	all sources.
Cities, Towns, and Boroughs	£	£	£
Shires	29,834.244 14,047,355	1,530,856 636,546	228,962 30,994
Total Increase	43.881,599	2,167,402	259,956

The number of ratepayers returned for 1915-16 was 393,133, and the total capital value of rateable property £318,960,116, which is equivalent to about 183 years' purchase on the basis of the annual value of £16,942,062.

Properties reted in municipalities The properties upon which the municipalities have levied rates during the past five years have steadily increased, as is shown in the following statement:—

NUMBER OF PROPERTIES RATED IN MUNICIPALITIES, 1911-12 TO 1915-16.

		Properties Rated.	
Year.	In Cities, Towns, and Boroughs.	In Shires.	Total.
1911–12	227,327	222,348	449,675
1912-13	233,939	231,904	465,843
1913-14	240,077	241,923	482,000
1914–15	247,802	249,434	497,236
1915-16	248,100	255,958	504,058

The following is a statement of the estimated populacities, towns, tion, number of ratepayers, total and annual value of rateableberoughs, property, annual endowment payable by the Government,
total revenue, and amount of rate levied in the £1 in each
city, town, and borough in Victoria. The information relates to the
municipal year, 1915-16, except as regards the item "revenue," which
is for 1914-15:—

CITIES, TOWNS, AND BOROUGHS, 1915-16.

Name. Popula	Estimated	Number	Amount of General	Estimated Rateable I		Total Revenue	Annual Endow- ment pay- able by the
	Popula- tion.	Rate- payers.	Rate levied in the £1.	Total.	Annual.	1914-15.	Govern- ment under Act No. 2805.
CITIES.			8. d.	4	£	£	£
Ballarat Bendigo Brunswick Camberwell Cauffield Gollingwood Essendon Fissey Footsoray Geeloag Hawthorn Malvern Melbourne Northcote Prahran Rickwood South Melbourne St. Kilda	21,402 26,606 38,880 17,529 23,400 85,700 30,800 86,400 29,270 16,000 24,200 107,870 24,160 48,760 41,300 48,960 30,030	5,861 6,608 9,027 5,333 8,890 7,870 8,665 6,439 4,400 5,862 6,968 28,038 6,500 11,748 9,156 10,238 6,847	2 2 3 0 4 0 0 8 4 2 2 0 3 2 2 8 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,619,645 2,960,972 5,155,880 3,950,420 4,500,937 6,321,300 4,845,100 6,073,618 4,338,340 2,809,120 5,750,340 40,559,440 7,224,910 7,224,900 4,454,900 4,454,900 4,454,900	211,498 257,794 197,521 264,761 266,065 242,255 387,701 216,917 140,456 280,790 287,517 2,176,972 163,746 602,075 321,483 472,745	37,594 41,759 41,769 41,096 27,811 40,282 30,665 29,698 33,573 40,391 25,621 31,642 38,180 456,155 27,526 67,089 40,080 64,621 42,168	
Towns. Ballarat East Brighton Coburg Kew Port Melbourne Warnambool Williamstown	16,200 16,800 13,420 13,050 18,450 7,300 17,250	3,871 3,691 6,300 3,240 2,900 1,669 6,300	2 0 2 3 1 2 2 3 2 2 3 2 2 3 2 2 3	1,278,120 3,484,240 1,320,840 1,992,180 1,226,250 1,217,900 1,652,426	174,212 88,056 132,812 98,100 60,895	14,378 22,677 18,083 18,807 17,000 20,987 17,982	

CITIES, TOWNS, AND BOROUGHS-continued.

Name.	Estimated Popula-	Number of	Amount of General Rate	Estimated Rateable	Value of Property.	Total Revenue	Annual Endow- ment pay- able by the
	tion.	Rate- payers.	levied in the £1	Total.	Annual.	1914-15.	Govern- ment under Act No. 2805.
BOROUGHS. Ararat Browns and Scarsdale	4,500	1,060	s. d. 2 6	£ 263,130	£ 26,313	£ 9,744 322	£ 25
Buninyong Carisbrook	••	••	••			995	
Castlemaine Chewton	5,600 925	1,396 247	2 0 1 6	454,837 37,088	36,387 4,636	820 6,303 820	25 25
Clunes Creswick	1,800 2,165	413 596	1 6 1 9	63,609 83,620		2,748	37
Daylesford	3,821 1,170	814 342	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	284,625	18,975	2,527 3,617	37 25
Eaglehawk Echnoc	7,770 4,000	1,978 1,974	$\begin{array}{ccc} 1 & 0 \\ 2 & 0 \\ 2 & 0 \end{array}$	60,190 405,732	33,811	1,150 7,101	25 25
Geelong West	8,655	1.930	2 4	311,000 1.012,060	24,880 50. 6 03	6,661 10.005	25 25
Horsham	4,800 3,500	1,162 789	$\begin{array}{ccc} 2 & 3 \\ 2 & 6 \end{array}$	742,840 462,400	37,142 27,200	7,317 5,481	25 50
Koroit Majorca	1,250 2,442	330 404	$\begin{array}{ccc} 1 & 6 \\ 2 & 0 \end{array}$	79,320 323,740	6,610 16,187	1,670 3,240	25 25
Malmsbury		•		•	•	387 699	••
Mary borough Newtown and Chilwell	5,100 6,900	1,000 1,556	1 3 2 0	268,490 868,380	26,840 43,419	5,883 4,838	25 25
Oakleigh Portland	4,690 2,240	1,918 610	2 3 2 0	793,940 379,320	39,697 18,966	7,306 4,247	50 25
Port Fairy Queenscliff	2,000 1,630	502 538	2 0 2 0	229,560 246,520	11,478 12,326	4,252 2,197	25 50
Raywood Rutherglen	1,200	346	1 3	123,700	12,370	337 2,101	40
Sale Sebastopol	3,504 2,400	973 524	$\begin{bmatrix} 1 & 9 \\ 2 & 0 \end{bmatrix}$	397,080 85,620	19,854 7,135	7,847 1.506	25 40
Smythesdale Stawell .	4,500	975	2 3	197,770	19,777	233 7. 4 60	25
St. Arnaud	4,000	990	1 9	376,460	18,823	3,272 880	25 25
Tarnagulla Wangaratta	4,030	899	1 9	598,000	29,900	591 4,408	25
Wonthaggi	3,550	982	2 0	258,360	21,530	3,175	
Total	824,170 The next	208,759		149,235,137	8,335,553	1,378,006	779

The next table gives a list of the shires, and similar particulars to those shown for the cities, towns, and boroughs:—SHIRES, 1915-16.

Name.	Estimated Popula- tion.	Number of Rate- payers.	Amount of General Rate levied in the £1.	Estimated Value of Rateable Property. Total. Annual.		Total Revenue 1914–15.	Annual Endow- ment pay- able by the Govern- ment under Act No. 2805.
Alberton Alexandra Arapiles Ararat Avoca Avon Bacchus Marsh Bainnsdale Ballan Ballarat Bannockburn Barrarbool Baechus Marsh Beechus Marsh Beechus Marsh Bannockburn Barrarbool Beechus Beechus Beechus Beechus Beelfast	5,300 3,000 2,713 7,700 4,000 2,925 3,151 8,475 4,000 4,500 3,075 2,010 6,000 2,620	1,245 789 743 2,040 1,475 749 705 1,955 1,060 778 790 475 1,420 670	8. d. 1 3 1 0 1 0 1 0 1 6 1 0 1 6 1 0 1 4 1 3 1 4	£ 1,680,100 909,420 835,320 8,238,560 810,000 800,020 583,464 1,990,640 725,300 1,213,760 1,147,240 374,400 3,74,240 1,053,140	40,001 41,676 99,532 36,265 60,688 57,362 37,712 31,200	£ 8,890 4,667 2,573 10,570 3,320 4,445 4,041 11,485 3,455 2,463 3,219 7,411 4,576	£ 750 375 152 650 243 288 193 720 288 288 288 227 218 227 218

Shires—continued.

Name.	Estimated	Number	Amount of General	Estimated Rateable I		Total	Annual Endow- ment pay- able by the	
Name.	Popula- tion.	Rate- payers.	Rate levied in the £1.	Total.	Annual.	Revenue 1914–15.	Govern- ment under Act No. 2805.	
			s. d.	£	£	£	£	
Bellarine	4,820	1,810	1 3 1 0	1,037,720 2,451,600	51,886 122,580	4,143 10,684	243 725	
Benalla Berwick	8,300 7,400	2,900 2,500	1 6	1,624,200	81,210	8,318	500	
Berwick Bet Bet	4,600	1,102	1 0	624,580	31,229	2,030	212	
Birchip	1.900	515	1 0	1,041,740	52,087 125,959	2,129 8,780	200 540	
Borting	6,000 2,800	1,330 2,150	1 0	980,700	49,035	4,001	160	
Braybrook Bright	5,600	1,400	1 3	2,519,180 980,700 712,680 306,900	35,634	4.785	875	
Broadford	2,100	486	1 0	306,900	15,345	1,518 3,298	150 270	
Broadmeadows	3,403 2,600	1,749	1 3 1 3	1,210,640 611,460	00,000	3,986	175	
Bulla Buln Buln	4,900	417 1,386	1 6	1,061,480	53,074	6,590 4,301	625	
Bungaree	4,900	1,022	1 9	631,560	31,578	4,301	400	
Buninyong	6,750	2,112	1 3	1,270,200	63,510	4,961 3,617	300 275	
Charlton	3,300 2,650	514 753	1 0	1,056,660 223,970	22,397	2,536	115	
Chiltern	14,500	3,247	1 3	5,284,200	264,210	23,612	600	
Corio	3.000	904	1 6	1,213,560	60,678	5,212 5,358	250 350	
Cranbourne	4,400 5,000	1,409 1,081	1 6	1,159,340 1,108,320	57,967 55,416	4,341	388	
Creswick Dandenong	0.000	4,220	2 0	1,402,320	70,116	11,067	263	
Deakin	3,300	1.157	1 0	1,402,320 1,319,100	65,955	3,147	223 309	
Dimboola	6,400	1,260 769	1 6	1,711,980 866,220	85,599 43,311	4,630 4,068	288	
Donald			1 0	584,780	29,239	1.407	196	
Doncaster Dundas			1 0	2,032,460	101,623	8 109	525 600	
Dunmunkle	5,050	1,014	1 0	1,716,440	85,822	5,710 3,576	275	
East Loddon .	1,700	527 1,405	1 3 1 6	920,680 758,960	37,948	3.657	225	
Eltham Epping	3,575	1,200	1.0	**		1,621		
Euroa		1,136		1,126,22	56,311	6,126	375- 450	
Ferntree Gully .		2,350		926,400 862,78	46,320 43,139	6,615 3,828	130	
Flinders . Frankston an	3,650	2,169	1 3	002,70	40,100	1		
Hastings .		1,965		755,40	0 37,770	4,157	213	
Gisborne .	. 2,500	626		599,66	0 29,983 0 121,403	2,987 10,141	170 600	
Glenelg		1,547 1,178	1 0 1 3	2,428,06 326,57		1.531	227	
Glenlyon . Gordon		857	1 1 0	1 030 66	0 51.533	3,485	370	
Goulburn .	3,000) 562	1 0	675,08 726,79 5,558,10 325,14	0 33,754	2,965 4,413	175 302	
Grenville	5,995	$\begin{array}{c c} 1,678 \\ 2,320 \end{array}$	1 3	5 558 10	5 48,453 0 277,905	28 297	375	
Hampden Healesville	9,850			325,14	0 16,257	2,974	225	
Heidelberg .		4,500	16	2,248,82	() 112,44L	28,850	250 550	
Heytesbury .	5,000	1,165 280	1 6	1,696,38 80,52		8,740 725	100	
Howqua Huntly	1,400 3,500	1,009		906,80	0 45,340 0 59,507	3,031	200	
	4.20	0 1,360	1 6	1,190,14	0 59,507	4869	338	
Karkarooc .	5.50	0 1.34	5 1 1 0	2,845,46 420,76	0 117,273 0 21,038	5,595 1.622	475 50	
Keilor	1,02 9,25	5 541		2,986,36	0 149,318			
	2,00	0 54	2 1 6	205,51	0 20 551		138	
Korong	6,30	0 1.40	0 1 6	1,083,22	0 54.161	4,307 5,560	325 435	
	3,80	$ \begin{array}{c cccc} 0 & 1,32 \\ 0 & 2,18 \end{array} $	$egin{array}{c ccc} 1 & 1 & 0 \\ 2 & 1 & 0 \end{array}$	1,355,52	69,472	8,746		
2 0 13	7,82 1,00	0 2,10	9 1 3	1,389,44 261,89	20 13,091	1,149	76	
	3,30	0 62	4 1 3	545.13	30 36,342	3,190	198 275	
Leigh	. 1,62	4 02	5 1 3			3,937		
	1,90 6,65				20 68,256	8,750	400	
	4,10	0 1.30	0 1 3	812.0	40,602	3,159	300	
Maffra	4.25	0 1.09	5 1 1 0	1.446 1	10 72,307	7,519 3,128	500	
Maldon	4,30	$0 \mid 1,32$	8 1 0		00 34,000 59,08			
	3,65 6,70			1,802,9	60]:: 90,148	8 6.516	460	
	1,52				95 28,913	3 2,091	118	
Meredith	•• ••			1.37		2,017 1,186		
Merriang Metcalfe	2.76	71	3 1 0	499,9	20 24,99	6 1,76	139	

Shires—continued.

Name.	Estimated	Number of	Amount of General	Es ti mated Rateable I		_Total	Annual Endow- ment pay- able by the
	Popula- tion.	Rate- payers.	Rate levied in the £1.	Total.	Annual.	Revenue 1914–15.	Govern- ment under Act No. 2805.
Sen 3	0.500	4 405	8. d.	£	£	£	*
Mildura	6,500 2,000	1,427 562	$\begin{array}{ccc} 1 & 9 \\ 1 & 0 \end{array}$	1,329,880 1,301,700	66,494 65,085	11.653 6,041	238 325
Mirboo	1,450	351	1 6	488,700	24,435	2,511	350
Moorabbin	15,500	6,400	2 0	488,700 3,084,160	154,208	2,511 32,131	300
Mornington Mortlake	1,900 3,070	475 679	1 9 1 3	470,000 2,219,680	23,500 110,984	3,081 8,274	115 350
Morwell	3,200	867	1 3	915,860	45,793	4,752	450
Mount Alexander	• •	••	••		••	943	
Mount Franklin Mount Rouse	2,470	700	1 0	1,571,480	70 574	1,566	200
Mulgrave	2,750	894	2 0	514,480	78,574 25,724 37,591	5,768 3,640	200 225
McIvor	4,200	1.141	1 0	751,820	37,591	3,195	225
Narracan	5,400	1,425	1 6	1,219,580	60,979	7,410	700
Newham and Woodend	2,500	546	1 6	495 840	21.900	2,328	150
Newstead	3,835	1 058	1 0	425,840 532,640 657,280	21,292 26,632	1,500	168
North Ovens	2,600	802	1 0	657,280	32,864 122,656	2,542	148
Numurkah	6,890	1,699	1 0	2,453,120	122,656	9,754	600
Nunawading Omeo	9,292 3,200	3,573 1,405	2 2 1 6	1,676,540 854,480	83,827 42,724	12,474 5,923	475 850
Orbost	3,200	694	1 6	732,000	36,600	4,987	550
Oxley Phillip Island and	4,670	1,063	1 0	1,084,200	54,210	4,271	375
Woolamai	3,867	2,300	1 6	1,126,020	56,301	6,372	550
Poowong and Jeetho	7,500 5,300	1,595	1 3	1.829.980	91,499	10,962	1,000
Portland Preston	5,300	1,926	1 0 2 0	1,729,500	86,475	7,492	500
Preston Pyalong	7,109 1,150	2,897 350	1 0	1,122,000 424,000	56,100 21,200	10,850 1,367	325 115
Ripon	4,389	1,350	1 3	1.762.200	21,200 88,110	7,829	225
Rochester	5,051	1,539	1 0	1,260,600 2,034,840	63,030 101,742	5,677	250
Rodney Romsey.	6,718 2,000	1,631 478	1 0	2,034,840	101,742	7,669	438
Rosedale	4,000	1,078	1 0	482,360 1,545,200	24,118 77,260	2,256 6,632	137 500
Rutherglen	4,800	847	1 3	781.560	39.078	3,591	225
Seymour	4,100 8,300	1,107 1,700	1 0	826,440	41.322	4.448	425
Shepparton South Barwon	2,860	1,700 1,312	1 0 1 9	826,440 2,117,200 562,680	105,860 28,134	9,329	425
South Gippsland	4,125	1,030	1 6	987,960	49,398	4,132 6,101	138 525
Springfield	700	188	1 3	269,400	13.470	1,277	94
Stawell Strathfieldsaye	3,698	1,230	1 3	1,455,600	72,780 22,902	5,569	312
Swan Hill	3,798 6,800	1,093 2,600	1 3 1 1	458,040 2,1 86,920	22 902 109,346	2,105 7,056	139 275
Talbot	2,145	665	1 0	477.520	23,876	1,334	135
Tambo	3,100	1,014	1 9	477,520 673,480	33,674	4,460	447
Templestowe	6,500	1,600	1 0	1010.000	مونده	1,249	•:
Traralgon	3,300	822	1 0 1 6	1,910,060 982 920	95,503 49,146	8,810 6,215	900 446
Tullaroop	4.520	1,194	1 0	982,920 495,825 1,768,360	33.055	2,191	208
Tungamah	5,568	1.562	1 0	1,768,360	88,418 21,770	5,751	450
Upper Yarra Violet Town	3,500 3,000	1,064 667	1 6 1 0	435,400 765,600	21,770 38,280	3,962	225
Walhalla	2.000	486	2 0	51,200	6,400	2,815 1,510	225 285
Walpeup	3,075 2,700	1,455	1 0	1,390,580	69,529	1,379	
Wannon Waranga	2,700 4,698	752 1.807	1 0	1,975,960	98,798 82,793	6,801	431
Warragul	4,000	1,165	1 0	1,655,860 1,173,180	58,793	5,917	375 900
Warrnambool	8,700	2,012	1 0	3,889,900	58,659 194,495	8,391 15,331	690
Werribee	4,800	3,900	1 6	1,565,460	78.273	8,213	300
Whittlesea Wimmera	3,620 4,250	1,000 974	1 3 1 0	966,840	48,342	2,383	230
Winchelsea	4,325	1,366	1 3	1,636,240 1,469,000	81,812 73,450	4,814 6,374	366 425
Wodonga	2,100	576	1 3	1,469,000 497,540 1,333,740	24,877	2,238 9,067	144
Wychoproof	4,555	1,228	1 9	1,333,740	66,687	9,067	1,000
Wycheproof Yackandandah	4,300 4,000	1,111 758	1 0 1 8	1,306,000 757,620	65,300 37,881	4.566	332
Yarrawonga	3,310	802	1 0	757,020	37,853	3,659 4,861	466 285
Yea	2,520	721	1 3	877,340	43,867	4,004	400
Total	617,587	184,374			8,606,509	827,466	48,448

Ratings in The following is the number of cities, towns, and boroughs, municipalities, and the number of shires in which rates were struck in each of the last five years at the amounts set down in the first column:—

RATINGS IN MUNICIPALITIES, 1911-12 TO 1915-16.

	Numb	er of Citie	s, Towns,	and Bore	aghs.		Num	er of S	hires.	
Amount levied in the £1.	1911-12	1912-13.	1013-14.	1914–15.	1915–16.	1911-12.	1912-13.	1913–14.	1914–15.	1915-16.
8. d. 9 9 1 0 1 1 1 2	• •	6 1	6 1	ê i	:: 1 2	1 72	68	60 	67	58 1
1 3 1 4 1 6 1 7 1 8 1 9	13 	ii 2 2 6	1 11 2 3	1 10 2 3	2 • 4 • 2 • 4	38 3 20 5	38 2 26 7	39 31 8	39 2 25 7	38 2 26 1
1 10 1 11 2 0 2 1 2 2 2 3 2 4 2 6	2 15 1	19 2	22 2 2	22 1 1 10	19 2 1 1	 5	5	5	6 1	ż i
2 4 2 6 Total	1 2 61	8 1 3	8 2 3 61	10 2 2 2 61	5'2	i 146	1 147	'i 147	147	141

These figures give an average rating of 1s. 10d. in the £1 in cities, towns, and boroughs, and of 1s. 3d. in shires. The rating in the urban districts is thus shown to be 7d. in the £1 more than in the rural districts. It will be observed that no municipality during the last five years imposed the minimum rate allowed by law, viz., 6d., but that several reached the maximum of 2s. 6d. in the £1.

Preportion of properties at the different rateable values at three dates. It will be different values, seen that there was very little alteration in the eight years 1991-2, 1905-4 intervening between the first and last dates:—

PROPORTION OF PROPERTIES AT DIFFERENT RATEABLE - VALUES, 1901-2, 1905-6, AND 1909-10.

	Number of Properties in every 100 Rated.										
Rateable Values.	In Cities, Towns, and Boroughs.]	In Shires		In Victoria.				
	1901-2.	1905-6.	1909-10.	1901-2.	1905-6.	1900-10.	1901-2.	1905-6.	1909-10.		
Under £25 £25 to £50 £50 " £75 £75 " £100 £100 " £200 £200 " £300 £300 " £400 £400 " £500	72·6 18·3 4·2 1·7 2·0 ·6 ·2 1·3	72·9 18·0 4·2 1·8 2·0 ·5 ·2	70·1 20·3 4·9 1·5 2·0 ·5 ·2 ·1	63·1 23·4 5·6 3·5 3·1 ·6 ·2 ·1	64.6 20.6 6.2 3.5 3.6 7 .3	63.9 18.8 7.3 .3.5 4.6 1.0 .3 .2	67·8 20·9 4·9 2·6 2·5 6 ·2 ·1	68 8 19 3 5 2 2 6 2 8 6 2	67.0 19.5 6.1 2.5 3.3 8		

Municipal revenue and expenditure. The ordinary revenue and expenditure for each of the last three financial years was as follows:—

REVENUE AND EXPENDITURE OF MUNICIPALITIES, 1913 TO 1915.

Sources of Revenue.	1913.	1914.	1915.
Taxation —	£	£	£
Rates	1,199.874	1,251,649	1,277,063
Licences	103,528	108,106	104.634
Dog Fees	21,483	21,807	20.158
Government Endowment and Grants	160,949	144,374	140 545
Contributions for Streets, Footpaths, &c	59,172	63,260	52,472
Market and Weighbridge Dues	71,937	70,620	63 646
Sanitary Charges	80,194	83,982	85.971
Rents	78,016	76,803	72.133
Other Sources	324,496	354,427	388.850
Total	. 2,099,649	2,175,028	2,205,472
Heads of Expenditure.			
Salaries, &c	. 187,180	192,066	199.872
Sanitary Work, Street Cleansing, &c	203,757	206,271	225,919
Lighting	87,395	89,926	93.381
Contributions to Fire Brigades	97 101	28,361	30 277
Public Works— Construction	339,158	315.480	274.593
Maintenance	753,083	814.459	811.608
TO CONTRACT OF THE CONTRACT OF	EC 600	70,465	62.012
	-00	80.576	92.738
	994 470	239,737	252 912
Redemption of Loans			
Interest on Loans		10 006	
Interest on Leans	. 16,429	18,026	
Interest on Loans		18,026 151,613	19.406 174.945

As compared with 1914, the revenue of 1915 increased by £30,444, as follows:—Rates increased by £25,414, sanitary charges by £1,989, and "other sources" by £34,423. The revenue from contributions for streets, footpaths, &c., decreased by £10,788; market and weighbridge dues by £6,974; Government endowment and grants by £3,829; licences by £3,472; rents by £4,670; and dog fees by £1,649. The expenditure was in excess of the amount for the previous year by £30,683. The following items showed increases:—Salaries, £7,806; sanitary work and street cleansing, £19,648; lighting, £3,455; contributions to Fire Brigades, £1,916; redemption of loans, £12,162; interest on loans, £13,175; charities, £1,380; and other expenditure, £23,332. There were decreases under the headings of public works construction, £40,887; public works maintenance, £2,851; and formation of private streets, £8,453.

Fifty-eight per cent. of municipal revenue in 1915 was derived from rates, 5 per cent. from licences of all kinds, 3 per cent. from market and weighbridge dues, 1 per cent. from dog fees, 6 per cent. from Government endowments and grants, 2 per cent. from contributions for streets, footpaths, &c., 4 per cent from sanitary charges, 3 per cent. from rents, and 18 per cent. from all "other sources."

Salaries. In 1915 the salaries of the municipal officers amounted to £199,872, or 9 per cent. of the entire revenue.

A sum of £19,406, or less than 1 per cent. of the revenue, was devoted to the local charities; the greater part of this disbursement was in aid of hospitals, benevolent asylums and associations, and orphan asylums.

The assets of the municipalities are shown under three heads—(1) Municipal Fund, (2) Loan Fund, (3) Property; and the liabilities under two heads—(1) Municipal Fund, (2) Loan Fund.

MUNICIPAL ASSETS AND LIABILITIES, 1913 TO 1915.

Assets.		1918.	1914.	1915.
Municipal Fund—		£	£	£
Uncollected Rates Other Assets	• • •	108,686	120,200	147,886
Loan Funds—	• • •	582,451	652,530	760,685
	. : 1			
Sinking Funds— Amount at Credit		924,952	878,322	020.057
Arrears Due	•••	924,902 438	1,327	839,951
Unexpended Balances	•••	167,952	351,923	1,326 378,278
Property—	***	107,902	301,923	310,218
Halls, Buildings, Markets, &c.	1	3,534,691	3,799,038	3.863.556
Waterworks	•••	184.842	180.485	175,267
Gasworks	•••	96,963	103,435	99.107
Udbworks	•••	30,303	100,400	99,101
Total Assets		5,600,975	6.087.260	6,266,056
Liabilities.		1913.	1914.	1915.
		1010.	1011.	
Municipal Fund—		£	£	£
Due on Current Contracts		74,770	74,451	71,729
Arrears due to Sinking Funds		438	1,327	1,326
Overdue Interest		18,005	19,771	13,776
Bank Overdrafts		201,142	206,694	213,330
Other Liabilities		364,287	356,884	410,576
Loan Funds—				, p
Loans Outstanding		5,259,138	5,617,056	5,739,084
Due on Loan Contracts	•••	128,051	69,181	237,765
Total Liabilities		6,045,831	6,345,364	6,687,586

Municipal assets and liabilities compared. The total assets of municipalities in 1915 amounted to £0,266,056, and the total liabilities to £6,687,586. The aggregate of the current liabilities (Municipal Fund) was £710,737, against which there were assets amounting to

£908,571. The gross liability on account of loan expenditure for works completed and in progress was £5,976,849, which, after deducting sinking funds and unexpended balances, was reduced to £4,757,294. If credit were taken for the value of municipal properties in markets, halls, buildings, gasworks, electric light works, waterworks, &c. (£4,137,930), the net burden on account of loan moneys would be £619,364.

The valuation of municipal properties is probably an underestimate, as the particulars furnished under this heading were not in every case complete.

An annual endowment to municipalities of £310,000 municipalities. was authorized by the Local Government Act 1874, and it ceased to be payable in 1879. A subsidy, however, in lieu of such endowment, amounting to £310,000, was voted by Parliament annually, and this vote was gradually increased until £450,000 was reached in 1889-90 and 1890-91. Under the Local Government Act 1891, £450,000 was provided as an annual endowment for the municipalities. This amount was reduced to £405,000 per annum from 1st January, 1893; to £310,000 from 1st July, 1893; to £100,000 from 1st July, 1894; and to £50,000 from 1st July, 1902. Under Act No. 2025 it was increased to £75,000 for the year 1906-7, and from the 1st July, 1907, it was increased under Act No. 2129 to £100,000. Payments were made on the basis of this amount to 30th June, 1915, but for the financial year 1915-16 it was reduced to £50,000 under the authority of Act No. 2805, assented to on 23rd December, 1915. The endowment is payable in equal moieties in March and September of each year, and no city or town is entitled to receive any part of it. The distribution amongst the boroughs. and shires is based on the amount of general and extra rates received in the twelve months ended on the last day of September next preceding the financial year 1907-8, according to the following scale :-

To every	borough or first-class shire .	. 3s	. in	the £1
,,	second-class shire	. 5s	•	,,
7.5	third-class shire	. 6s		99
,,,	fourth-class shire	. 8s		,,
,,	fifth-class shire	. 10s		,,
	sixth-class shire	. 12s		,,,

RATING ON UNIMPROVED VALUES BY MUNICIPALITIES.

An Act was passed by the State Parliament on 3rd February, 1914, to provide for optional rating by municipalities on the basis of the unimproved values of rateable property. This measure does not come into operation until proclaimed by the Governor in Council, which proclamation may be made when the values of land made by assessors in the various parts of the State under the Land Tax Act 1910 are available for adoption.

Any municipality may adopt the method of rating set forth in the Act, but two months before doing so must publish in the Government Gazette and twice in some newspaper circulating in the district a notice of its intention to take such course. If one-tenth of the ratepayers in writing demand a poll the proposal must be submitted by the council to the ratepayers, and it shall not be deemed to be carried unless affirmed by a majority of the valid votes recorded, and unless the number of valid votes recorded forms at least one-third of the number of persons on the roll. Where a council of a municipality has not published a notice that it intends to adopt the Act one-tenth of the ratepayers may demand a poll. If a proposal is adopted or rescinded it cannot be again submitted to the ratepayers for three years. Special properties such as railways, tramways, waterworks, hydraulic works. electric light and power works, gas works, and any undertaking extending continuously beyond the boundaries of any municipal district which is subject to more than one separate valuation, although there is no actual separation of the different parts of the property, are not rateable on unimproved values.

WORKERS' DWELLINGS.

Werkers' dwellings was passed by the State Parliament in February, 1914.

The houses are to be leased to persons who are not owners of dwelling houses in Victoria or elsewhere and who are not in receipt of incomes of more than £200 a year. Sub-letting by tenants is not permitted. In fixing rents of dwelling houses account is to be taken of interest, depreciation, rates, repairs, and insurance. Before constructing new houses plans showing the classes of houses to be built are to be submitted for the approval of the Governor in Council. The amount that may be borrowed for the purposes of the Act by any one municipality s not to exceed £50,000. Power is given to increase the general rate

to recoup advances from the municipal fund, but so far as practicable all advances are to be repaid out of the profits accruing from transactions under the Act. Once in every year a balance-sheet has to be prepared showing receipts and expenditure relating to all operations undertaken during the previous year; also assets and liabilities.

COUNTRY ROADS BOARD.

With the object of improving the main roads of the State country Reads an Act was passed on 23rd December, 1912 (Consolidated Act No. 2635), which empowers the Governor in Council to appoint a board to consist of three members. The chairman is to be paid an annual salary not exceeding £800, and each of the other members a salary not exceeding £600.

The duties of the board are to ascertain by survey and investigation what roads are main roads; the nature and extent of the resources of Victoria in metals, minerals, and materials suitable for the purposes of road-making and maintenance, and the most effective and economical methods of dealing with the same, and of supplying and utilizing the material in any part of Victoria; the most effective methods of road construction and maintenance; what deviations (if any) in existing roads or what new roads should be made so as to facilitate communication and improve the conditions of traffic; and to record, publish, and make available for general information the results of all such surveys and investigations. The duty of furnishing information that may be required is imposed on the municipal authorities.

The construction of permanent works and the maintenance of main roads are likewise to be carried out by the municipalities to the satisfaction of the board, but power is reserved to the Governor in Council to direct that permanent works and maintenance shall be carried out by the board.

Finance. For the purpose of making permanent works, power is given to the Governor in Council to issue stock or debentures to the amount of £400,000 a year for five years, and the principal and interest are a charge upon the Consolidated Revenue of the State. The money so raised is to be placed to the credit of an account to be called "the Country Roads Board Loan Account," which will be debited with all payments made by the Treasurer towards the cost of permanent works. A sinking fund of 1 per cent. per annum on half the amount borrowed is authorized to be paid out of the Consolidated Revenue until half the amount borrowed is redeemed. The total cost of the works, in the first instance, is to be paid by the Treasury, but subsequently half the amount expended

is to be refunded by the municipalities affected. In the case of expenditure on permanent works, an annual payment to the Treasurer of 6 per cent. on the amount due by each municipality is provided for, and the cost of maintenance, allocated to each municipality, must be paid out of the municipal fund before the 1st July in each year. A special rate not to exceed 6d. in the £1 on the net annual value of rateable property, to meet the cost of permanent works and maintenance, may be levied in any ward or riding of a municipality as the council may direct. In the event of default of payment by a municipality the board may levy a rate to meet the amount owing. fees and fines paid under the Motor Car Act, all moneys standing to the credit of the Municipal Fees and Fines Trust Fund, all fees paid on the registration or renewal of the registration of traction engines, and all fees received by the Crown after the 30th June, 1912, under the Unused Roads and Water Frontages Act 1903 (incorporated with the Local Government Act 1915), are to be credited to the Country Roads Board Fund.

Since the appointment of the Board in March, 1913, the members have inspected the principal highways throughout the State. Every Shire Council and Borough Council, with which the Board is likely to have dealings relating to the construction or maintenance of roads declared main roads under the Act, has been interviewed and the provisions of the Act have been explained to it.

During the year 1914-15, constructional work to the value of £342,681, and maintenance work involving an expenditure of £49,887, were undertaken.

A system for the continuous maintenance of all main roads is also gradually being evolved, by which it is hoped that those that are now being constructed or reconstructed will be kept in good condition, while those that are in a fair state of efficiency will be kept up to that standard.

As soon as practicable after the termination of each year the board must present a report to the Minister setting forth its proceedings, the permanent works constructed, the mileage of the roads maintained, and an account of all moneys received and expended under the provisions of the Act.

The rates of fees on registration or renewal of registration of motor cars, motor cycles, and traction engines have been altered. The owners of motor cycles must pay an annual registration fee of 5s.; of traction engines, £3 3s.; and of motor cars, £1 1s. to £6 6s., according to the horse-power of the vehicles.

Ordinary receipts and expenditure.

The following is a statement of receipts and expenditure during 1914-15 of the fund established under the Country Roads Act:—

COUNTRY ROADS BOARD FUND.

STATEMENT OF REVENUE AND EXPENDITURE FOR THE YEAR ENDED 30TH JUNE, 1915.

	Revenue.			Expenditure.
	£ s. d.	£	s. d	£ s. d. £ s. d
Balance 1st July, 19 Motor Car Act No. 2702—	14 🗕 🗼	77,352	11 4	Maintenance of Main Roads
Registration		311		Less Moiety payable by Municipalities 24,943 18 8
Fees Licence Fees	\$2,434 14 0 2,251 16 0			Contributions to Sinking 24,943 18
Fines	1,779 2 0		\$ 200	Fund 699 11 9 Interest on Loans 2,098 15 3
Less Refunds	33,465 12 0			Plant Working, Oil, Fuel.
and Costs of	9.010 7.0			and Repairs 353 8 7 Plant Purchased 9,228 9 3
Administration	3,313 5 0	33,152	7 (Advertising
Unused Roads and Water Front-		l. [] [.		Printing and Stationery 712 9 7
ages— Licence Fees	93 580 O Q			Salaries 5,983 4 6
Less Refunds and Costs of	20,000 0 0			Office Furniture 71 17 3 Salaries 5,983 4 6 Wages 2,042 1 11 Sundry Expenses 96 4 6 Survey Leaves 96 4 6
Administration	2,481 16 9			Travelling Expenses 674 19 9
Country Roads	7 2 2	21,048	12 11	Plans
Act No. 2635— Registration			*	Insurance of Employees 78 12 0 Storeyard 40 17 4
fees, &c., Trac- tion Engines	578 19 0	an A.		Motor Car Expenses . 481 0 7
Less Refunds	3 8 0	EHE	10 0	Horse and Vehicle Hire 181 3 4 Camp Equipment 33 9 6 Metal Investigation 57 13 3
Contractors' De-				metal investigation 57 13 3
posits forfeited Penalties on Con-	•	79	7 6	Balance 23,714 7 9 89,955 16 1
tracts Sales of Plan and	•	1	0 0	
Material Plant Earnings	3,438 17 ii	. 96	15 6	
Less Plant hired by Board				
		3,385	18 1	요. 조는 물병 나는 하고 그를 한 모든 맛을 수 없다.
Permanent Works— Contributions			× 5	
payable by Municipalities		2,466	12 6	
on Apportion-			4.3	
ments Postponed	••	455	1 7	
		138,614	2 5	138,614 2 5
			-	John Committee of the C

Loan receipts and expenditure. The expenditure out of loan money on the construction of permanent works for the year ended 30th June, 1915, is shown below:—

COUNTRY ROADS BOARD LOAN ACCOUNT.

Receipts.	and a second	m de la	Expenditure.	
To Balance	£ s. d. 2,110 4 2		toria di Tarata di Laraga. Tarata di Tarata	£ s. d.
,, Proceeds of Loans',, Advance from C.R.B. Fund		By Permanent	Works	342,680 19 0
,,a tom one of tund	74,100 10 /	,, Balance		. 7,424 19 9
Total	350,105 18 9		Total	350,105 18 9
			A CONTRACT TO SERVICE	

LIGENSING FUND.

The following is a statement of the receipts and expenditure of the Licensing Fund for the year ended 30th June, 1915:—

LICENSING FUND.—RECEIPTS AND EXPENDITURE, 1914–1915.

RECEIPTS	, as a second		Expendituri	g.
		d.	[[마시아 - 그리다 : 10~~	£ s. d.
Licences	89,068 0	0	Expenses of officers	
Fees	2,679 8	. 0	carrying out the	
Fines	2,246 13	6	Licensing Act	6,629 5 10
Sale of confiscated			Equivalent to munici-	
liquor	49 2	10	palities (see succeed-	
Club certificates and		•	ing table)	77,170 0 0
percentage fees	1,476 5		Cost of taking poll of	
Permits	1,950 0	0	electors	140 4 10
Expenses of holding			Transferred to Police	
extended annual			Superannuation	
sitting of court	7 17	6	Fund under section	00.010.10.0
Compensation			313 of Act No. 2683	23,812 18 0
assessments	10,275 1	1 1		
	107,752 8	8		E107,752 8 8
and the second of the second o				

In addition to the endowment of £100,000 the municipalities received from the Government in 1914-15 a sum of £77,170 out of the Licensing Fund, under Act No. 2683, Section 313, this being the equivalent for (1) fees for licences; (2) fees for the registration of brewers and spirit merchants; and (3) fines, penalties, and forfeitures incurred under *The-Licensing Act* 1915. The particulars of this payment are as follows:—

EQUIVALENT FOR LICENCE FEES, ETC., 1914-15.

					£	8.	d.
Paid to Cit	ies				32,813	0	0
	wns				4.995	0	0
	roughs				10,722	0	0
	ires—						
,,	1st Class				288	0	0
	2nd				11.849	0	0
	3rd				10,161	0	0
	4th			111	805	0	0
	5th ,,	•••		Heri	3,412	0	0
	6th	7.			1,519	0	0
	Total				£76,564	0	0
educt unpaid		of 1914-15	£278 0	0			
dd payments	on account	of 1913-14	884 0	0			- 21
ico paymonas	J. 1000 411				606	0	0
					OFF 150		
	Amount	paid in 191	4-10		£77,170	U	0

MUNICIPAL LOANS.

In connexion with loans raised by municipalities, Section 375 of the Local Government Act 1915 provides that, when any municipality incurs a loan and the debentures are payable in different years, the Council shall obtain from the Auditor-General a certificate, in writing, that the amounts proposed to be provided in each year will be sufficient

to pay all principal moneys and interest as they fall due. The repayments of principal have to be so provided for, that each year of the currency of the loan shall bear its full share towards liquidation.

Councils may borrow for not more than 40 years upon the credit of the municipality for permanent works or undertakings or to liquidate

moneys owing on account of any previous loan.

The amount of money borrowed by any municipality is not to exceed ten times the average income of the municipality for the previous three years from general rates not exceeding 1s. 6d. in the £1. But in addition, loans having a currency of not more than 30 years may be raised upon the security of certain income and not upon the credit of the municipality, by the issue of debentures or by mortgage. These loans are not to exceed five times the average amount of such income.

The total loan indebtedness of the municipalities at the end of their financial year was £5,739,084, due to the Government and the public respectively as follows:—

MUNICIPAL INDEBTEDNESS, 1915.

	Due to the Government.	Due to the Public.
Cities, Towns, and Boroughs Shires	£ 175,647 87,425	£ 4,669,133 806,879
	263,072	5,476,012
Total	5,739	0,084

Municipal lean The succeeding statements show the loan receipts and expenditure:—

MUNICIPAL LOAN RECEIPTS AND EXPENDITURE, 1915.

		Cities, Towns, and Boroughs.	Shires.	Total.
Receipts during the year Balance unexpended from previous year Expenditure during the year Balance unexpended at the end of 1915	•••	£ 378,854 304,882 336,349 347,387	£ 81,374 53,141 103,624 30,891	£ 460,228 358,023 439,973 378,278

Municipal loan responditure of loan moneys during the spenditure of loan moneys during the year 1915 amounted to £439,973, of which £336,349 was spent by cities, towns, and boroughs, and £103,624 by shires.

MUNICIPAL LOAN RECEIPTS AND EXPENDITURE: RETURN FOR FIVE YEARS.

	TI CATA	T 1 4 4 7 1 1	DAIN.	
Year.		Receipts.		Expenditure.
		£		£
1911		101,918		191.598
1912	***	284,234	•••	311,956
1913	elese	276,544		407,477
1914	•••	573,291	• • • • • • • • •	348,661
1915	•••	460,228	•	439,973

The loan receipts for the year amounted to £460,228, of which £101,148 was obtained from the Government. The unexpended balance of loan moneys at the end of the year 1914-15 was £378,278—£347,387 to the credit of cities, towns, and boroughs, and £30,891 to the credit of shires. The following are the particulars:—

LOANS TO MUNICIPALITIES, 1915.

	Loans from-		
	Government.	Public.	of Loan Moneys.
ITIES, Towns, and Boroughs-	£	£	£
Ararat	1.919	2,500	3,245
Ballarat	3,000	_,_,	517
Ballarat East	9,000		762
Bendigo			9,983
Brighton	2 000		1.052
Brunswick	14,000	10,000	16,148
	1	8,000	8,000
0 10 11	2,500	-,	2,303
	9.060		.
Collingwood	3,500		2,565
Coming # cock			66
	1,000		656
	1 000		1.249
,			876
2 2002 O J	: :: · ·		4,398
_ coustag	3,000	13,000	12,703
decions	2 000	15,000	12,,,,,
Clottong Word	750	17,500	18,143
11aw moin	. 100	11,000	9,879
IXew	204	55,000	27,700
Malvern		1,000	365
mary borough	• • • •	150,000	158,570
Meibouine	1000	100,000	1,384
7404400411 WEAR CHILL.	4,000	9,300	790
Tiorencoco	4,048		190
Ownicign	. 1,300	4,500	
1010 1011	•••	9,000	
I OI MARIA	• • • • • • • • • • • • • • • • • • • •	2,000	1,180
Port Melbourne	•	14,000	13,033
Prahran · · · · · · · · · · · · · · · · · ·	 Approximately red 4 	••	22,608
Witocrinorii.		10.000	130
	7,000	16,000	16,204
Dutter military	3,000	•••	9,068
	800	800	443
St. Kilda	† 9,000	2,500	3,347
Tarnagulla	580	••	•••
	1,800	••	•••
Williamstown	1,000	••	20
Wonthaggi		••	•••
Total	72,754	306,100	347,387
Total		300,100	1,50.

LOANS TO MUNICIPALITIES, 1915—continued.

Loans from-				
		Government.	Public.	Unexpende Balance of Loan Moneys.
			ing the Au Table on Jac	
HIRES—		£	£	. €
Ballarat		3,300		2,184
Beechworth				84
Berwick			800	
Borung	•••		• • •	`
Braybrook		750	••	234
Bright		1,000	• •	111
Buln Buln	•••	••	2,000	460
Buninyong	•••	••		
Colac	••,	••	• • • • • • • • • • • • • • • • • • • •	••
Corio	••		300	1,000
Dandenong	••	••	1,730	550
Donald	•••	• •	4,500	806
Eltham	• • •	••	6,400	2,267
Euroa	•••	••	600	
Ferntree Gully	•••		2,400	1,358
Gisborne	•••	••	1,850	101
Healesville		7 000	4.000	50
Heidelberg	•••	5,800	4,000	11,388
Huntly	• • •	•••	5,000	1,024
Karkarooc Keilor	•••	••	5,000	680
Kyneton	•••	650	••	16 328
Leigh	• •	050		320
Lexton	. * *	1,000	• •	445
Lillydale	•••	1,000	••	766
Mansfield		••	200	700
Melton			200	200
Moorabbin		5,500	3,300	1 200
Mulgrave		1,000	0,000	206
Numurkah		1,000		200
Nunawading		5,519	•	
Phillip Island and Woolamai		.,	250	374
Preston		3,000		1,67,3
Rodney			3,000	
Rutherglen			7,763,7,343	11
South Barwon		250		252
Swan Hill			5,000	1,002
Tungamah			2,900	329
Upper Yarra			250	687
Walpeup			••	1,107
Warragul		500	3 · 1 · 1	240
Werribee			7,000	18
Wodonga	• • •	•••	1,000	940
Wycheproof	•••	125 .	••••	
Yarrawonga	••		500	••
. Total		28,394	52,980	30,891

RECEIPTS AND EXPENDITURE OF THE CITIES OF MELBOURNE, BALLARAT, AND BENDIGO.

Particulars of the receipts and expenditure for 1915 of the City of Melbourne and of the principal cities in the country—Ballarat and Bendigo—are given in the following statements:—

Of the total revenue of the City of Melbourne in 1915,

about 32 per cent. was derived from rates, 37 per cent.

from the sale of electric light, 11 per cent. from the rental

about 32 per cent. was derived from rates, 37 per cent.

from the sale of electric light, 11 per cent. from the rental

from market and weighbridge fees, 4 per cent.

from market and weighbridge fees, 4 per cent. from

licences, and 7 per cent. from other sources. For public works

maintenance, such as roads and bridges, markets, abattoirs, &c., about

24 per cent. of the total expenditure was incurred; for interest on loans

and expenses, 21 per cent.; for payments to sinking funds and repayment of loans, 7 per cent.; for electric supply—depreciation and renewals fund, &c.—24 per cent.; for lighting, 5 per cent.; for street

cleansing, 9 per cent.; for salaries, allowances, and commissions, 6 per

cent.; and for miscellaneous expenditure, 4 per cent.

CHTY OF MELBOURNE: REVENUE AND EXPENDITURE, 1915.

Heads of Revenue,	Amount.
Rates	
General	126.377
Lighting	18,032
Liconocs	
Publicans Equivalent for From Licensing Act	11,976
Abattoirs-Slaughtering Dues and Meat Supervision Fees	3,700
Drays, Hackney Carriages, Trams, and Motors	1,822
Other Licences	383
Canal Incomons	000
# [위품][Minan 휴대 회장 :	974
Fees under Dog Act	974
Fees under Dog Act	
Fees under Dog Act	974 3,987
Fees under Dog Act	974 3,987 40,367
Fees under Dog Act City Baths Market and Weighbridge Fees Lighting—Sale of Electric Current and Rent of Meters, &c. Fines and Costs	974 3,987 40,367 169,381
Fees under Dog Act City Baths Market and Weighbridge Fees Lighting—Sale of Electric Current and Rent of Meters, &c. Fines and Costs Rents—	974 3,987 40,367 169,381
Foss under Dog Act City Baths Market and Weighbridge Fees Lighting—Sale of Electric Current and Rent of Meters, &c.	974 3,987 40,367 169,381 1,735

CITY OF MELBOURNE: REVENUE AND EXPENDITURE, 1915—continued.

• Heads of Revenue.	Amount.
	£
Interest on Fixed Deposits, &c.	11,711
Miscellaneous-	
Desiccators	6,112
Public Conveniences, &c.	
Fees under Building Act	965
Sundries	4,289
Total	450 155
Total	456,155
	1
Heads of Expenditure.	Amount
Notation (in all discussions of the control of the	
Salaries (including clerical assistance, expenses of audit, collection o	f £
statistics, making valuation, and commissions paid in lieu o	
salaries, &c.)	24,752
Allowance to Lord Mayor	
Closet Cleansing and Sanitary Works	
Street Cleansing, &c	
Fire Brigades Board—Contribution	
Public Works—Maintenance—	. 7,375
Roads and Bridges	58 495
Markets and Weighbuilders	. 56,425 . 16,666
Public Buildings (including Abattoirs, Baths, &c.)	23,580
Parks and Planting Trees in Streets	1770
Interest on Loan from the Government	0.40
	88,415
,, Loans from the Public	12.250
,, ,, Loans from the Public	
,, ,, Loans from the Public	210
,, ,, Loans from the Public	210 16,853
,, ,, Loans from the Public Repayment of Public Loans ,, ,, Government Loan Sinking Funds—Loans from the Public . Electric Supply—Depreciation and Renewal Funds, &c. Expenses of paying Interest on Loans	210 16,853 108,162
,, ,, Loans from the Public Repayment of Public Loans ,, ,, Government Loan Sinking Funds—Loans from the Public Electric Supply—Depreciation and Renewal Funds, &c. Expenses of paying Interest on Loans Interest on Bank Overdrafts	210 16,853 108,162
,, ,, Loans from the Public Repayment of Public Loans ,, ,, Government Loan Sinking Funds—Loans from the Public Electric Supply—Depreciation and Renewal Funds, &c. Expenses of paying Interest on Loans Interest on Bank Overdrafts	210 16,853 108,162 3,045 438
,, ,, Loans from the Public Repayment of Public Loans ,, ,, Government Loan Sinking Funds—Loans from the Public Electric Supply—Depreciation and Renewal Funds, &c. Expenses of paying Interest on Loans Interest on Bank Overdrafts Contributions to Charitable Institutions ,, ,, Infectious Diseases Hospital	210 16,853 108,162 3,045 438 1,400
,, ,, Loans from the Public Repayment of Public Loans ,, ,, ,, Government Loan Sinking Funds—Loans from the Public Electric Supply—Depreciation and Renewal Funds, &c. Expenses of paying Interest on Loans Interest on Bank Overdrafts Contributions to Charitable Institutions ,, Infectious Diseases Hospital Law Costs	210 16,853 108,162 3,045 438 1,400 2,567 589
", ", Loans from the Public Repayment of Public Loans ", ", Government Loan Sinking Funds—Loans from the Public Electric Supply—Depreciation and Renewal Funds, &c. Expenses of paying Interest on Loans Interest on Bank Overdrafts Contributions to Charitable Institutions ", Infectious Diseases Hospital Law Costs Printing, Advertising, and Stationery	210 16,853 108,162 3,045 438 1,400 2,567
", ", Loans from the Public Repayment of Public Loans ", ", Government Loan Sinking Funds—Loans from the Public Electric Supply—Depreciation and Renewal Funds, &c. Expenses of paying Interest on Loans Interest on Bank Overdrafts Contributions to Charitable Institutions ", ", Infectious Diseases Hospital Law Costs Printing, Advertising, and Stationery Miscellaneous—	210 16,853 108,162 3,045 438 1,400 2,567 589 2,216
Repayment of Public Loans Repayment of Public Loans ,, ,, Government Loan Sinking Funds—Loans from the Public Electric Supply—Depreciation and Renewal Funds, &c. Expenses of paying Interest on Loans Interest on Bank Overdrafts Contributions to Charitable Institutions ,, ,, Infectious Diseases Hospital Law Costs Printing, Advertising, and Stationery Miscellaneous— Rat Destruction	210 16,853 108,165 3,045 438 1,400 2,567 589 2,216
,, ,, Loans from the Public Repayment of Public Loans ,, ,, ,, Government Loan Sinking Funds—Loans from the Public Electric Supply—Depreciation and Renewal Funds, &c. Expenses of paying Interest on Loans Interest on Bank Overdrafts Contributions to Charitable Institutions ,, ,, Infectious Diseases Hospital Law Costs Printing, Advertising, and Stationery Miscellaneous— Rat Destruction Gas Conferences	210 16,853 108,162 3,045 438 1,400 2,567 589 2,216
,, ,, Loans from the Public Repayment of Public Loans ,, ,, ,, Government Loan Sinking Funds—Loans from the Public Electric Supply—Depreciation and Renewal Funds, &c. Expenses of paying Interest on Loans Interest on Bank Overdrafts Contributions to Charitable Institutions ,, ,, Infectious Diseases Hospital Law Costs Printing, Advertising, and Stationery Miscellaneous— Rat Destruction Gas Conferences Fees—Dog Act	210 16,853 108,162 3,045 438 1,400 2,567 589 2,216 670 163 517
", ", Loans from the Public Repayment of Public Loans ", ", Government Loan Sinking Funds—Loans from the Public . Electric Supply—Depreciation and Renewal Funds, &c. Expenses of paying Interest on Loans Interest on Bank Overdrafts Contributions to Charitable Institutions ", Infectious Diseases Hospital Law Costs Printing, Advertising, and Stationery Miscellaneous— Rat Destruction Gas Conferences Frees—Dog Act Insurance and Guarantee Premiums	210 16,853 108,162 3,045 438 1,400 2,567 589 2,216 670 163 517 2,499
,, ,, Loans from the Public Repayment of Public Loans ,, ,, , Government Loan Sinking Funds—Loans from the Public Electric Supply—Depreciation and Renewal Funds, &c. Expenses of paying Interest on Loans Interest on Bank Overdrafts Contributions to Charitable Institutions , ,, Infectious Diseases Hospital Law Costs Printing, Advertising, and Stationery Miscellaneous— Rat Destruction Gas Conferences Fees—Dog Act Insurance and Guarantee Premiums Elections	210 16,853 108,162 3,045 438 1,400 2,567 589 2,216 670 163 517 2,499
", ", Loans from the Public Repayment of Public Loans ", ", Government Loan Sinking Funds—Loans from the Public Electric Supply—Depreciation and Renewal Funds, &c. Expenses of paying Interest on Loans Interest on Bank Overdrafts Contributions to Charitable Institutions ", "Infectious Diseases Hospital Law Costs Printing, Advertising, and Stationery Miscellaneous— Rat Destruction Gas Conferences Fees—Dog Act Insurance and Guarantee Premiums	210 16,853 108,162 3,045 438 1,400 2,567 589 2,216 670 163 517 2,499
Repayment of Public Loans Repayment of Public Loans ,,,, Government Loan Sinking Funds—Loans from the Public Electric Supply—Depreciation and Renewal Funds, &c. Expenses of paying Interest on Loans Interest on Bank Overdrafts Contributions to Charitable Institutions ,, Infectious Diseases Hospital Law Costs Printing, Advertising, and Stationery Miscellaneous— Rat Destruction Gas Conferences Fees—Dog Act Insurance and Guarantee Premiums Elections Sundrices	210 16,853 108,162 3,045 438 1,400 2,567 589 2,216 670 163 517 2,499

Of the total revenue received by the City of Ballarat in 1915, about 51 per cent. was obtained from rates, 8 per revenue and expenditure, cent. from licences, 12 per cent. from sanitary rates, 8 per cent. from market and weighbridge dues, 4 per cent. from rents, and 17 per cent. from all other sources. The expenditure was incurred in connexion with the following services:—43 per cent. for public works, 10 per cent. for interest, sinking funds, and repayment of loans, 14 per cent. for sanitary work, 7 per cent. for lighting, 6 per cent. for salaries and allowances, 7 per cent. for street cleaning, &c., and 13 per cent. for all other items.

CITY OF BALLARAT: REVENUE AND EXPENDITURE FOR THE YEAR ENDED 30TH SEPTEMBER, 1915.

Revenue.	Amount.	Expenditure.	Amount.
	£		£
Special Grants-From Go-		Salaries	1,569
vernment	713	Allowance to Mayor	400
General Rates	19,178	Sanitary Expenses	4,767
Licences—From Licensing	20,2,0	Street Cleaning, &c	2,500
Fund	2,684	Lighting	2,471
Other	171	Fire Brigades Board—	
Market and Weighbridge		Contribution	527
Dues	2,841	(Construc-	
Contributions for Forma-		tion	1,660
tion of Private Streets,		Public Works Mainten-	
Roads, Lanes, &c	273	ance	12,926
Dog Fees	218	Repayments of Loans—	
Down J Poss	131	To the Public	427
Closet Cleansing and		Payment to Sinking Funds—	14,
Sanitary Rates and Fees	4,645	Loans from the Public	274
Rents	1,638	Interest—Government Loan	126
Interest	110	Loans from the	120
Botanic Gardens	271	Public	2,376
Other Common	$4,\overline{721}$	Bank Overdraft	229
Other Sources	-,,	Contributions to Charitable	240
		Institutions	357
		Printing, Advertising, and	
		Stationery	347
하는 그는 그리고 하는 이 바라 가져왔다.		Other Expenditure	2,780
	<u> 44. 24</u>	Omer expendionre	2,100
Total	£37,594	Total	£33,736

In the City of Bendigo in 1915, the following were the proportions of total revenue obtained under the different of city of Bendigo.

Headings:—General rates, 51 per cent.; licences, 11 per cent.; sanitary rates and fees, 15 per cent.; market and weighbridge dues, 6 per cent.; rents, 7 per cent.; and other sources, 10 per cent. The proportions of the total expenditure on various services were:—Public works, construction and maintenance, 41 per cent.; sanitary expenses, 16 per cent.; interest on loans and payments to sinking funds, 7 per cent.; salaries and

allowances, 6 per cent.; lighting, 8 per cent.; street cleansing, 10 per cent.; and miscellaneous expenditure, 12 per cent.

CITY OF BENDIGO: REVENUE AND EXPENDITURE FOR THE YEAR ENDED 30th SEPTEMBER, 1915.

Revenue.	Amount.	Expenditure.	Amount.
Special Grants—From Gove	ern-	Salaries	1,946
ment	1,574	Allowance to Mayor	400
General Rates	21,114	Sanitary Expenses	6,570
Licences—From Licens		Street Cleansing	4,006
Fund	3,132	Lighting	3,382
Other	1,577	Fire Brigades Board—Contri-	-
Market and Weighbridge I		bution	568
Dog Fees	169	Construc-	
Closet Cleansing and S		tion	2,214
tary Rates and Fees	6.419	Public Works Mainten-	
Rents	$\begin{array}{ccc} \dots & 0,110 \\ 2,742 \end{array}$	ance	14,702
Interest	674	Interest on Loans from the	
Sports Grounds	249	Public	2,686
Other Sources	1,665	Interest on Bank Overdraft	318
Other Bources	1,000	Contributions to Charitable	
		Institutions	277
		Printing, Advertising, and	
		Stationery	386
		Other Expenditure	3,663
			41 110
Total	41,750	Total	41,118
			1.50.00

MUNICIPAL OFFICERS' FIDELITY GUARANTEE FUND.

An Act was passed in 1907 (No. 2080) incorporating the Municipal Association of Victoria, and authorizing it to Municipal Officers institute a "Municipal Officers' Fidelity Guarantee Fund," to which any municipality, any authority constituted under any Water Act or any Weights and Measures Union may contribute such sum as may be fixed by the association for a guarantee against loss by the dishonesty of its officers. The Act provided, however, that the fund could not be established until three-fifths of the municipalities in Victoria had agreed in writing to contribute and that the amount to be contributed for a guarantee must not be less than that payable in 1907 for a like guarantee to any incorporated company or society in Victoria. At any time after the fund has reached £3,500 the rates of contribution may be altered, so that it will be maintained at that sum, and, in the event of the amount at credit being at any time insufficient to pay all the liabilities and expenses, the difference must be made up by payments from all the contributors, each paying pro rata to its contributions. If the association determines to discontinue business, the funds are to be divided proportionately to the sums contributed during the preceding five years. Payment of contributions is to be made within one month after a written notification has been sent by the secretary. Full and accurate

accounts are to be kept of all moneys received and expended, and of the details of the transactions. A balance-sheet, made up to the 30th September of each year, must be prepared, exhibiting a true statement of receipts and expenditure and the balance to the credit of the fund.

More than the required number of municipalities agreed to cooperate, and the fund was inaugurated on 1st January, 1908. Guarantee policies have been applied for and granted to the whole of the municipalities in the State. The operation of the fund was, at first, restricted by the association to guarantees in respect of municipal officers, but the rules have been altered, and since 1st October, 1914, they have permitted of guarantees being obtained by any waterworks authority or Weights and Measures Union; such authority or union is required, however, to make a preliminary payment into capital account. The premium revenue for the year ended 30th September, 1914, in respect of guarantees amounting to £198,320, was £1,115, but under the reduced scale of premiums which came into force on 1st October, 1914, municipalities obtain like guarantees for about £635 per annum, and similarly reduced rates will be charged in the case of waterworks authorities and Weights and Measures Unions. The amount to the credit of the fund on 30th September, 1915 (including amount invested in purchase of debentures and accrued interest, £6,061), was £6,262. The claims paid from the inception of the fund to 30th September, 1915, amounted to £1,227 12s. 6d.

MELBOURNE HARBOR TRUST.

The Melbourne Harbor Trust is a corporate body, established in 1876 to regulate, manage, and improve the -receipts and Port of Melbourne and portions of the Yarra and Saltwater Rivers adjacent, for which purpose certain lands and properties are vested in Commissioners. On 31st December, 1912, an Act was passed by the State Parliament which altered the constitution of the Trust. Instead of seventeen Commissioners, of whom six were appointed by the municipalities concerned, three by the owners of ships registered at Melbourne, three by merchants and traders paying wharfage rates, and five by the Governor-in-Council, there are substituted five Commissioners to be appointed by the Governor-in-Council. Other than the chairman, one member is to be an owner of ships registered at some British port and trading at Melbourne, one a person engaged in the business of an exporter by sea of Victorian produce, one an importer by sea of goods into Victoria, and one identified with primary production in Victoria. The chairman's salary is not to exceed £1,500; and the attendance fees of the other Commissioners are fixed at £2 2s. per meeting, the remuneration not to exceed £250 in any year. The borrowing power of the Trust is increased from £2,000,000 to £3,000,000. The payment to the Consolidated Revenue is not to be greater than £60,000 per annum for five years from 1st January, 1913. The following are particulars of the ordinary receipts

and ordinary and capital expenditure during each of the last five years:-

MELBOURNE HARBOR TRUST.—RECEIPTS AND EXPENDITURE: 1911 TO 1915.

			and the second	
		REVENUE.		
7. 3				
£	£	£	£	£
312,616	314,447			272,279
17,336	19,001	20,424		23,834
2,039	2,375	665		1,293
2,210	3,792	4,299	11,194	13,092
334,201	339,615	337,539	353,854	310,498
a= 410	60.044	60.060	60,000	60,000
65,413	08,344	00,900		
268,788	271,271	276,579	293,854	250,498
	Revenu	je Expend	ITURE.	
20,841	27,453	28,622	34,163	36,067
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
				5,936
13,267	32,559	32,014		20,298
2,266	1,159	2,107	1,698	1,754
12,489	17,350	20,583	13,370	25,469
		9,207	10,835	7,999
			69,981	72,858
00,000				
35,000	17,500	29,188	30,058	30,41
162,659	176,951	181,215	190,152	200,796
106.129	94,320	95.364	103,702	49,702
100,120	0 - 7,0 - 1			
	CAPITA	L EXPEND	ITURE.	
1.44	1 119	46.007	5.534	2,060
31 531		49.620		93,615
				120,627
				10,921
304	0,004	10,001	7,520	
707	9 725	2.713	1.376	4.27
				3,112
5 914		7.7		4,10
				25,451
9,090	14,040	41,012		
78,005	207,503	287,164	266,907	264,168
	312,616 17,336 2,039 2,210 334,201 65,413 268,788 20,841 13,267 2,266 12,489 9,430 69,366 35,000 162,659 106,129 31,531 14,202 454 787 16,721 5,214 9,096	312,616 314,447 17,336 19,001 2,039 2,375 2,210 339,615 65,413 68,344 268,788 271,271 REVENU 20,841 27,453 13,267 32,559 2,266 1,159 2,266 1,159 12,489 17,350 9,430 11,666 69,366 69,264 35,000 17,500 162,659 176,951 106,129 94,320 CAPITA 1,119 31,531 14,202 85,227 454 9,854 787 2,735 16,721 72,078 5,214 102 9,096 14,543	312,616 314,447 312,151 17,336 19,001 20,424 665 2,210 3,792 4,299 334,201 339,615 337,539 65,413 68,344 60,960 65,413 68,344 60,960 268,788 271,271 276,579	312,616

^{*} Exclusive of interest on cost of plant debited to works carried out by day labour.

GEELONG HARBOR TRUST.

An Act to provide for the construction of works in connexion with the harbor at Geelong was passed on 12th December, 1905. This measure made provision for the constitution of the Geelong Harbor Trust and the appointment of three commissioners, the chairman to receive £400

per annum, and each of the other commissioners £200 per annum. The management of the port and shipping is vested in the commissioners. Power is given to the Trust to borrow £500,000 and to issue debentures, which may be made payable in London or Melbourne. The following is a summary of the receipts and expenditure for the last three years, the expenditure from ordinary revenue being distinguished from loan expenditure:—

GEELONG HARBOR TRUST—REVENUE AND EXPENDITURE.

	1913.	1914.	1915.
	£	£	£
REVENUE.	1		
Wharfage and Quayage Rates	15,182	13,495	10,200
Rents, Fees, and Licences	3,423	3,750	3,776
Sparrovale Farm	5,459	7,281	6,710
Corio Freezing Works and Abattoirs	5,592	12,404	9,543
Other Revenue	1,146	1,064	606
그렇게 가입다는 하지 않는데 그리고 나가지 ?	30,802	37,994	30,835
Less Amount paid to Consolidated Revenue	619	••	
Total	30,183	37,994	30,835
REVENUE EXPENDITUBE.			
General Management and Expenses'	5,665	6,610	5,950
Maintenance—Wharfs and Approaches	1,663	2,101	196
,, Harbor	685	831	587
" Floating Plant	161	326	82
other	480	676	992
Interest on Loans and Sinking Fund	17.091	19,167	21,870
Sparrovale Farm	4.927	6.221	5,786
Corio Freezing Works and Abattoirs	3,789	1.934	1,576
Corio Quay Power-house	0,.00	2,548	1,805
Miscellaneous		894	211
Total	34,461	41,308	39,055
아름일 나에게 되는 사람들이 가게 되었다.			
CAPITAL EXPENDITURE.			
Land and Property	13,919	19,611	2,224
Deepening Waterworks	10,619	11,970	15,882
Whaffs and Approaches Construction	11,026	7,303	6,617
Other Harbor Improvements	6,440	9,480	28,983
Floating and General Plant	1,702	2,137	1,358
Stock Account	567	455	
Miscellaneous	2,219	696	2,030
Total	46,492	51,652	57,094

THE MELBOURNE AND METROPOLITAN BOARD OF WORKS.

The Board was established by Act of Parliament No. Creation and 1197, which came into force on 20th December, 1890. constitution of Board. and it entered upon its duties on 18th March, 1891.

It consists of 40 members, of whom one is the Chairman, who is elected every four years by the other members, the retiring Chairman being eligible for re-election. The other members must be also members of the respective councils which they represent, and are elected as follows:-Nine by the Melbourne City Council, four by the South Melbourne Council, three by the Prahran Council, two each by the Fitzroy, Richmond, St. Kilda, and Collingwood Councils, and one each by the other fifteen suburban municipal councils returning a representative, viz., Footscray, Hawthorn, Brunswick, Essendon, Malvern, Brighton, Northcote, Port Melbourne, Williamstown, Caulfield, Camberwell, Kew, Coburg, Heidelberg, and Preston.

Thirteen of the members retire annually in the month of February, but are eligible for re-election if they remain members of their respective

councils.

The functions of the Board are to control and manage the Metropolitan water supply system, including watersheds, Functions of reservoirs, weirs, aqueducts, pipes, &c.; to provide the metropolis with an efficient system of sewerage and drainage; and to prevent the pollution of the River Yarra and other public streams and water-courses within the metropolis.

The sewerage area over which the Board exercises Area under Board's control consists of fifteen cities, five towns, two shires, control, and population. and parts of three other municipalities, or twenty-five municipalities in all, embracing a total area of 109,009

The Board also exercises control (by Gazette notices) for water supply purposes of an additional 2,949 acres in four municipalities. The Board further supplies water to the Metropolitan Farm at Werribee, and the outfall sewer area. Various other shires also arrange for bulk supplies of water. The total estimated population supplied with water on 31st December, 1915, was 679,000.

The Board is authorized to borrow £9,750,000, exclusive Board \$ borrowing of loans amounting to £2,389,934 contracted by the ilability on

Government and taken over by the Board.

The liability for Government loans on 30th June, 1915, was £1,559,786, and for loans raised by the Board, £10,425,160, a portion of which has been applied in repayment of Government loans falling due. The Board was at that date empowered to borrow £154,988 before reaching the limit of its borrowing powers.

WATER SUPPLY FINANCE.

By Act of Parliament the rate to be paid in respect of any lands and tenements for the supply of water for domestic Water supply assessments purposes, otherwise than by measure, is limited to an amount not exceeding 8d. in the £1 on the annual valuation of the lands and tenements served. The water rate levied in the year 1914-15 was 7d. in the £1 on the annual value of property served. Assessments of £17 and under are charged a minimum rate of 10s. per annum. There is a charge of 1s. per 1,000 gallons for water supplied by meter, with the assessed rate as a minimum. For shipping at Melbourne wharfs the charge is 3s. per 1,000 gallons, and at special berths at Melbourne wharfs, with fixed meters, it is 1s. 6d. per 1,000 gallons.

Water meters may be hired from the Board at the following annual rentals, payable quarterly in advance:—
For a ½-in. meter, 5s.; ¾-in., 6s.; 1-in., 8s.; 1¼-in., 10s. 6d.; and 1½-in., 14s.

Areas not exceeding 100 square yards (including paths) are supplied with water without meters on payment of a special rate of 10s. per annum each.

Assessed The total annual value of property assessed for water supply purposes and liable to water rates was £6,577,338 in 1914-15.

Water rate receipts. In 1914-15 the water rate receipts were as follows:—

Water rate (including arrears)	167,647 5 4
Meters ,, ,,	159,410 18 7
Special rates ", ",	4,248 9 7
공장 연락하는 마리들이는 지수를 하다고?	
Total	331,306 13 6

The total revenue amounted to £350,549, as against £332,930 in the previous year. The cost in 1914-15 of maintenance and management was £60,547, and of interest £130,268, the total charges being £190,815, compared with a cost in 1913-14 of £56,873 for maintenance and management, and of £128,292 for interest, or a total charge of £185,165. The net profit in 1914-15 was thus £159,734, being equivalent to 3.3 per cent. of the mean capital cost, as compared with £147,765, or 3.2 per cent. in 1913-14.

Cost of the Melbeurne and The total cost of the water supply system up to 30th Metropolitan June, 1915, was as follows: system.

&c	works, tank pumping station,	£84,885
Yan Yean system	그림으로 하지만 그는 얼마를 하게 되었다.	632,121
Maroondah system		779,090
O'Shanassy system	그 교통하는 교회 경우 생활하였다.	429,277
Service reservoirs		248,142
Large mains	: : 11D. 및 명상으로 104	1.145,253
Reticulation		1,424,967
Total		F4 743 735

SEWERAGE FINANCE.

In 1891 the annual value of rateable property within the area then to be sewered was £6,866,313, of which about Sewerage £1,000,000 related to vacant lands. The collapse of the assessments, land boom was followed by a heavy shrinkage in the value rates, and receipts. of rateable property. A recovery in values has since taken place, and the total of the sewerage assessments for 1915-16 is £7,268,204

inclusive of assessments on vacant lands.

By Act of Parliament the Board is empowered to levy a general sewerage rate not exceeding 1s. 2d. in the £1 in sewered areas. present general sewerage rate is 1s. 1d. in the £1 in the sewered area. The total annual value of property assessed for sewerage purposes and liable to the 1s. 1d. rate was, in 1914-15, £6,041,458.

The receipts from the general sewerage rate in 1914-15 amounted

to £333,288.

The sewerage revenue for 1914-15 was £382,458, as against £338,459 in the previous year. The cost in 1914-15 of management, working expenses, repairs, and renewals, was £72,030, and of interest, £316,788, the total charges being £388,818, compared with a cost in 1913-14 of £67,580 for management, working expenses, repairs, and renewals, and £314,126 for interest, or a total charge of £381,706.

The deficiency in 1914-15 was £6,360, as against £43,247 for the

previous year.

The cost of sewerage works and house connexions up Cost of the Melbourne and Metropolitan to 30th June, 1915, was £7,149,379, divided as follows:system.

Farm purchase and preparation	£542,659
Outfall sewer and rising mains	423,034
Pumping station buildings and engines	243,378
Main and branch sewers	2,084,772
Street reticulation	2,114,391
Reticulation of rights-of-way	956,973
House connexions branches	380,736
Cost of house connexions chargeable to capital	403,436
Cost of sewerage system	£7,149,379
Householders' debts for house connexions	119,223
River improvements	3,681
(Total	£7.272.283

DESCRIPTION OF WATER WORKS.

The metropolis is supplied with water from three independent sources-one known as the Yan Yean system, The Methourne fed by the watershed of the Plenty River and Jack's Creek Metropolitan from the southern slopes of the Great Dividing Range, supplemented by the Wallaby and Silver Creeks, tributaries of the Goulburn, whose waters have been diverted over the range by means of weirs, aqueducts, and tunnels; a second, known as the Maroondah system, whose watershed is in the Healesville district, and which takes in the water of the Maroondah or Watts River, the Graceburn, Donnelly's and Coranderrk Creeks, and other smaller streams; and a third, known as the O'Shanassy and Upper Yarra system, whose watersheds are in the Upper Yarra above Warburton. As regards the last-mentioned system, at present only the O'Shanassy River, a main tributary of the Upper Yarra, has been tapped.

The total catchment area from which water is collected at eatenment present from the three systems is 102,000 acres, the whole of which is vested in the Board, and free from settlement or grazing.

YAN YEAN SYSTEM.

The Yan Yean watershed embraces Silver and Wallaby Creeks, 12,000 acres; Plenty River and Jack's Creek, 12,000 acres; and the catchment areas of Yan Yean Reservoir, 5,000 acres, totalling 29,000 acres. The water is collected into the Toorourrong Reservoir, and taken thence to the Yan Yean Reservoir, where it is stored. This reservoir is an artificial lake situated 22 miles northerly from the city, and 602 feet above sea-level. formed by the construction of an earthen bank 49 chains long, 30 feet high, and 20 feet wide on top, with a slope next the water of three to one and an outside slope of two to one. The reservoir when full covers an area of 1,360 acres, or $2\frac{1}{8}$ square miles, with a maximum depth of 26 feet, and an average depth of 18 feet. The maximum depth of water in the reservoir in 1915 was 20 ft. 9 in. on 7th December, and the minimum depth 12 ft. 5 in. on 9th April. Its total capacity is 6,400,000,000 gallons, of which 5,400,000,000 gallons are available for consumption. In the year ended 31st December, 1915, the total intake of the Yan Yean Reservoir was 4,265,730,000 gallons, and the total output was 1,772,927,000 gallons exclusive of loss by evaporation. The mean evaporation from the surface is about 3 feet during the year.

From this reservoir the water is forwarded to Morang Pipe Head Reservoir through an open aqueduct capable of delivering 33,000,000 gallons a day when full, and thence to Preston Reservoir, or to Mel-

bourne direct, by a series of pipes.

There is also a direct main, called the high-level system, from Yan Yean to Surrey Hills Reservoir, for supplying the high levels of the eastern suburbs of Melbourne in conjunction with the O'Shanassy and Upper Yarra System. It is capable of delivering 9,000,000 gallons a day.

MAROONDAH SYSTEM.

The Maroondah water is taken by means of small weirs from the watershed of 40,000 acres situated above Healesville, and it is thence conveyed to the Preston Service Reservoirs along an aqueduct (about 41½ miles of open channels, tunnels, and syphons), which is capable of delivering 28,000,000 gallons daily.

O'SHANASSY AND UPPER TARRA SYSTEM.

O'Shanassy and Upper Yarra watershed. The watershed of the Ostanasy River comprises 33,000 acres, situated near warburton. The water is diverted by means of a weir and conveyed to Surrey Hills by way of Mitcham in an aqueduct, and in tunnels, syphons,

and pipe line of an aggregate length of 484 miles. The aqueduct is capable of delivering 20,000,000 gallons daily, but it has been completed in the tunnels and some other parts to a capacity of 60,000,000 gallons to provide for further diversions from the Uniter Yarra and its tributaries.

Storage and service recervoirs. There are two storage are service reservoirs (also four other service reservoirs reposed) as under:—

STORAGE RESERVOIRS.

Description.	Capacity.	Reduced Level at By-wash.
Yan Yean	Gallons. • 6,400,000,000* 60,000,000	602 feet above L.W.M.
Total (storage)	6,460,000,000	

Of this quantity 5,400,000,000 gallons are available for consumption.

SERVICE RESERVOIRS.

Description.	Capacity.	Reduced Level at By-wash.			
	v.				
	Gallons.				
Preston No. 1	13,500,000	326 · 50 feet			
" No. 2	24,500,000	326.50			
" No. 3	26,300,000	326 50			
Essendon No. 1	1,000,000	209 · 25			
,, No. 2	4,000,000	209 · 25 ,,			
Caulfield	10,000,000	166.00 ,,			
Kew	3,000,000	281 · 50 ,,			
Surrey Hills No. 1	9,000,000	429 50 ,,			
" No. 2	15,000,000	429.50 ,,			
Morang (Pipe Head)	3,000,000	485.00 ,,			
Heidelberg	1,000,000	325.00 ,,			
Notting Hill	10,000,000	332 50 ,,			
Olinda	11,000,000	671.00 ,,			
Total (service)	131,300,000	••			
North Essendon (proposed provision for 10,000,000 gallons)	•••	290·00 ,, (approx.			
Mitcham (proposed provision for three reservoirs with a capacity		515.00 ,, ,,			
of from 20 to 25 million gallons each)					

Acuteurs, &c.. The following a the mileage return of aqueducts, &c., mains, and reflectation pipes up to the 30th June, 1915:—

Yan Yman System—	Miles	Chs.	Miles	Cha.
Reservoir	23	62		
Aqueduct—Yan Yea Andrews for Morang	6	33½	30	15
MAROONDAM STREET. Main Maroondah Aquedusts Tributary Aqueducts Secure at Presson Researches.	41 6 2	28 8 521		
Botsk			50	81
O'Shanassy Weir to Surrey Falls Reservoir	48	523		
Scour at Surrey Hills Reservoir	0	49 32		
Total		••	49	534
Grand Total, Aqueducts, &c	•	••	129 222	76½ 42*
Large Mains, 54-in to 12-in. diameter (inclusive) Retirementation under 12-in. diameter		•	1,253	661
Grand Total, Aqueducts, &c., Mains, and Reticulat	ion		1,606	252

The average number of people supplied with water during 1915 was 674,000, and the average daily consumption was 54.25 gallons per head. Some districts are supplied outside the Board's sewerage area. The total consumption and average some number of people supplied with water during 1915:—

TOTAL AND DAILY AVERAGE CONSUMPTION OF WATER IN MELBOURNE AND SUBURBS DURING EACH MONTH OF THE YEAR, 1915.

Month.	Total Consumption of Water.	Daily Average Consumption of Water,
	Gallons. 1,339,503,000	Gallons. 43,209,774
January February	1,315,389,000	46.978 179
March	1,411,056,000	45,517,935
April	993,145,000	33,104,833
May	965,233,000	31,136,548
a Jane	894,023,000	29,800,766
July	931,911,000	30,061,645
August	939,494,000	30,306,258
Deptember	977.328,000	32,577,600
October	998,841,000	32,220,677
November	1,192,433,000	39,747,767
(16 a Des ember	1,388,823,000	44,800,742
Total for the year	13,347,179,000	
Daily average for the year		36,567,614

^{*} Exclusive of O'Shanassy Main Pipe line,

The following table shows for each year since the establishment of the Board in 1891 the daily average consumption of water, and the daily average per head:—

DAILY AVERAGE QUANTITY OF WATER CONSUMED IN MELBOURNE AND SUBURBS, 1891 TO 1915.

Year.	Population supplied with Water to 30th June.	Houses sup- plied with Water to 30th June.	Tenements Con- nected with Sewerage System to 30th June.	Daily Average of Annual Consumption of Water to 31st December.	No. of Gallons of Water per . Head Daily.
1891	482,600	99,364		Gallons. 25,747,761	53:35
1892	486,620	106,772	•••	23,476,780	48 24
1893	469,390	107,125	•••	24,290,041	51 75
1894	449,560	107,764	***	27,071,106	60.22
1895	444,340	107,260	•••	26,689,683	60.07
1896	452,210	106,486	•		52.71
1897	458,300	105,710	•••	23,837,695 24,665,607	53.82
1898	466,895	104,861	3,899	28,253,294	60.51
1899	480,390	103,981	13,593	27,068,465	56.37
1900	489,600	104,050	28,300	28,230,690	57 66
1901	494,905	104,548	38,696	29,427,589	59·46
1902	501,580	105,051	47,172	29,080,027	57·98
1903	502,840	106,176	55,929	28,858,633	57 39
1904	505,760	107,701	64,487	29,523,153	58·37
1905	511,520	109,393	71,689	32,400,286	63 34
1906	519,925	111,494	79,597	33,479,900	64 · 39
1907	530, 6 55	114,049	87,853	35,212,222	66 36
1908	543,115	116,781	94,067	31,559,830	58 11
1909	557,350	119,650	99,955		59.29
1910	573,255	123,227	105,993	33,047,340	
1911	588,000	128,036	112,293	33,272,490 36,110,115	58·04 61·41
1912	604,275	133,122	118,350	38,569,566	63.83
1913	628,430	140.351	126,103	41,642,926	66 27
1914	651,000	147,442	131,168		62 64
1915	674,000	150.825	138,108	40,778,844 36,567,614	54 25

DESCRIPTION OF SEWERAGE SYSTEM.

While the Board took over from the State Government the branch which had the management of the Melbourne Water Supply, still the chief object of its creation was to carry out the long-called-for and pressing want of an efficient system of sewerage in the Metropolitan area. The plans and estimates of the cost of the Metropolitan sewerage scheme were originally prepared by the late Mr. James Mansergh, an expert civil engineer from England, and were furnished to the Board on its creation. The scheme recommended by the designer and selected by the Board's Engineer-in-Chief (the late Mr. William Thwaites) was estimated to cost £5,030,000, but was modified by Mr. Thwaites, with the concurrence of the Board, so as to reduce the estimated cost to £3,451,000.

The original Act of Parliament contemplated only the construction of sewers in the streets, but this was altered by an Act passed in 1897, which added the duty of constructing sewers in rights-of-way and the branches from the sewers to the building line of each property, and in consequence has added considerably to the original estimate of cost.

Tenements connected with the sewerage system. The first tenement was connected in Port Melbourne in August, 1897. On 31st December, 1915, 145,012 tenements had been gazetted as within sewerage areas, and applications received re 457 outside gazetted areas, making a total of 145,469 tenements. Out of this number 145,017

were provided with sanitary fittings which required to be connected with the sewerage system, and 141,139 had been connected, including the 457 outside gazetted areas. Of the remaining 3,878 tenements, 1,669 were in progress of connexion, while on 2,209 tenements connexions work had not been commenced.

The following statement shows the progress of house connexions to the 31st December, 1915:—

PROGRESS OF HOUSE CONNEXIONS WITH THE SEWERAGE SYSTEM IN MELBOURNE AND SUBURBS.

Municipality.				No. of Tenements connected on 31st December. 1915.	
Melbourne City				26,497	
South Melbourne City				10,715	
Prahran City				11,593	
Fitzroy City				7,863	
Richmond City				10,124	
St. Kilda City				6,656	
Collingwood City				8,300	
Footscray City				6,031	
Hawthorn City		• • • •		6,070	
Brunswick City				8,040	
Essendon City		.4.		6,717	
Malvern City				4,714	
Caulfield City				3,635	
Northcote City		. A		4,595	
Camberwell City				3,026	
Brighton Town				3,403	
Port Melbourne Town				. 2,982	
Williamstown Town				3,231	
Kew Town		100		2,501	
Coburg Town				1,708	
Heidelberg Shire			7	538	
Preston Shire			•••	844	
Moorabbin Shire				1,153	
Nunawading Shire				203	
		. 75	- 171		
Total	• • •	• • • • • • • • • • • • • • • • • • • •	•••	141,139	

PROGRESS REPORT OF SEWERAGE WORK.

On the 31st December, 1915, the sewerage system was practically completed in the following districts within the Board's Metropolitan area, viz.:—

Melbourne, South Melbourne, Port Melbourne, Collingwood, Fitzroy, Richmond, Prahran, St. Kilda, Moorabbin, Nunawading, and the thickly populated portions of Essendon and Malvern.

The system was nearly completed in Brighton, Hawthorn, and Footscray, and the thickly populated portions of Brunswick, Camberwell, Northcote, Preston, and Williamstown, together with the greater portions of Coburg and Kew, and, in a lesser degree, Caulfield. A fair proportion of the thickly populated portions of Heidelberg has also been completed.

During the past twelve months the work has progressed principally in Caulfield, Heidelberg Malvern, Northcote, Brunswick, and Preston, and, in a lesser degree, in Essendon, Footscray, and Hawthorn. Main and branch sewers have been extended in Brighton, Caulfield, Heidelberg, and Williamstown, to meet the requirements of the new reticulation areas.

Reticulation area contracts have been completed in Brunswick, Caulfield, Essendon, Hawthorn, Heidelberg, Malvern, Northcote, and Preston; also numerous reticulation extensions by contract and day labour have been carried out to provide for new buildings, or fresh subdivisions in various portions of the Metropolitan area, and reticulation area contracts and reticulation extensions by contract and day labour are now being carried out in Caulfield, Footscray, Hawthorn, and Malvern, Camberwell, Essendon, Prahran, South Melbourne, St. Kilda, &c.

The whole system was so far advanced that on the date mentioned above the sewage from 145,469 tenements could be collected, including those inside and outside gazetted areas, and 145,017 tenements could be connected. Of these, 141,139 tenements were connected, and work was in progress on 1,669 other premises. The total number of fittings connected with the system was as follows:—53 public conveniences and 80 public urinals, 163,116 water closets, 121,359 baths, 93,890 sinks, 91,886 sets of wash troughs, 44,182 lavatories, 15,635 stables, 9,324 urinals, 7,843 polluted areas and paved yards, 1,922 cellars, 1,047 slop hoppers, 295 latrines, and 325 dairies, there being also 452 tenements with no fittings to connect. The house connexions pipes join the 9-inch reticulation pipes, which are gradually collected into 12-inch, 15-inch, and 18-inch pipes, and then again into brick and concrete branch sewers, which join the sub-mains and mains. In all 1;3624 miles of reticulation and $150\frac{2}{3}$ miles of mains and branch sewers have been completed, making a total length of 1,513 miles.

Particulars of the system are as follows:-

The sewage of the metropolis is delivered into two main sewers and a subsidiary main leading to the pumping station at Spotswood.

The two main sewers are-

1. The North Yarra main sewer (North Yarra system), which commences with Heidelberg, and thence takes up East Kew, Preston, Coburg, Northcote, Brunswick, the Clifton Hill part of Collingwood, also Fitzroy, and the North Carlton, North Melbourne, and Flemington and Kensington parts of Melbourne, together with Essendon and Footscray.

2. The Hobson's Bay main sewer (South Yarra system), which starts at Sandringham, picking up Brighton, Caulfield, Malvern, St. Killing, Camberwell, and a small part of Nunawading, besides the remaining part of Kew, also Hawthorn, Prahran, South Melbourne, Port Melbourne, Richmond, and the remaining part of Collingwood, with East Melbourne, and other remaining parts of Melbourne.

The subsidiary main, which takes in Williamstown, joins the

Hobson's Bay main before it enters the pumping station.

PUMPING STATION, RISING MAINS, AND OUTFALL SEWER.

When collected at Spotswood the two systems are dealt with in separate buildings, and are arranged to be worked either separately or unitedly. The sewage enters the pumping station at a level of 50 feet below low-water mark through straining Wells, one of which is established on each system. The wells are of 22 feet internal diameter, and each contains two straining cages, one of which is always in position. The solid matter caught in them is transferred to a drier in the building over the wells, where it is subject to steam pressure and consequently to a high temperature, which renders the material innocuous. The material from the drier is of no manurial value and is destroyed in a furnace. The sewage is raised by the pumps 125 feet through two 6-feet and one 4-feet wrought-iron rising mains -the three lengths running side by side, each 2 794 miles long (an aggregate length of 8:38 miles)—to the head of the outfall sewer, at Brooklyn, 75 feet above low-water mark, whence it gravitates to the Metropolitan Sewage Farm at Werribee in a partly-open and partlyclosed channel 16 miles long, of 11 feet diameter, and having a grade of 2 feet to the mile. The full capacity of the outfall sewer is 18,000 dubic feet a minute.

METROPOLITAN SEWAGE FARM.

The purification of the sewage of Melbourne and Suburbs is effected by filtration and aeration through the natural stoil of the Sewage Farm, which contains 11,153 acres 1 rood 5½ perches of land situated about 24 miles south-west of Melbourne and 4 miles touth-west of the township of Werribee in open plain country, enjoys an average rainfall of 18 inches, and has the Werribee River for its eastern boundary, with a long frontage to Port Phillip Bay on the south (extending from the mouth of the Werribee River to the mouth of the Little River), to which the land gradually slopes from the north, the highest point being 44 feet above low-water mark. The head of the rising main at Brooklyn is, as has been mentioned, 75 feet above low-water mark and the sewage flows by gravitation from there to the fairn, a distance of 16 miles, where the point of delivery is 37 25 feet above low-water mark.

To irrigate the portion of the farm above that level necessitates pumping, and in the meantime most of the high land is being used for dry farming, cereal crops being grown.

The farm originally comprised 8,847 acres 0 roods 54 perches at virgin unimproved land, which (together with a strip 111 miles long, containing 1682 acres, on which the greater portion of the main outled! sewer from the pumping station to the farm is constructed) cost the Board £159,873 in 1892. By an Act of Parliament passed on 11th August, 1911, the Crown was authorised to sell to the Board at 22 per acre an area of 305 acres 3 roods 11 perches of low-lying Crown land along the foreshore of the bay adjoining the sewage farm. By another Act of Parliament, passed on 11th December, 1912, a further area of 815 acres 1 rood 8 perches of foreshore land was acquired from the Government at £2 per acre. This land, extending westerly to the mouth of the Little River, gave the Board a frontage to the bay, extending from that river to the Werribee River. An area of 252 acres 3 roods 7 perches of irrigable land adjoining the sewage farm on the south-west was acquired by private treaty at £15 per acre during 1913; 120 acres 2 roods 38 perches of private land adjoining the above area has since been acquired at £5 12s. 6d. per acre, and 811 acres 2 roods 16 perches at the north-east corner of the original farm area has been purchased from the Lands Purchase and Management Board at The last two purchases were made in 1914. acquirement of these areas has increased the size of the Sewage Fairs to 11,153 acres 1 rood 51 perches.

Before being required for sewage disposal the greater portion of the farm was leased by the Board to hay and grain growers, and providhighly productive under wheat, oats, and barley. The rents rangedup to about 30s. per acre, and for a number of years averaged over 21

per acre over the whole area let.

the method followed by the Board was to gradually resume the land from the tenants as it was required for sewage filtration purposes in order to keep pace with the progress of the sewerage house connections work in the Metropolis. It has now all been resumed, but there is a considerable area yet to be brought under irrigation, preparation for

which is carried on continuously.

The process of preparation generally followed is as follows:—After being divided by roads into rectangular blocks of 80 acres the blocks are again subdivided into paddocks of 20 acres (20 chains by 10 chains). The soil is broken up by steam ploughs, the bottom being subsoiled to a depth of about 2 ft. 6 in., and, where necessary, underdrained with agricultural pipes. The blocks are then graded into bays of about half an acre each, and commanded by distributing drains to facilitate rapid flooding—where the natural contour of the country is uneven it is found necessary to grade the blocks in small terraces; deep drainage channels are cut, the earth from same being thrown up to form embankments to carry the main supply carriers along the boundaries of these 20-acre blocks, which are at the same time securely fenced, and planted with trees for shelter and breakwinds. The main carriers and drains run parallel north to south through the farm being half a mile apart;

the sub-carriers and drains branch east and west every 10 chains. The available area of the 20-acre block is reduced to about 18 acres by the space occupied by the carriers, drains, roads, and plantations. The prepared blocks are generally sown with lucerne or perennial grasses (chiefly prairie or rye) or a mixture lucerne and prairie grass, and in a few months are ready to be flooded with sewage. The resultant growth is very rapid, and (with the exception of a few hundred acres of lucerne reserved for hay) the irrigated lucerne and grasses are pastured with sheep, cattle, and horses; the practice being to keep the stock shifting from block to block (in flocks of about 500 sheep or an equivalent number of horses or cattle to each 18 acres) to the feed down in front of the sewage water. The filtered sewage is discharged into the bay by a series of main effluent channels running

A large proportion of the farm lands will necessarily never be available for irrigation purposes. One hundred and twenty-nine acres have been devoted to sites for townships and manager's and workmen's cottages, of which last there are 57 on the farm. There are a present 41 acres of plantations and reserves, and the private roads and channels account for a further 456 acres; the area so utilized must of course increase as additional sections of the farm are brought under irrigation. These three items—cottage and township sites (129 acres), plantations and reserves (441 acres), and private roads and channels (456 acres)—

at present account for 1,026 acres.

parallel north and south through the farm.

As each acre of properly prepared land under irrigation suffices to deal with the sewage of only 100 persons, and as there are upwards of 1000 additional tenements connected with the sewerage system each part in 1914-15 there were 6,940 additional tenements connected), it will be seen that it is only a matter of a few years before an the available land of the original purchase will be under intense irrigation; hence the necessity for the acquirement of the additional areas previously referred to.

The total area available for sewage disposal at 30th June, 1915, was 7,593 acres, and the average quantity of sewage delivered daily on to this area during the year 1914-15 was 29,521,144 gallons = 1082 acre-feet per day = 51 feet per annum over the whole of the prepared part of the farm.

Of the area under irrigation, 349 acres were sown with maize for grain, and 580 acres of lucerne were cut for hay, leaving 5,464 acres of grasses, and small areas under fodder crops of maize, cats, and

rape (totalling 277 acres) to be depastured with stock.

Notwithstanding the large quantity of sewage water required to be put on the pastures summer and winter alike, the effective filtration of which must be the Board's first consideration, a considerable profit a derived from the farming and grazing operations. The principal sources of revenue are from the fattening of store sheep and cattle and the grazing of horses on agistment. The maximum stock carried in spring was 800 horses, 19,000 sheep, and 2,000 cattle, and the

minimum in winter 1,150 horses, 7,000 sheep, and 3,000 cattle, the general practice being to gradually reduce the stock from the spring maximum to the minimum in winter. The profits from transactions in sheep and cattle for the year 1914-15 were—from sheep, £5,954; from cattle, £16,099. The revenue from agistment (principally horses) was £6,851. The fat stock from the farm always excite keen competition from butchers and freezers, and command high prices.

The following are particulars of the sales for the year ended 30th June, 1915:—

T				£		d.
Lucerne (Chaff ar	id Hay)	• •	j	16,691	8	10
Barley (Grain and	i Straw)	• •		2,348	2	3
Oaten Chaff	••	• •	•••	384	8	9
Maize	••	••		2,381	1	5
Potatoes	••	• •	• •	60	12	6
T	otal	•/•		21,865	13	9
						•

Experiments are being carried on to ascertain the varieties of lucerne and maize best suited for growing on the sewage farm, and the varieties of grasses likely to flourish under the largest amount of winter irrigation.

The total capital cost of the farm for purchase and preparation was at 30th June, 1915, £542,659, and after paying interest on this sum and all charges in connexion with the disposal of the sewage the net profit resulting from the various farming operations and the receipts from rents of cottages, &c., for the year 1914-15 amounted to £7,601; the estimated population served by the sewerage system being 617,170. The profitableness of the farming and grazing operations is 'largely influenced by the climatic conditions of the State generally, and the net cost of sewage purification varies accordingly from year to year. The average for the five years 1910-11 to 1914-15 was 3.42d. per head per annum.

The sewage farm is supplied with water for stock and domestic purposes from the metropolitan water supply system.

Statistical details relating to the farm for the year 1914-15 or as at 30th June, 1915, are as follows:—

Total area of farm				Acres. 11,153
Area sown with grasse Area of settling pits a lucerne or grasses—	under fodder er	ops other	than	5,464
Maize, 164 acre acres	es; Oats, 18 acr	es ; Rape,	9 5	277
Total area of ir grazing	rigated pasture	available	for	5,741

서울었다. 하는 그 아름지지 않는데 그는 마쁜 80년	Acres
Area under bucerne for hay	580
" " maize for grain · · ·	349
Total area under irrigation and intense culture	6,670
Area prepared for settling pits for winter sewage	923
Total area prepared for irrigation and sewage	7 ¤09
dasposal · · ·	7,593
Area under preparation for irrigation	
Total area prepared and under preparation for	
irrigation	7,871
Area under cereal crops (wheat, barley, and oats) not	0 A
included above	676
Area under bare fallow	642
,, of swampy ground reserved for settling pits Areas reserved for cettage sites (102 acres) and town-	938
ship sites (27 acres)	129
plantations and reserves	441
", private roads and channels	456
Total area of farm	11,153
Acres	580
Incerne hay—area cut Total yield of lucerne hay for season Tons	2,443
Maize for grain—area harvested Acres	. 349
Average yield per acre	29
Fodder crops (other than lucerne or grasses)	Aores.
	164
Maize	18
Oats Rape	95
Total	277
Area sown with grasses	5,464
Portion of area under lucerne for hay	198
" " " maize for grain	116
	6,050
Total area available for stock	0,000
Acreage carrying sheep	2,000

Number of sheep and cattle purchased and sold for year ended 30th June, 1915—

year ended 30th Ju	ne, 1915—		
	Horses.	Sheep.	Cattle.
Purchased		26,322	3,553
\mathbf{Sold}	••	22,084	4,052
Stock carried—	•		
Maximum in spring Minimum in winter	g— 800 r— 1,150	19,000 7,000	2,000 3,000
Profits from transaction			
Sheep & Cattle			£5,954 16,099
Total			£22,053
Agistment fees (p	rincipally ho	rses) .,	£6,851
Mon one-low-1 has D			No.
Men employed by Boa	rd on tarm	• •	169
Population resident on	farm over 9	l woong of a so	n 240
,	under	21 years of age	·· 144 150-
Total			294
Houses on farm owned	by Board		57
Horses owned by Boa	rd—	ad Windide	
Working horses-			78
22	Light		23
Brood mares Foals		••	21
roals		•••	., 18
Total			140
Progress .	of Constructio	n Works.	

젊으리의 그들이 다른 일을 가는 그는 가는 가입니다. 선생기들의	Acres.
Area steam ploughed for irrigation	7.218
" , for plantations and reserves	188
" mole-drained by steam plant	1,145
" underdrained with pipes	610

				Miles.	
	main carrier emba	nkments.	-cement lined unlined	$\begin{array}{c} 8 \\ 22 \end{array}$	10 30
• • • • • • • • • • • • • • • • • • • •					. .
To	al	• •		. 30	40
					
ength of	subsidiary carrie	rs			
	flumes			. 15	62
	flumes	•••		. 4	72 66
Emb	ankments unlined	• •		. 20	
To	tal .			. 59	40
		•		. 31	35
Length of	main drains	••		. 88	70
,,	subsidiary drains	••	•	27	1
" "	pipe drains agricultural pipes	••		. 32	49
To	otal	anda Japan ••maa		. 179	75
				<u>ئىنى</u> ي	
Length o	f water pipes laid—	-6-inch		. 2	25 7
,,	,	4-inon		. 11 . 0	7
• • • • • • • • • • • • • • • • • • • •		3-inch		. 14	7
. 19	,,	2-inch	•	$\ddot{2}$	33
,		1½-inch 1-inch		. 3	53
,,	"			33	52
T	otal ··	• •	aratika <mark>, •</mark> • um De tenan	. əə —	- 02
T	of monda formed			33	14
Length o	of roads formed fencing erected			314	23
	" wire nett	ed		6	23
					No.
				917	,000
Trees pl	anted \cdots			Δ.	,,,,,,,,,,,
farm 108	quantity of sewag for year 1914-15 = 3 acre-feet per da	$ = \text{in gallor} $ $ v = 5\frac{1}{2} \text{ for } $	et per annum	2 9,521	,144
over t	he total area availa	adie for se	wase dishosar		
	,593 acres. pital cost of farm	to 30th Ju	ıne, 1915	£ 54	2,65
10 miles					
DC+	n sewage farm for y	70ar 1914	-15	£	7,60

FIRE BRIGADES BOARDS.

Connected with the water service of the State generally is the service of water required for fire extinction.

Under the *Fire Brigades Act* 1915, there are constituted a metropolitan fire district, controlled by the Metropolitan Fire Brigades Board, and nine country fire districts, controlled by the Country Fire Brigades Board. The supervisors are the chief officers of the respective Boards, who are aided by deputies and other assistants.

The arrangements for fire extinction in the metropolis are closely allied to those for the Melbourne water supply, the service having been provided under the clauses of the *Fire Brigades Act* 1915, and its amendments.

The Metropolitan Fire District embraces the area included in the various municipalities within a radius of ten miles from the General Post Office. The area vested in the Melbourne and Metropolitan Board of Works is included in this area, but the Metropolitan Fire Brigades Board has jurisdiction over portions of the shires of Wyndham, Braybrook, Keilor, Broadmeadows, Heidelberg, Templestowe, Nunawading, Mulgrave, and Moorabbin, within the 10-mile radius, which are not vested in the Melbourne and Metropolitan Board of Works. The Metropolitan Fire District includes the greater portion of the shire of Moorabbin, and it extends in a southerly direction as far as Mordialloe, that township being included.

The Metropolitan Fire Board is composed of nine members, of whom three are appointed by the Governor in Council, three by the municipal councils, and three by the insurance companies.

Powers of the Board. A section of the Fire Brigades Act provides that for the purpose of extinguishing any fire the chief officers of the fire brigades may in the areas under their respective control "cause water to be shut off from any main or pipe in order to obtain a greater pressure and supply of water for the purpose of extinguishing any fire, and no person or body having the management of any water supply shall be liable to any penalty or claim by reason of any interruption of the supply of water occasioned by compliance with the provisions of this section."

Another section of the Act provides that "each Board, its officers and servants, any local committee, its officers and servants, and any brigade registered under this Act shall have the use of all water mains, water plugs, valves, pipes, vested in or belonging to the Board of Land and Works or any public or municipal corporation, or local body whatsoever, and of all water therein, or in any well or tank, free of charge, for the purpose of extinguishing any fire, or for the purpose of drills, competitions, and practice, conducted under the authority of either board or any local committee."

Local councils have the right, in the interests of fire prevention, with the approval of the Governor in Council, of making, altering, or repealing by-laws for the purpose of regulating the height of all

buildings erected in their own remnicipality, or in any part of it, and also for providing means of escape from such buildings during a fire.

The general duties of the Fire Brigades Boards are defined to be those "of taking, superintending, and enforcing all necessary steps for the extinguishment of fires, and for the protection of life and property in case of fire, and the general control of all stations and of all fire brigades shall be vested in the Boards for the metropolis and country districts respectively. The Boards may purchase or lease property for fire brigade stations, and control the formation of permanent and volunteer fire brigades, and schools of instruction, the maintenance of fire alarms, and the establishment of communication, telephonic and other."

The Melbeurne and Metropolitan Board of Works is bound to keep add its pipes, to which fire plugs are affixed, charged with water, unless prevented by unusual drought or other unavoidable cause, or during necessary repairs, and shall allow all persons at all times to take and use such water for extinguishing fires. On 30th June, 1915, the Board had fixed to its 222 miles 42 chains of leading mains and 1,253 miles 661 chains of reticulation mains, 2,894 pillar hydrants, 121 Tregear patent hydrants, and 14,761 ball fire plugs, viz., 14,739 Bateman and Moore (of which 1,441 are with spring) and 22 Fowler patent—a grand total of 17,776. Except in case of accident, repairs, or cleaning, these mains are kept constantly full of water under pressure.

The Melbourne and Metropolitan Board of Works, under the water supply provisions of the Consolidated Act of 1915, must, upon the request of any municipal council within its boundaries, fix proper fire plugs, in the main and other pipes belonging to the Board, at convenient distances, and at such places as the Board may consider proper and convenient for the supply of water for extinguishing any fire which may break out within its limits. The cost of fixing fire plugs and notice boards, together with the cost of their maintenance, must be defrayed by the municipal council within whose limits the fire plug is fixed. The Board may also fix fire plugs for private ewners, provided they pay the cost and maintenance.

The Metropolitan Fire Brigades Board on 31st December,

1915, had under its control the following:—Forty-six
stations, 241 members of permanent staff, 35 members of
special service staff, 7 members of clerical staff, 18 men
engaged in the workshops, 130 partially paid firemen, 10 steam
fire engines, 4 gasolene engines, 3 petrol motor fire engines, 1 motor
salvage waggon and chemical engine combined, 2 motor combination appliances, 21 motor hose waggons, 2 motor cycles, 1 motor
lerry, 1 Chief Officer's motor car, 34 horse hose reels, 28 hand hose
reels, 8 extension ladders and fire escapes, 6 Pompier ladders, 10
exercise and supply carts, 1 salvage wan, 47 horses, 118,071 feet
of hose, 42 hand pumps, 6 smoke helmets, 2 smoke jackets, and
278 fire alarm circuits having 862 street fire-alarms, of which 840

contained telephones, and the remaining 22 were fire alarms only. There were also 507 auxiliary boxes and 19 automatic systems in public and other buildings, 136 direct telephone lines, 58 of which were acting as fire alarms to buildings, and 29 circuits to sprinkler installations, with 59 sprinkler call transmitting instruments. The total length of wire in use outside stations for fire alarms and telephones is about 689 miles.

During 1915 the cost of maintenance of the Metropolitan Fire Brigade was £89,819, one-third being contributed by each of the contributing bodies, viz., Government of Victoria, municipalities within the Metropolitan Fire District, and the insurance companies carrying on business in that district. The municipalities' contribution is equal to *83d. in the £1 over an area wherein the property is valued at £7,365,249, and that of the insurance companies is equal to £5 1s. 8d. for every £100 of premiums on insured property. The premiums received in the Melbourne Fire District in 1914 amounted to £502,763, and the total of the payments made by the companies in 1915 for the maintenance of the fire brigade system was £25,565.

The Country Fire Brigades Board consists of nine members. Three are appointed by the Governor in Council, two are elected by the municipal councils of the districts in which there are brigades registered under the Board, two are elected by the fire insurance companies carrying on business in such districts, and two by the registered fire brigades. The Board annually elects one of its members as president. The tenure of the Board members is two years. The Board's revenue in 1915 was £16,073, which was obtained from the following sources:—(a) Government, £5,266; (b) municipalities, £5,433; (c) insurance companies, £5,338; and (d) other sources, £36. The expenditure for the year amounted to £16,470. There are 108 municipal councils and 66 insurance companies included in the operation of the Act. The premiums received by the insurance companies in country districts during the year 1914 amounted to £205,636, and the total of their contributions in 1915 for the up-keep of the brigades was £5,266. The total value of rateable property assessed within the Board's district in 1915 was £1,812,542. All brigades under the control of the Board are volunteer brigades, but in the large towns a few permanent stationkeepers and watchmen are also employed. There are 128 registered brigades, and one more is about to be registered. The number of registered firemen is 2,708, but in many brigades there is, in addition to the registered firemen, a number of "reserve members." The Chief Officer of the Board frequently inspects the brigades, and also pays them "surprise visits." reports monthly to the Board as to the efficiency of the service, and in regard to the equipment necessary to be supplied. In 1915 the chief items of the plant consisted of 5 steam engines, 1 motor engine, 63 manual engines, 11 horse brakes, 61 apparatus carriages, 3 fire escapes, about 280 hose reels, and approximately 180,000 feet of canvas hose.

Particulars of receipts and expenditure of both Boards during the five years ended 30th June, 1915, are as follows:—

REVENUE AND EXPENDITURE OF FIRE BRIGADES BOARDS : RETURN FOR FIVE YEARS.

	1911.	1912.	1913.	1914.	1915.
Ordinary Receipts.	£		£	£	£.
Contributions — Govern-					
ment, Municipal, and	69,837	78,206	82,540	85.036	93.831
	3,106	5,172	5.941	8,241	6,634
Receipts for Services	3,039	2,109	3.725	1,261	9,993
Total	75,982	85,487	92,206	94,538	110,458
Ordinary Expenditure.					
Salaries	40,939	48,798	50,426	54,285	56,104
Fire Expenses	3.297	3,183	3.233	3,312	3,261
Administrative Charges, &c.	13.874	16,517	15,584	19,515	24,056
Plant-Purchase and Re-	10,012	10,011	10,001	10,010	,000
pairs	4.185	7.176	4,592	4.112	4,224
Interest	5.806	5,995	5.928	7.217	8,838
Sinking Fund	2.000	2,000	2.430	2,215	2,735
Firemen's Accident Fund	500	550	550	650	604
Miscellaneous	6,456	6,243	4,580	4 624	6,467
Total	77,057	90,462	87,323	95,930	106,289
Loan Expenditure.					A 40 10
Purchase of Land and					
Erection of Buildings,&c.	72	417	14,796	19,373	28,808