CHAPTER XIX.

LOCAL GOVERNMENT.

§ 1. Introduction.

1. Local Government Authorities.—In each State of the Commonwealth, there exists a system of local government whose powers and responsibilities are in general similar and cover such matters as the construction and maintenance of roads, streets and bridges, water, sewerage and drainage systems, and health and sanitary services, the supervision of building, and the administration of regulations relating to items such as weights and measures, slaughtering, the registration of dogs, etc. In addition to these obligatory functions, there are also many which may be performed by a local government authority either with or without the consent of the ratepayers or the Governor-in-Council. These include transport facilities, electricity, gas, and other business undertakings, hospitals, charitable institutions, recreation grounds, parks, baths, libraries, museums, etc.

The system is based on the principle of a grant of specific powers by the State legislatures to the local authorities, their autonomy, however, being more or less limited by the provision for general supervision by a department of the central government or by the Governor-in-Council. Otherwise, within the scope of the Acts under which they are constituted or which they have to administer, they are responsible only to the ratepayers.

While the broad pattern of local government throughout the States of Australia is similar, the range of activities, election of officers, methods of valuation and rating powers, etc., differ considerably.

The areas over which local government bodies exercise general control, numbering 912, are known in New South Wales as cities, municipalities and shires; in Victoria as cities, towns, boroughs and shires; in Queensland as cities, towns and shires; in South Australia as cities, corporate towns and district council areas; in Western Australia as cities, municipalities and road districts; and in Tasmania as cities and municipalities. In New South Wales, some local government authorities in an area have combined to provide services such as electricity, water, sewerage and drainage—e.g., the county councils. Within shires, there are also some municipal units known as urban areas. Apart from the more thinly populated parts of New South Wales and South Australia, and the Commonwealth Territories, practically the whole of Australia comes within local government jurisdiction.

The financial statistics in § 2 following are classified under the headings of Ordinary Services and Business Undertakings. The former covers the obligatory and general functions referred to above. Business Undertakings include public utilities such as water supply, sewerage, electricity, gas, transport and hydraulic power undertakings, and other miscellaneous works such as abattoirs, quarries, ice works, cinemas, etc.

- 2. Semi-Governmental Authorities.—In addition to local government authorities, a large number of authorities have been set up to control specific activities, which are often identical with some of those performed by either, or both, of the other classes of public authority—central government and local government—and a complete picture of any field of activity for a State or Australia as a whole cannot be obtained without reference to each class operating in that particular field. These semi-governmental authorities differ primarily from local government authorities in that their operations are restricted to the specific activity for which they were constituted—e.g., roads and bridges, or water and sewerage, or electricity and irrigation, or harbours, or tramways, etc.—i.e. each dispenses a specific service throughout an area as distinct from the general services of the local authority.
- In §§ 3 to 7, which deal with debt, roads and bridges, water supply and sewerage, harbours, and fire brigades, particulars are included of the more important of these authorities which operate within the range covered by this chapter.
- 3. Roads, Bridges, etc.—The construction and maintenance of roads, bridges and ferries are generally part of the functions of local authorities, but in each State there exists a central road authority or a government department whose duties relate to the construction, reconstruction and maintenance of "main" and "developmental" roads, the distribution of funds to local bodies, and the supervision and co-ordination of road construction and policy throughout the State. Although roads and bridges constructed and maintained directly by the government or by the central road authority do not properly come under the heading of "Local Government", they have been included in this chapter for the

sake of convenience. Owing to difficulty in obtaining complete particulars of receipts and expenditure by the various local governing bodies in respect of roads under their control, the details of receipts and expenditure given in § 4 are those of central governments only, relating either to the supervisory board or commission in the State or to direct activities of a department. In § 2, some information is given of the revenue and expenditure of local government authorities in respect of roads.

- 4. Water Supply and Sewerage.—In the cities of Sydney and Melbourne, the control of water supply and sewerage is in the hands of special boards, while in Adelaide and Perth these services are under the direct supervision of government departments. In most of the other cities and towns, the municipal councils. or, in some cases, water trusts, are the controlling bodies which either construct the works out of their own resources or take them over after they have been constructed by the government.
- 5. Harbours.—The majority of the harbours in Australia are managed by boards, the members of which are either elected by persons interested, or are appointed by the government. In some instances, however, they are directly controlled by the government.
- 6. Fire Brigades.—In all the States, the management of fire brigades is undertaken by boards. These boards usually comprise members elected by the councils of municipalities and insurance companies within the districts placed under their jurisdiction, and one or more members appointed by the government. Occasionally volunteer or country fire brigades are represented.
- 7. Other Local or Semi-Governmental Activity.—The activities referred to above are not the only forms of local or semi-governmental undertakings. There are others, the most important being tramways and omnibus services, and electricity and gas undertakings, which are not dealt with in this chapter, except to the extent that they are represented in the finances as shown in the following section. Chapter XIV., Transport and Communication, contains information on municipal transport services, and Chapter VII., Electric Power Generation and Distribution, deals with the various types of electricity undertakings in each State. In addition, particulars of municipal electricity and gas undertakings, although not shown separately, are included in the relevant sections in Chapter VI., Manufacturing Industry.

§ 2. Local Government Authorities.

1. New South Wales.—For purposes of local government, the whole of the Eastern and Central land divisions and a small portion of the sparsely populated Western division have been divided into cities, municipalities (most principal towns) and shires (mainly large rural areas, some of which embrace important towns). At the end of 1954, the area incorporated was 184,000 square miles, or nearly three-fifths of the total area of the State.

All local government authorities in the State are subject to the general provisions of the Local Government Act.

Municipalities and shires may combine to form county councils for the establishment and conduct of services of joint benefit, e.g., electricity, water, sewerage. There were 38 county councils and the Grafton and South Grafton Water Board at 31st December, 1956.

- 2. Victoria.—Local government is established throughout the State, the various divisions being termed cities, towns, boroughs or shires. The only unincorporated areas are French Island (42,000 acres) in Westernport Bay, Julia Percy Island (650 acres), off Port Fairy, and Tower Hill (1,460 acres), adjacent to the Borough of Koroit. Melbourne and Geelong were incorporated under special statutes prior to the establishment of a general system of local government, but are now subject to several provisions of the Local Government Act.
- 3. Queensland.—The whole of the State (except certain islands along the coast, the Dawson Valley Irrigation Area and the Somerset Dam Area) is incorporated into cities, towns and shires under the Local Authorities Act 1902 and its amendments.
- 4. South Australia.—The settled portion of South Australia is incorporated, being mostly under municipal corporations in the larger cities and towns, and district councils in the agricultural areas.
- 5. Western Australia.—In this State, local government is carried on by means of municipalities and district road boards, the whole of the State being so incorporated.
- 6. Tasmania.—The whole State is divided into municipal districts, Hobart and Launceston being incorporated as cities under separate Acts.

7. Area, Population, Dwellings and Value of Ratable Property.—The area, population, dwellings and value of ratable property in the incorporated areas of each State are shown in the following table. The valuations relate to ratable property only and exclude Government and other non-ratable property, whose value in the aggregate is considerable. In this table, particulars of dwellings are in accordance with the definition used in the 1954 Census, and are compiled from information collected on the Census Schedules. For the purpose of the Census, a dwelling was defined as any habitation occupied by a household group living together as a domestic unit, whether comprising the whole or only part of a building. The term has, therefore, a very wide meaning and includes, in addition to houses and flats, a great variety of dwellings ranging from a single-roomed shack to a multi-roomed hotel or institution. Unoccupied dwellings include "week-end" and holiday dwellings and other dwellings temporarily unoccupied on the night of the Census. Dwellings being built are not included.

LOCAL GOVERNMENT AUTHORITIES: AREA, POPULATION, DWELLINGS AND VALUE OF RATABLE PROPERTY, 1955-56.

			1	Dwe	llings.	Value of	Ratable	Property.
Local Bodies.	Number	Area.	Popula- tion.	Occu- pied.	Unoccu- pied.	Unim- proved Capital Value.	Im- proved Capital Value.	Annual Value.
		'000 Acres.	'000.	No. (a)	No. (a)	£'000.	£'000.	£'000.
		New S	отн W	ALES.(b)				
Metropolitan-	,			ادع عدما	1 000	107.567		
Capital City	1 34	7! 702	188 1,759	52,763 470,664	1,099 13,464	107,567	311,158 1,359,740	
Outside Metropolitan Area	201	132,647	1,579	385,517	28,128	382,137	(c)	(c)
Total	236	133,356	3,526	908,944	42,691	825,241		(c)
		V	ICTORIA.	(d)				
Metropolitan-		ام	ابه	22.240	455	1		
Capital City	41	438	91 1,583	22,348 371,340	455 6,316	(c) (c)	175,313 918,426	8,766 47,625
Outside Metropolitan Areae	161	55,630	970	267,089	20,713	(6)	785,849	39,314
Total	203	56,076	2,644	660,777	27,484		1,879,588	95,705
		Qu	EENSLANI					
		1	500	122.04	2010			
Capital City Outside Metropolitan Area	133	246 428,874	502 809	133,064 205,598	3,948 17,436	63,142 98,514	(c) (c)	(c) (c)
Total		429,120		338,662		161.656		(c)
			AUSTRA					
Metropolitan-	i			,				
Capital City	1	4 99	29					
Other Outside Metropolitan Area	20 122	34,531	485 319	126,649 78,505	2,737 5,399 l		227,000 232,000	
Total	143	34,634	333	212,608	8.347	(c)	530,000	26.517
			N AUSTR					
		1					ī .	
Metropolitan—	1	14	100	25,460	577	1,190	(3)	4,506
Capital City	19	107.	268	65,281	1,262	30,280	(c) (c)	1,739
Outside Metropolitan Area	127	624,467	309	72,082	4.775	42,904	(c)	1,418
Total	147	624,588	677	162,823	6,614	74,374	(1)	7,663
		T	ASMANIA.	(g)				
Metropolitan-		10	اءء	14.624	375	0 107	35 601	1 703
Capital City	1 2	18 99	55 ¹ 42	14,624 9,333	531	8,197 6.695		1,783 1,417
Outside Metropolitan Area	46	16,661	222	54,905	4,382	32,027	115,222	6,082
Total	49	16,778	319	78,862	5,288	46,919	172,636	9,282
(a) Particulars of dwell			us 30th Ju	ne, 1954.	(b)		ed 31st D	_

⁽a) Particulars of dwellings are as at Census 30th June, 1954. (b) Year ended 31st December, 1955. (c) Not available. (d) Year ended 30th September, 1956. (e) Excludes Yallourn Works Area under the jurisdiction of the State Electricity Commission. (f) Year ended 30th June, 1954. (g) Year ended 30th June, 1956. (h) Municipalities—Year ended 31st October, 1956; Road Districts—Year ended 30th June, 1956.

^{8.} Finances.—(i) General. The following tables show the latest available financial statistics for local government authorities. The figures relate to the year 1955–56, except for New South Wales, where they relate to the year 1955 and for Queensland, where they relate to the year 1953–54.

(ii) Ordinary Services. In the returns of revenue and expenditure for 1955-56 in the following table, the proceeds from loans and expenditure thereof have been excluded. The financial operations of business undertakings controlled by the various local government authorities are given in the next paragraph. The profits resulting from the working of these undertakings, where taken into general revenue, have been included.

LOCAL GOVERNMENT AUTHORITIES: ORDINARY SERVICES—REVENUE AND EXPENDITURE, 1955-56.

		EXPER	DII UKE,	1955-50.			
Particulars.	N.S.W.	Vic.	Q'land.	S. Aust. (d)	W. Aust.	Tas. (d)	Total.
Number of Local Government Auth- orities	236	203	134	143	147	49	912
	Revenu	E (EXCLUD	ing Loan	RECEIPTS)	. (£'000.)	1	
Taxation— Rates (net)	23,894	15,325	2	∫ 4,081	2,650	1,575	<u> </u>
Penalties	135	44 92	} 8,961 75	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	54	1,575	} 56,666 780
Total	24,521	15,461	9,036	4,133	2,704	1,591	57,446
Public Works and Services— Sanitary and							
Garbage Services Council Properties Street Con-	2,823 2,388	(f) 1,227 2,278	2,073 594	44 347	428 747	83 205	6,678 6,559
struction Other	1,380 1,758	1,041	184 64	(g) 424 200	227	23 43	3,279 2,406
Total	8,349	4,834	2,915	1,015	1,455	354	18,922
Roads Other	6,922 1,343	96 595	(h) 1,687 (h) 1,326	2,138 52	1,066 1,092	238 30	12,147 4,438
Total Profits from Business	8,265	691	3,013	2,190	2,158	268	16,585
Undertakings		293	1		32	<u></u>	326
Fees and Fines	-:	91 254	419	91 136	14 196	} 147	1,348
Total Revenue	41,135	21,624	15,384	7,565	6,559	2,360	94,627
Ex	KPENDITURI	E (EXCLUDI	NG LOAN	EXPENDIT	URE). (£'(000.)	
General Adminis- tration	2,717	3,327	1,359	618	834	270	9,125
Debt Services (excluding Business Undertakings)— Interest Redemption Exchange	1,324 2,890 20	789 1,029	1,184 1,752 180 18	101 473	238 468	87 146	3,723 6,758 200 42
Total	4,234	1,842	3,134	574	706	233	10,723
Public Works and Services— Roads, Streets and	40.000						
Bridges Health Adminis- tration	20,099 768	7,720 899	5,143 225	5,004 104	2,176 188	1,064 51	41,206 2,235
Sanitary and Garbage Services	3,506	1,850	1,210	314	506	115	7,501
Street Lighting Council Properties	953 5,163	423 (i) 4,255	220 1,484	150 693	88 1,975	65 320	1,899 13,890
Other	1,324	217	(j) 1,715	121	89	69	3,535
Total Grants—	31,813	15,364	9,997	6,386	5,022	1,684	70,266
Fire Brigades Hospitals and	229	321	156	86	77	37	906
Ambulances Other Charities Other	} 156 (k) 755	{ (<i>i</i>) 1,046	2 3 276	147 3 14	} 13	{ 10	} 2,541
Total	1,140	1,474	437	250	98	48	3,447
All Other Total Expenditure	1,034	208	15,120	7,828	6,804	217	1,796 95,357
						and are o	

⁽a) Figures for New South Wales relate to the year ended 31st December, 1955, and are on an income and expenditure basis as distinct from those of other States which are on a cash basis. (b) Year ended 30th September, 1956. (c) Year ended 30th June, 1954. (d) Year ended 30th June, 1956. (e) Municipalities—Year ended 31st October, 1956; Road Districts—Year ended 30th June, 1956. (f) Includes £940,000 plant hire. (g) Includes £65,000 reimbursement to Highways Department for work done. (h) Includes £927,000 for sewerage and drainage. (i) Includes £983,000 plant. (j) Includes £1,148,000 for sewerage, mosquito control and drainage. (k) To Main Roads Department. (l) To Country Roads Board.

The following table shows the revenue and expenditure (excluding loan) of local government authority ordinary services for the years 1938-39 and 1951-52 to 1955-56:—

LOCAL GOVERNMENT AUTHORITIES: ORDINARY SERVICES—REVENUE AND EXPENDITURE. (£'000.)

Year 6	N.S.W.(a)	Victoria.(b)	Q'land.	S. Aust.	W. Aust.(c)	Tas.	Total.
		REVENUE	(EXCLUDIN	g Loan R	ECEIPTS).		
1939	 10,657	6,070	4,178	1,579	1,447	519	24,450
1952 1953 1954 1955 1956	 24,170 30,750 33,104 36,348 41,135	13,504 15,641 17,213 18,813 21,624	12,472 13,816 15,384 (d) (d)	4,390 4,938 6,204 6,560 7,565	4,158 4,988 5,352 5,917 6,559	1,590 1,800 1,954 2,190 2,360	60,284 71,933 79,211 (d) (d)
	Е	XPENDITURE	(EXCLUDIN	IG LOAN E	EXPENDITURE).		
1939	 10,790	6,193	4,335	1,558	1,489	507	24,872
1952 1953 1954 1955 1956	 24,167 29,605 31,880 35,003 40,938	14,040 15,457 16,912 18,914 22,215	12,615 13,151 15,120 (d) (d)	4,452 5,032 5,859 6,935 7,828	4,271 4,793 5,115 5,950 6,804	1,605 1,781 1,944 2,240 2,452	61,150 69,819 76,830 (d) (d)

⁽a) Years ended previous 31st December. (b) Years ended 30th September. (c) Municipalities—Years ended 31st October; Road Districts—Years ended 30th June. (d) Not available.

LOCAL GOVERNMENT AUTHORITIES: BUSINESS UNDERTAKINGS—REVENUE AND EXPENDITURE, 1955-56.

		(£	² 000.)				
Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Total.
	REVENUE	(EXCLUD	ING LOAD	RECEIPT	rs).		·
Water Supply and Sewer-]		}				
age— Rates Charges for Services and	2,002		51		10	564	2,627
Sales of Products	(a) 517 (b) 693	118 6	2,194 975	2	2	113 88	2,946 1,762
Total	3,212	124	3,220	2	12	765	7,335
Electricity and Gas— Rates Charges for Services and	276	••	10	2			288
Sales of Products Other (including Grants)	43,921 1,266	9,219 141	6,217 324	490 58	559 6	:_	60,406 1,795
Total	45,463	9,360	6,551	550	565		62,489
Railways, Tramways and Omnibuses—							
Rates Charges for Services and Sales of Products		••	3,162		:		3,162
Other (including Grants)		<u>::</u>	114	<u></u>			114
Total		••	3,276	••			3,276
Other— Rates	(b) 4	(c)	(d) ···	(e) 	(f) ₁	(g)	5
Charges for Services and Sales of Products Other (including Grants)	2,628	496 15	45 16	40		66	3,325 38
Total	2,637	511	61	40	51	68	3,368
Grand Total	51,312	9,995	13,108	592	628	833	76,468

NOTE.—See next page for footnotes.

⁽iii) Business Undertakings. The table hereunder shows, for 1955-56, particulars of the revenue and expenditure, other than loan, of business undertakings under the control of local government authorities. These particulars are not included in the foregoing tables.

LOCAL GOVERNMENT AUTHORITIES: BUSINESS UNDERTAKINGS—REVENUE AND EXPENDITURE, 1955-56—continued.

(£'000.)

Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Total.
Ex	PENDITURE	E (EXCLUE	ING LOA	n Expeni	oiture).		
Water Supply and Sewerage— Working Expenses Depreciation Debt Charges Other (including Transfers to General Revenue	(h) 1,411 (h) -107 1,059	90 7 23	1,311 7 97	2	3	360 345	3,184 —100 2,227
fers to General Revenue and Construction)		1	973			75	1,049
Total	2,363	121	3,081	2	13	780	6,360
Electricity and Gas— Working Expenses Depreciation Debt Charges Other (including Transfers to General Revenue	38,574 (h) 1,155 3,792	8,115 369 347	5,394 746	433 103	449 47 42	::	52,965 1,571 5,030
fers to General Revenue and Construction)		304	437		22		763
Total	43,521	9,135	6,577	536	560	•••	60,329
Railways, Tramways and Omnibuses— Working Expenses Depreciation Debt Charges. Other (including Transfers to General Revenue			3,081 398		36		3,117 398
and Construction)			170				170
Total			3,649		36		3,685
Other— Working Expenses Depreciation Debt Charges Other (including Transfers to General Revenue	(b) 2,468 28 62	(c) 445 14 43	(d) 3	(e) 38 	(f) 18 ::	(g) 47 	3,068 42 117
fers to General Revenue and Construction)		42	4	••		10	56
Total	2,558	544	59	38	18	66	3,283
Grand Total	48,442	9,800	13,366	576	627	846	73,657

⁽a) Includes Government grant, £591,000, for part of cost of new works borne by Government.
(b) Abattoirs, ice-works, and production of building materials.
(c) Abattoirs and hydraulic power undertakings.
(d) Municipal markets, amusement parks, botels, and cinemas.
(e) Quarries. (f) Quarries, ice-works and abattoirs.
(g) Abattoirs.
(h) Net balance after deducting charge for debt redemption. The full amount of charge for debt redemption is included under debt charges.

Nore.—For years to which particulars relate, see preceding tables. Minus sign (-) indicates an excess of credits.

The next table shows the revenue and expenditure, other than loan, of local government business undertakings for the years 1938-39 and 1951-52 to 1955-56.

LOCAL GOVERNMENT AUTHORITIES: BUSINESS UNDERTAKINGS—REVENUE AND EXPENDITURE.

(£'000.)

Year e 30th J		N.S.W.(a)	Victoria.(b)	Q'land.	S. Aust.	W. Aust.(c)	Tas.	Total.
			Revenue	(EXCLUDIN	G LOAN R	ECEIPTS).		
1939	• • •	6,405	1,814	3,374	. 113	963	528	13,197
1952 1953 1954	::	26,803 35,654 41,367	6,309 7,656 8,189	10,436 12,798 13,108	380 462 504	436 469 516	1,088 1,212 1,366	45,452 58,251 65,050
1955 1956	::	46,972 51,312	8,770 9,995	(d) (d)	547 592	569 628	1,296	(d) (d)
		E	XPENDITURE	(EXCLUDIN	IG LOAN E	XPENDITURE).		
1939		5,556	1,803	3,256	123	935	514	12,187
1952 1953 1954		27,381 34,051 38,426	6,248 7,623 7,971	10,735 12,851 13,366	395 449 474	454 469 520	1,070 1,243 1,310	46,283 56,686 62,067
1955 1956	• •	43,616 48,442	8,611 9,800	(d) (d)	558 576	547 627	1,286 846	(d) (d)

⁽a) Years ended previous 31st December. (b) Years ended 30th September. (c) Municipalities—Years ended 31st October; Road Districts—Years ended 30th June. (d) Not available.

LOCAL GOVERNMENT AUTHORITIES: LOAN EXPENDITURE ON WORKS, 1955-56.

(£'000.)

			. 000.)				
Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Total.
		ORDINAL	RY SERVIC	ES.			
Roads, Bridges, Stree Footpaths, Drainage a Sewerage Council Properties Parks, Gardens and Recretional Reserves Other	2,462 2,705 ea- 479 (a) 454	1,474 924 225 465 3,088	2,435 479 55 2,969	1,100	727 532 206 21	311 102 43 21	8,509 5,700 1,013
	B	USINESS U	JNDERTAK	INGS.			
Water Supply Sewerage	1,734	88	1,573		1	} 888	5,02
Electricity and Gas	6,881	981	3,128	25	49	٠	11,06
Railways, Tramways a Omnibuses Abattoirs Other	ind 213	₇₁	153 66	::	::	···	15 28 6
Total	9,569	1,140	4,920	25	49	888	16,59
Grand Total	15,669	4,228	7,889	1,137	1,535	1,365	31,82

⁽a) Includes advances for homes, £73,000.

Note.-For years to which particulars relate, see next table.

⁽iv) Loan Expenditure. The table below shows particulars for 1955-56 of loan expenditure on works connected with the ordinary services and the business undertakings of local government authorities.

The following table shows the loan expenditure on works connected with local government ordinary services and business undertakings during the years 1938-39 and 1951-52 to 1955-56:—

LOCAL GOVERNMENT AUTHORITIES: LOAN EXPENDITURE ON WORKS (£'000.)

Year e 30th J		N.S.W.(a)	Victoria.(b)	Q'land.	S. Aust.	W. Aust.(c)	Tas.	Total.
				Ordinary	Services.			
1939	••	1,758	663	1,317	43	117	39	3,937
1952 1953 1954 1955	::	4,256 4,660 4,121 4,313	1,701 1,797 1,747 2,511	4,412 2,898 2,969	512 410 785 959	693 715 839	468 351 237 404	12,042 10,831 10,698
1956	<u>::</u>	6,100	3,088	(d) (d)	1,112	1,121 1,486	477	(d) (d)
			В	usiness Un	DERTAKING	s.		
1939		1,481	452	942	10	76	233	3,194
1952		12,077	1,841	5,433	101	47	811	20,310
1953 1954	• •	10,496 10,436	1,772 1,408	5,437	115 62	44 78	732 642	18,596
1955	• •	9,037	1,282	4,920 (d)	45	90	800	17,546 (d)
1956	• • •	9,569	1,140	(d)	25	49	888	(d)

(a) Years ended previous 31st December. (b) Years ended 30th September. (c) Municipalities—Years ended 31st October; Road Districts—Years ended 30th June. (d) Not available.

§ 3. Local and Semi-Governmental Authorities' Debt.

- 1. General.—Statistics of local and semi-governmental debt for the years 1938-39 and 1953-54 to 1956-57 are given in the following paragraph. The information covers all local government authorities and those semi-governmental authorities responsible for the provision of the following services:—
 - New South Wales. Water Supply, Sewerage and Drainage, Electricity Supply, Fire Brigades, and Banking. County Councils are included among these authorities.
 - Victoria. Water Supply and Sewerage, Irrigation and Drainage, Harbours, Tramways, Electricity and Gas Supply, Fire Brigades, Marketing (Buying and Selling), Industry Assistance, Grain Elevators, Housing, and Miscellaneous.
 - Queensland. Water Supply and Sewerage, Irrigation and Drainage, Harbours, Electricity Supply, Fire Brigades, Universities, Hospitals and Ambulances, Marketing (Buying and Selling and Agency), and Industry Assistance.
 - South Australia. Irrigation and Drainage, Tramways, Electricity Supply, Fire Brigades, Hospitals and Ambulances, Marketing (Agency), Industry Assistance, Banking, Housing, and Miscellaneous.
 - Western Australia. Water Supply and Sewerage, Irrigation and Drainage, Harbours, Tramways, Electricity Supply, Fire Brigades, Hospitals and Ambulances, Marketing (Agency), and Housing.
 - Tasmania. Harbours, Electricity Supply, Fire Brigades, Transport, and Housing.

A detailed list of the authorities included is shown in Finance, Part I.—Public and Private Finance, Bulletin No. 49, 1957-58.

2. Local and Semi-Governmental Authorities' Debt.—The following table provides a summary of new money loan raisings, provisions for debt redemption, debt outstanding and interest payable by local and semi-governmental authorities for the year ended 30th June, 1957. For greater detail see Finance, Part I.—Public and Private Finance, Bulletin No. 49, 1957-58.

LOCAL AND SEMI-GOVERNMENTAL AUTHORITIES: NEW MONEY LOAN RAISINGS, REDEMPTION, DEBT AND INTEREST PAYABLE 1956-57.

		(£'	000.)				
Particulars.	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	Total.
	LOCAL	GOVERNA	ENT AUT	HORITIES.			
New Money Loan Raisings— From Government	191	96	1,058	258		21	1,624
From Public Total	9,918 10,109	4,524	7,244 8,302	803 1,061	1,423	1,134 1,155	25,046 26,670
Funds Provided for Redemp- tion-							
Government Loans Loans due to Public	71 4,211	9 1,567	1,097 2,258	371 266	11 568	10 352	1,569 9,222
Total	4,282	1,576	3,355	637	579	362	10,791
Accumulated Sinking Fund Balance	5,601	2,725	4,324		45	170	12,865
Due to Government Due to Banks (Net Over-	1,845	505	13,844	1,166	260	133	17,753
Due to Public Creditor(a)	185 68,787	447 29,393	66,159	3,159	6,985	8,351	637 182,834
Total(a)	70,817	30,345	80,003	4,325	7,250	8,484	201,224
Maturing Overseas(a)(b)	1,812		2,537				4,349
Annual Interest Payable(a)	(c)	1,354	3,436	(c)	333	378	(c)
SEMI-GO	VERNMEN	TAL AND	OTHER PO	UBLIC AU	THORITIES.		
New Money Loan Raisings— From Government From Public	11,849 15,248	15,593 34,510	660 7,393	10,898 2,351	5,630 2,373	7,014 902	51,644 62,777
Total	27,097	50,103	8,053	13,249	8,003	7,916	114,421
Funds Provided for Redemp- tion— Government Loans Loans due to Public	775 4,420	1,086 2,207	274 3,412	957 10	414 182	472 265	3,978 10,496
Total	5,195	3,\293	3,686	967	596	737	14,474
Accumulated Sinking Fund Balance	18,206	8,353	1,516	952	322	353	29,702
Debt— Due to Government Due to Banks (Net Over-	133,096	161,593	7,636	91,660	33,256	65,688	492,929
draft) Due to Public Creditor(a)	2,800 199,391	2,952 322,952	584 53,039	22,651	13,512	12,199	6,402 623,744
Total(a)	335,287	487,497	61,259	114,333	46,812	77,887	1,123,075
Maturing Overseas(a)(b)	7,000	4,345		767			12,112
Annual Interest Payable(a)	(c)	19,528	2,736	4,572	2,117	3,048	(c)

(a) Includes debt or interest payable in London and New York. The former is expressed in United Kingdom currency, the latter is payable in dollars which have been converted at the rate of 4.8665 dollars to £1. (b) Included in debt figures above. (c) Not available.

In this and the following tables, debt includes all liabilities for which arrangements have been made for repayment over a period of one year or more, and net overdrafts. Interest capitalized and amounts due for the capital cost of assets or for services rendered which are to be repaid over a period of one year or more are included. Current liabilities, such as interest accrued (but not capitalized), trade creditors, amounts held in trust and other debts which are to be repaid in less than one year are not included. Net overdraft is the gross overdraft of all funds less all bank credit balances (including fixed deposits) which do not form part of a sinking fund to repay a loan. New loans raised during the year include new loan liabilities incurred during the year, loans raised to repay indebtedness to the Government, and interest capitalized. Loans raised and redeemed within the year, increases in overdrafts and loans raised for conversion or redemption of existing debt are

excluded. Funds provided for redemption include instalments of principal repaid and amounts credited to sinking funds established for the purpose of repaying the debt on maturity. Amounts provided for redemption from loans raised for that purpose are excluded.

In the following table, a summary is given of new money loan raisings, provisions for the redemption of debt and debt outstanding of local and semi-governmental authorities for the years 1938-39 and 1953-54 to 1956-57.

LOCAL AND SEMI-GOVERNMENTAL AUTHORITIES, AUSTRALIA: NEW MONEY LOAN RAISINGS, REDEMPTION AND DEBT. (£'000.)

Particulars.		1938-39.	1953-54.	1954-55.	1955-56.	1956-57.
Local Go	VERI	NMENT AU	THORITIES	•		
New Money Loan Raisings-						
From Government		371		3,413	2,233	1,62
From Public		7,060	23,723	24,352	22,160	25,04
Total		7,431	26,724	27,765	24,393	26,67
Funds provided for Redemption-				i		
Government Loans		2,141	1,332	1,477	1,555	1,56
Loans due to Public		2,995	6,855	8,151	8,597	9,22
Total		5,136	8,187	9,628	10.152	10,79
Accumulated Sinking Fund Balance		(a)	10,352	11,493	11,955	12,86
Debt-			-	·		
Due to Government		13,207	15,290	17,265	17,907	17,75
Due to Banks (Net Overdraft)		1,544	795	362	948	
Due to Public Creditor(b)		76,582	140,847	158,350	169,891	182,83
Total(b)		91,333	156,932	175,977	188,746	201,22
Maturing Overseas(b)(c)	••	17,893	3,914	4,499	4,431	4,34
Semi-Governmental	AND	OTHER I	Ривыс А	THORITIES	s.	
New Money Loan Raisings-						
From Government		1,524	66,363	51,234	53,482	51,64
From Public		7,038	64,840	64,555	58,674	62,77
Total		8,562	131,203	115,789	112,156	114,42
Funds provided for Redemption—						
Government Loans		699	2,738	3,328	6,866	3,97
Loans due to Public		1,146	11,028	5,984	7,552	10,49
Total		1,845	13,766	9,312	14,418	14,47
Accumulated Sinking Fund Balance	· .	(a)	19,604	22,306	25,311	29.70
Debt						
Due to Government		(d)44,817	352,526	401,080	446,112	492,92
Due to Banks (Net Overdraft)		2,006		2,195	9,994	6,40
Due to Public Creditor(b)		118,506		503,515	560,074	623,74
			ا ا			

⁽a) Not available. (b) Includes debt in London and New York. The former is expressed in United Kingdom currency, the latter is payable in dollars which have been converted at the rate of 4.8665 dollars to £1. (c) Included in debt figures above. (d) Approximate only.

d165,329

12,088

793,128

13,176

13,616

906,790 1,016,180 1,123,075

13,556

12,112

Total(b)

Maturing Overseas(b)(c)

§ 4. Roads and Bridges.

1. Commonwealth Government Grants.—The following table shows the allocation to the States, under the several Commonwealth Aid Roads Acts for road construction, maintenance, repair and other works connected with transport for each of the years 1938-39 and 1953-54 to 1957-58, and to the Commonwealth for expenditure on the construction and maintenance of strategic roads and for the promotion of road safety practices for each of the years 1953-54 to 1957-58. See also Chapter XXI.—Public Finance, and Finance bulletins.

ROAD	CONSTRUCTION,	MAINTENANCE,	ETC.:	GRANTS	UNDER	THE
	CON	MONWEALTH A	ID ROAL	OS ACTS.		
		(£'000.	.)			

	ended lune—	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	C'wealth.	Total.
1939		1,199	747	815	474	819	213		4,267
1954		4,641	2,863	3,160	1,810	3,160	823	600	(b)22,057
1955		5,893	3,771	4,125	2,409	4,190	1,073	900	22,361
1956		7,282	4,660	5,097	2,976	5,178	1,326	950	27,469
1957		8,587	5,495	6,009	3,509	6,105	1,563	950	32,218
1958		9,495	6,264	6,585	3,879	6,658	1,733	1,000	35,614

⁽a) Allocation for expenditure on the construction and maintenance of strategic roads and the promotion of road safety practices. (b) Includes £5,000,000 paid into the Commonwealth Aid Roads (Supplementary) Trust Account to be expended on grants to the States for roads purposes in subsequent years.

2. New South Wales.—(i) General. A central road authority, known as the Main Roads Board, was created by legislation in 1925 for the purpose of providing improved and uniform standards of construction, reconstruction and maintenance of the principal roads of the State and to administer government subsidies for works on those roads. Subsequently, the Main Roads administration was reorganized as a separate department under the control of a Commissioner. The activities of the Department of Main Roads embrace works on main and developmental roads throughout the State, all roads in the unincorporated portion of the Western Division, and certain associated works, principally bridges and vehicular ferries, constructed from government funds. The Department of Main Roads co-operates with the municipal and shire councils in the work of constructing and maintaining the main roads system.

Public roads, except those within the City of Sydney, may be proclaimed as main roads on the recommendation of the Commissioner for Main Roads, who takes into consideration the representations made by the councils concerned, availability of funds for construction and maintenance purposes, and the value of the roads as connecting links between centres of population or business. The classes of main roads are (i) the State Highways which form the principal avenues of road communication throughout the State and connect with similar avenues in other States; (ii) Trunk Roads, which, with the State Highways, form the framework of a general system of intercommunication throughout the State; (iii) Ordinary Main Roads, which provide a network of roads connecting towns and important centres of population with the State Highways and Trunk Roads and with each other. In addition to the Main Roads, there are also (i) Secondary Roads (in the County of Cumberland) which carry a substantial volume of through traffic and, thereby relieve neighbouring main roads of traffic, and (ii) Developmental Roads which help to develop country districts.

In the County of Cumberland, which for the purposes of the Main Roads Act is deemed to include the City of Blue Mountains and small sections of other councils' areas on the boundary of the County of Cumberland, the full cost of road and bridge construction is paid from the funds of the Department of Main Roads. The Councils contribute towards the cost at the rate of \(\frac{1}{2} \)d. in the \(\po \) on the unimproved value of ratable property. The rate payable in respect of lands used principally for primary production is one-half the rate levied on other lands. In country districts, the Department meets the full cost of road and bridge works on state highways, the full cost of bridge works and three-quarters of the cost of road works on trunk roads, and three-quarters of the cost of bridge works and two-thirds of the cost of road works on main roads. The cost of constructing developmental roads and works is borne in full by the Department of Main Roads, but local Councils are required to maintain them in a satisfactory condition. The Department of Main Roads meets half the cost of works on secondary roads.

(ii) Length of Roads. (a) Proclaimed Roads. The following table shows lengths of proclaimed roads at 30th June, 1958, according to class of road:—

PROCLAIMED ROADS, NEW SOUTH WALES: LENGTHS, 30th JUNE, 1958. (Miles.)

Division.		Main	Roads.		Davidos	I	
	State High- ways,	Trunk Roads.	Ordinary Main Roads.	Total.	Secon- dary Roads.	Develop- mental Roads.	Total.
Eastern and Central Western	5,196 1,312	2,878 1,302	9,690 2,066	17,764 4,680	(a) 82	2,698	20,544 4,680
Total	6,508	4,180	11,756	22,444	82	2,698	25,224

During 1957-58, 93 miles of new development roads were proclaimed and 72 miles were removed from the list of proclaimed roads. Only one mile of new main road was proclaimed during the year and 32 miles were removed from the list.

The length of main and secondary roads maintained by the Department of Main Roads at 30th June, 1958 (excluding the Western Division) was 3,074 miles (17 per cent.), while the length maintained by councils was 14,772 miles (83 per cent.). The proportions of the several classes of main roads maintained by the Department and councils respectively were:—State highways, 47 per cent., 53 per cent.; trunk roads, 2 per cent., 98 per cent.; ordinary main roads, 6 per cent., 94 per cent. Secondary roads were wholly maintained by councils. In the County of Cumberland (the metropolis and adjoining areas), the Department maintained 56 per cent. of the roads (525 miles).

(b) Composition of Roads. In 1957, the total length of all roads in New South Wales was estimated at 127,097 miles, including 4,929 miles in the unincorporated area of the Western Division. The lengths of roads, according to their composition or nature, were as follows:—cement concrete, 412 miles; asphaltic concrete, 223 miles; tar or bituminous macadam, 5,698 miles; surface water-bound macadam, 7,949 miles; water-bound macadam, 1,458 miles; gravel or crushed rock, 42,522 miles; formed only, 27,604 miles; cleared or natural surface only, 41,231 miles.

(iii) Main Roads Department. (a) General. Progress has continued with the implementation of the Main Roads Department plan for main road development in the metropolis and the balance of the County of Cumberland. The plan has been incorporated in the County of Cumberland Planning Scheme approved by Parliament under the Local Government (Amendment) Act 1951. Detailed planning of the Newcastle and District Arterial Roads System is well advanced and some sections of the system have already been constructed. Surveys and designs have been advanced in the planned Wollongong-Port Kembla District Main Roads System.

In addition to its construction and maintenance work on roads, the Main Roads Department is engaged on a scheme for widening metropolitan roads. The acquisition of land required to implement approved schemes is proceeding.

During 1957-58, 64 new bridges were constructed. In addition, 25 concrete box culverts having a waterway width of 20 feet or more were completed. Major bridge works under construction include steel and/or concrete bridges over Double Creek on the Prince's Highway (length 450 feet); over the Murray River at Albury on the Hume Highway (length 300 feet); over the Mackay River at Kempsey on the Pacific Highway (length 917 feet); over the Mehi River at Moree on the Gwydir Highway (length 374 feet); over the Richmond River at Casino on State Highway No. 16 (length 482 feet); over the Wollamba River between Forster and Tuncurry (length 2,074 feet) and over the Castlereagh River at Mendooran (length 313 feet).

(b) Receipts and Payments. The funds of the Department of Main Roads are derived principally from taxation of motor vehicles, contributions by the Commonwealth Government under the Commonwealth Aid Roads Acts (see Chapter XXI.—Public Finance, for some particulars of the basis and distribution of grants under these Acts and para. 1 of this section for particulars of the amounts allocated in recent years), contributions by municipal and shire councils, and special (not statutory) assistance by the State Government by way of loan moneys or special grants from revenue funds. Receipts and payments for the four years 1954-55 to 1957-58 compared with the income and expenditure for 1938-39 are shown below.

DEPARTMENT OF MAIN ROADS, NEW SOUTH WALES: RECEIPTS AND PAYMENTS.

	(2.)				
Item.	1938-39.	1954-55.	1955–56.	1956–57.	1957–58.
	RECEIPT	rs.			
Motor Vehicle Taxation, Registration	1			1	<u> </u>
and Licence Fees	2,018,556	7,279,705	7,675,281	7,944,583	8,444,589
Commonwealth Aid Roads and					
Works Act	1,176,039	4,132,187	4,646,788	5,165,020	6,568,726
State (Consolidated Revenue) Grants	1 !				400,000
Contributions by Other Departments					
and Bodies	13,549	375,313			
Councils' Contributions	250,679	707,230	878,621	971,198	1,119,731
Loans					
From State Consolidated Revenue				298,072	
From State Loan Fund	302,643	200,000	150,000	150,000	
Other	54,782	48,018	56,827	58,848	90,426
Total	3,816,248	12,742,453	13,820,637	14,863,174	17,120,375

DEPARTMENT OF MAIN ROADS, NEW SOUTH WALES: RECEIPTS AND PAYMENTS—continued.

(£.)

Item.		1938-39, (a)	1954–55.	1955–56.	1956–57.	1957-58.
		PAYMEN	TS.			
Roads and Bridges-		 	i			
Construction		 1,736,898	6,896,403	7,157,110	7,813,332	9,361,017
Maintenance		 1,519,929				6,096,227
Debt Charges-				* * *	1 1	, ,
Interest, Exchange, e	tc.	 152,469	140,233	151,652	171,242	184,067
Debt Redemption		 200,591	33,735	36,299	38,677	39,966
Purchase of Assets(b)		 l '	81.584	260,551	168,766	280,664
Suspense Accounts(c)		 	-326,317	-156,924	-217,258	-66,418
Administration, etc.		 100,583	458,428	515,715	562,056	614,098
Other		 914	36,495	60,057		229,225
Total		 3,711,384	12,867,535			16,738,846

(a) Income and expenditure. (b) Excludes plant and motor vehicles. (c) Includes purchase and operation of Department's Plant and Vehicles not included elsewhere.

Note.—Minus sign (-) indicates excess of receipts over payments.

The figures shown above represent the aggregate receipts and payments of five funds—the County of Cumberland Main Roads General and Special Purposes Funds, the Country Main Roads General and Special Purposes Funds, and the Developmental Roads Fund.

The total expenditure on roads, streets and bridges in the State by all authorities during the years 1938-39 and 1952-53 to 1956-57 was, respectively, £8,891,000, £20,004,000, £22,510,000, £26,878,000, £29,595,000 and £33,249,000. These figures are approximate and they include expenditure on construction, maintenance and direct administration, but not on debt charges. Expenditure on the Sydney Harbour Bridge is not included.

- (c) Sydney Harbour Bridge. The Sydney Harbour Bridge was opened for traffic on 19th March, 1932. The main span is 1,650 feet and the clearance for shipping 170 feet from high water level. The deck, 160 feet wide, carries a roadway and two railway tracks and there is also a footway on each side. The capital cost of the bridge to the 30th June, 1958, was £9,578,006, but this amount will be reduced slightly on completion of the disposal of the remaining surplus resumed property. The portion met from repayable loan funds, over £7,900,000, is repayable from toll income. The accumulated balance of the Bridge Account at 30th June, 1958, showed a surplus of £213,265, after the transfer of sums totalling £2,155,000 to a reserve account. Annual income, after a decline to less than £300,000 during the 1939-45 War, has risen from about £400,000 in 1938-39 to over £1,021,000 in 1957-58, while expenditure over the same period has varied between £424,000 and £778,000. In 1957-58, income included road tolls, £836,897, railway passenger tolls, £139,908, and tram and omnibus passenger tolls, £17,641. Expenditure amounted to £778,142, including interest, exchange, flotation expenses, etc., £301,619, sinking fund, £101,968, maintenance £150,055, and major improvements (including conversion of tram tracks to roadways), £119,578. During 1957-58, 24,205,000 rail travellers, 16,498,000 tram and omnibus travellers, and 37,346,000 road travellers in 23,071,000 road vehicles crossed the bridge, contributing, respectively, 14 per cent., 2 per cent. and 84 per cent. of the total toll revenue.
- 3. Victoria.—(i) General. With the object of improving the main roads of the State, the Country Roads Board was established by legislation passed in 1912. The principal duties of the Board are to determine the main roads, State highways, tourists' roads, etc., to inquire into the State's resources in road materials and the most effective methods of road construction and maintenance, and to recommend deviations in existing roads or the construction of new roads in order to facilitate communication or to improve the conditions of traffic.
- (ii) Length of Roads. (a) Declared Roads. The total length of declared roads in Victoria at 30th June, 1958, was 14,392 miles, classified as follows:—State highways, 3,845 miles; main roads, 9,754 miles; tourist roads, 415 miles; forest roads, 378 miles. The total length of the surface treated (black) or higher type of pavements included in the foregoing totals was 9,294 miles or 64 per cent.
- (b) Composition of Roads. It is estimated that, in addition to the 14,392 miles of classified roads as above, there were approximately 86,000 miles of unclassified roads at 30th June, 1958. The latest detailed estimate of the length of roads and streets in Victoria

(as at 30th September, 1954) provides the following information:—Wood or stone, 61 miles; portland cement concrete, 135 miles; asphaltic concrete and sheet asphalt, 233 miles; tar or bitumen surface seal, 12,197 miles; water-bound macadam, gravel, sand and hard loam pavements, 31,766 miles; formed only, 25,040 miles; not formed, 30,531 miles; total, 99,963 miles.

(iii) Country Roads Board. (a) General. During 1956-57, 1,301 miles, and in 1957-58, 1,733 miles, of declared roads under the Board's control were treated with bitumen. In addition, in 1956-57, 291 miles, and in 1957-58, 534 miles of undeclared roads, for which the Board contributed funds, were similarly treated. The total length of bitumen treatment carried out in 1956-57 was 1.712 miles and in 1957-58 2,353 miles. Of the work on the roads under the Board's control, 537 miles in 1956-57 and 626 miles in 1957-58 related to State Highways.

During 1956-57, 193 bridge projects with the total value of £1,721,130 and in 1957-58 234 bridge projects with a total value of £1,894,000 were initiated.

Of these, 152 of a total value of £610,430, and 165 costing £623,000 were under municipal supervision in 1956-57 and 1957-58 respectively.

(b) Receipts and Payments. The funds of the Country Roads Board are derived principally from motor registration fees, two thirds of all money received by way of owners' certificates, one half of drivers' licence fees, fines, payments by the Commonwealth Government under the Commonwealth Aid Roads Acts, road charges under the Commercial Goods Vehicles Act and repayments by municipalities. In addition, loans have been authorized from time to time under the Country Roads Acts for permanent works on main and developmental roads, State highways, tourists' and forest roads, while the State Government has provided, free of repayment, loan moneys for restoration of flood and bush fire damage. During the year ended 30th June, 1958, loan receipts and payments each amounted to £402,822, and expenditure included £460,452 for restoration of flood and bush fire damage. The total loan expenditure to 30th June, 1958, was £12,933,309. This figure does not include loan expenditure from the Developmental Roads Loan Account, a fund which was created for the purpose of constructing and maintaining subsidiary or developmental roads. Loan money raised on this account was exhausted at 30th June, 1937, the total expenditure at that date being £6,425,758.

Total receipts and payments during each of the years 1938-39 and 1954-55 to 1957-58 are shown below:—

COUNTRY ROADS BOARD, VICTORIA: RECEIPTS AND PAYMENTS.

(£.)

1030 20 1051 55 1055 56 1056 57 1057 59

Item.	1938-39. (a)	1954–55.	1955–56.	1956–57.	1957–58.
	RECEIPT	rs.			
Motor Vehicle Registration Fees	1.690.962	4 647 372	4,984,855	6,211,564	8,013,268
Drivers' Licence Fees(b)	1,050,502	181.728		, ,	
Municipalities' Payments	318,878		,	_ ,	. ,
Commonwealth Aid Roads Acts(c)		3,802,369		5,247,438	6,158,907
Loans from State Government		1,102,309			
Surplus Transport Regulation Fund		387,992	.,		
Advance from Public Account			500,000		
Stores and Materials	233,104				
Hire of Plant	53.534				
Commonwealth-State Contribution					
for restoration of flood damage				236,641	460,452
Road Charges—Commercial Goods					
Vehicles Act	٠		215,789	1,314,784	1,529,236
Other	117,341	1,309	24,809	28,173	37,114
Total	3,188,000	10,510,640	11,949,940	14,181,589	17,381,233

COUNTRY ROADS BOARD, VICTORIA: RECEIPTS AND PAYMENTS—continued.

(£.)

		(4.)							
Item.	1938–39. (a)	1954–55.	1955-56.	1956-57.	1957–58.				
Payments.									
Construction and Maintenance	e of	1							
Roads and Bridges-									
State Highways		453,708	3,033,653	3,495,182	4,079,366	4,988,708			
Main Roads		1,027,210	3,566,478	3,889,291	3,921,041	5,428,679			
Tourist Roads		77,694	294,590	342,839	285,127	457,735			
Forest Roads			139,119	144,684	116,388	127,775			
Unclassified Roads		468,122	1,445,032	1,947,134	2,508,782	3,615,378			
Roads adjoining Commonwe	ealth								
Properties		13,321							
Other		(d) 58,729	30,181	50,484	72,895	107,469			
Relief to Municipalities		240,170							
Plant, Stores and Materials		310,332	584,826	627,011	620,626	1,053,254			
Interest, Debt Redemption, etc.	• •	427,445	676,012	745,873	792,321	831,077			
Repayment of Advance					500,000				
Administration Expenditure	and	!							
Other	• •	230,125	621,478	789,374	958,719	969,540			
Total	••	3,306,856	10,391,369	12,031,872	13,855,265	17,579,615			

- (a) Figures for 1938-39 are not directly comparable with those of succeeding years owing to a change in the method of compilation adopted by the Country Roads Board. (b) Prior to 1st July, 1949, drivers' licence fees were paid into Consolidated Revenue Fund. From that date until 31st December, 1950, the fees were credited to the funds of the Country Roads Board. Since then, one half of the fees has been credited to the funds of the Country Roads Board while the remaining half has been credited to the Municipalities Assistance Fund. (c) Excludes portion of Commonwealth Aid Roads Acts advances drawn by the Public Works Department for expenditure on wharfs, jetties, etc. (d) Includes £54,662 expenditure on unemployment relief works.
- (iv) Level Crossings. In 1954-55, the Level Crossings Fund was created under the Country Roads and Level Crossings Funds' Act 1954 to finance (a) the elimination of level crossings or the provision of alternative routes to enable road traffic to avoid level crossings, (b) the provision of lights, signs, and lighting at and the improvement of approaches to level crossings and (c) generally, the reduction of danger at level crossings. The Act provides for the payment into the Fund of one third of all moneys received by way of owners' certificates and money provided under any other Act. The amount available for expenditure in 1957-58 was £728,154 comprising receipts from owners' certificates, £255,997, and the balance brought forward from 1956-57, £472,157. Expenditure from the Fund amounted to £319,088 of which £196,481 was incurred by the Railways Department and the balance by the Country Roads Board.
- 4. Queensland.—(i) General. Under the Main Roads Act 1920, a Main Roads Board was constituted, consisting of three members appointed by the Governor-in-Council. In 1925, the Board was abolished and its powers conferred upon a single Commissioner. The Main Roads Commission was constituted a Department under the name of the Department of Main Roads in February, 1951, with the Commissioner of Main Roads as its permanent head. The duties of the Commissioner are to carry out surveys and investigations necessary to determine State highways, main, developmental, secondary, mining access, farmers' and tourist roads and tourist tracks, and the responsibility for building and maintaining these declared roads is largely that of the Commissioner. Roads of purely local importance are constructed and maintained by local authorities. In many cases, construction is financed by the State Government by means of Treasury loans. Other roads may be built by the Public Estate Improvement Branch of the Lands Department in order to open up areas of previously inaccessible or undeveloped country.
- (ii) Length of Roads. (a) Declared Roads. The total length of declared roads in Queensland at 30th June, 1957, was 20,975 miles, comprising State highways, 8,246 miles; main roads, 10,636 miles; developmental roads, 235 miles; secondary roads, 646 miles; mining access roads, 606 miles; farmers' roads, 308 miles; tourist roads, 297 miles; tourist tracks, one mile. The length of roads improved in Queensland from the date of commencement of work under the Main Roads Acts 1920–1952 to 30th June, 1957, was 13,911 miles (66 per cent.). At that date also, 836 miles of new road construction and 504 miles of stage construction work were proceeding.
- (b) Composition of Roads. The total length of roads and streets in Queensland at 30th June, 1957, was:—Concrete or other high standard, 208 miles; paved-sealed, 6,921 miles; paved unsealed, 17,465 miles; formed only, 35,015 miles; cleared only, 13,298 miles; natural state, 47,950 miles; total, 120,857 miles.

- (iii) Department of Main Roads. (a) General. During 1956-57, the Department completed 1,489 miles of roads including new construction and stage construction. Bridges of all types to a length of 5,984 linear feet were constructed, bringing the total constructed by the Department at 30th June, 1957, to 190,034 feet. In addition, at 30th June, 1957, 5,945 feet were under construction.
- (b) Receipts and Payments. The funds of the Department of Main Roads are obtained chiefly from motor vehicle registration and collections, fees, etc., under the Transport Acts, contributions under the Commonwealth Aid Roads Acts and loans, grants and advances from the State Government. The total receipts and payments, including amounts for defence works, during each of the years 1938-39 and 1953-54 to 1956-57 are shown below:

DEPARTMENT OF MAIN ROADS, QUEENSLAND: RECEIPTS AND PAYMENTS.

	(£.)				
Item.	1938–39.	1953–54.	1954-55.	1955–56.	1956–57.
	RECEIF	TS.			
Motor Vehicle Registration, Trans-	1				
port Acts Collections, Fees, etc	938,227	3,766,460	4,075,193	4,342,483	4,608,80
Loans from State Government	392,225	100,000		380,000	·
Grants, Advances, Refunds, etc.				•	
from State Government	579,775	349,315			
Commonwealth Aid Roads and					
Works Acts	806,218	3,454,665	4,414,226	5,135,202	6,012,899
Maintenance Repayments-Local	1				
Authorities	98,154	311,212	368,711	406,998	590,883
Hire, Rent, Sales of Plant, etc	288,330	∫ 91,875		765,687	
Other	200,330	\ 400,676	329,549	415,931	405,55
Total	3,102,929	8,474,203	9,802,759	11,446,301	12,500,462
	PAYME	NTS.			<u>'</u>
-	[1		1
Permanent Road Works and Surveys	2,045,900		6,091,811		7,953,553
Maintenance of Roads	331,734	1,603,418	2,077,429	2,521,193	2,372,22
Plant, Machinery, Buildings, etc.	1				
(including Plant Maintenance)	73,632		1,390,728		
Loans-Interest	38,861				
Redemption	78,153	250,156	250,817	255,224	256,048
Payments to State Consolidated	1				
Revenue	340,244	• •		••	•.•
Payments to Local Authorities	27,418			1,625	
Administration, etc	151,700	699,428	803,671	905,599	1,021,017
Total	3,087,642	7,587,409	10,881,160	11,351,363	13,134,61

- 5. South Australia.—(i) General. The Highways and Local Government Department is administered by the Commissioner of Highways, who is empowered, subject to the approval of the Minister of Roads, to undertake the construction, maintenance and protection of the principal roads of the State. In addition, the Commissioner—
 - (a) allocates grants to councils for roadworks and supervises the expenditure.
 - (b) assists Councils to purchase road-making plant and to defray the cost of roadworks.
 - (c) advises Councils on any question concerning the construction, maintenance or repair of roads.
 - (ii) Source of Funds. Funds of the Department are derived mainly from-
 - (a) State Government. The Highways Fund, into which are paid the proceeds from motor vehicle registrations and drivers' licences (less cost of collection), appropriations from loan funds, repayments of advances made to Councils and contributions by the Municipal Tramways Trust.
 - (b) Commonwealth Government. Contributions under the Commonwealth Aid Roads Acts.

- (iii) Length of Roads. In South Australia, there are only two classifications of roads. These are Main Roads proclaimed under the provisions of the Highways Act and all other roads, commonly designated District Roads. At 30th June, 1958, there were 8,188 miles of proclaimed Main Roads and 54,012 miles of District Roads, totalling 62,200 miles. Of these, 28,980 miles are unformed and carry little or no traffic and a further 15,504 miles, which have been formed only, are open to traffic during most of the year. Of the remainder, there are 12,962 miles of road constructed with gravel or crushed rock and 4,754 miles of a higher standard constructed with either bitumen or concrete.
- (iv) State Highways and Local Government Department, Receipts and Payments. The following table shows particulars of receipts and payments, during the years 1938-39 and 1953-54 to 1956-57, of funds controlled by the Highways and Local Government Department.

HIGHWAYS AND LOCAL GOVERNMENT DEPARTMENT, SOUTH AUSTRALIA: RECEIPTS AND PAYMENTS.

(£.)										
Item.	1938–39. (a)	1953–54.	1954–55.	1955–56.	1956–57.					
Receipts.										
Motor Vehicle Registration, Licences, Fees, Fines, etc. Commonwealth Aid Roads and Works Acts Loans from State Government Recoups—Local and Semi-governmental Authorities Other	479,922 200,000	2,230,045 1,873,227 { 10,443 263,456	2,555,471 200,000	2,958,943 100,000	3,481,627 10,000					
Total	1,372,302	4,377,171	6,111,584	6,679,365	7,312,611					
	Payments.									
Construction and Reconstruction of Roads and Bridges Maintenance Recoups to Consolidated Revenue Fund—Interest, Debt Redemp-	<i>b</i> 1,150,082	2142728 918,582	2,877,748 825,371	3,658,078 1,562,515	3,569,676 1,856,560					
tion and Exchange Grants and Advances to Local and	c 178,273			•	-					
Semi-governmental Authorities Administration Stores, Plant, Machinery, Suspense	(d)	1,343,381 267,042								
Accounts, etc Other	45,753	161,562 36,644		424,206 50,790	1,049,861 -38,649					
Total	1,374,108	5,027,688	6,146,833	6,751,756	7,347,886					

(a) Figures for 1938-39 are not completely comparable with those for following years. (b) Roads, plant, etc. (c) Interest and sinking fund payments. (d) Not available separately; included elsewhere.

The total expenditure, both revenue and loan, by State and local governments on roads, streets and bridges in South Australia during the years 1938-39 and 1953-54 to 1956-57 was, respectively, £1,966,000, £6,131,000, £7,539,000, £8,812,000 and £9,228,000.

6. Western Australia.—(i) General. Roads in Western Australia comprise two main categories, those declared as "main", "developmental" or "controlled-access" roads under the provisions of the Main Roads Act, 1930–1955, and all other roads.

Declared roads come under the control of the Commissioner of Main Roads, while all other roads remain the responsibility of the several Municipalities and District Road Boards throughout the State. While the construction and maintenance of "main" roads and the construction of "developmental" roads are the responsibility of the Commissioner of Main Roads, "developmental" roads must be maintained by the Municipalities or Road Boards in whose districts such roads are situated.

(ii) Length of Roads and Streets. The total length of roads and streets in Western Australia at 30th June, 1957, was made up as follows:—Bituminous, 6,487 miles; gravel water bound, 15,519 miles; other constructed surfaces, 1,421 miles; formed only, 39,042 miles; unprepared, 26,216 miles (incomplete); total, 88,685 miles.

The lengths of declared roads at 30th June, 1957, included in the preceding figures, were:—Main roads, 3,487 miles; important secondary roads, 6,929 miles; developmental roads, 13,702 miles; total, 24,118 miles.

- (iii) Main Roads Department. The Commissioner's duties relate to the determination of main roads after consideration of the funds available and the services to be rendered by the roads, the construction and maintenance of such main roads, the declaration and provision of developmental roads, and the carrying out of surveys, investigations and experiments connected with roads and road materials. The Act authorizes two trust accounts (Main Roads Trust Account and Main Roads Contribution Trust Account) to record the moneys prescribed as available to the Commissioner for expenditure associated with roads, etc. In addition, the Commissioner operates on other Trust Accounts which are used for funds made available under the Commonwealth Aid Roads Act. During the year 1956-57, the activities of the Department included:—Clearing, 1,796 miles; forming, 1,916 miles; gravelling, 1,398 miles; reconditioning, 4,651 miles; stabilizing, 255 miles; side drains, 81 miles. In addition, the length of tar and bitumen work completed was 1,387 miles. Construction of the 260 miles of the Wyndham-Ord River-Nicholson road was completed during the year. Bridges constructed numbered 31. On 12th March, 1957, the State Government accepted a tender for the construction of a bridge over the Swan River at the Narrows, Perth, the work to be completed by April, 1959. During 1956-57, the Department's Traffic Engineering Branch included in its activities special surveys and investigations in connexion with controlled access highways as proposed in the Stephenson-Hepburn Regional Plan; studies and design relating to the approaches to the Narrows Bridge; roadmarking and signposting taken over from the Police Traffic Branch; and other general traffic matters including surveys of metropolitan traffic volume, design and implementation of the Perth City Kerbside Parking Scheme and the preparation of plans for the installation of city and suburban traffic lights.
- (iv) Receipts and Payments—Combined Road Funds. The following table shows the combined transactions of the Main Roads Trust Account, the Main Roads Contributions Trust Account, the Metropolitan Traffic Trust Account, and the Commonwealth Aid Roads and Works Trust Accounts during the years ended 30th June, 1939 and 1954 to 1957.

ROAD FUNDS, WESTERN AUSTRALIA: RECEIPTS AND PAYMENTS.

(£.) 1938-39. Item. 1953-54. 1954-55. 1955-56. 1956-57. (a) RECEIPTS. Motor Vehicle Registration, Licences, Fees, Fines, etc. 218,962 523,495 584,454 636,464 801,235 Commonwealth Aid Roads and Works Acts .. 823.162 3,212,454 4,411,656 5,110,892 6,037,821 Recoups from Local Authorities, £ 199,591 273,886 etc... ٠. 233,285 154,661 1,958 Other . . 96,174 224,768 377,764 116,373 1,044,082 4,051,913 5,366,170 6,205,409 7,371,481 Total PAYMENTS. Construction and Reconstruction 2,947,597 of Roads and Bridges.. 2492320 4,497,015 5,154,419 922,756 214,217 255,181 309,276 292,492 Maintenance 404,221 Grants to Local Authorities, etc. . . 143,544 295,713 323,410 368,410 Transfer to State Consolidated 70,000 70,000 70,000 75,739 Interest, Debt Redemption and Exchange-State Consolidated Rev-7,396 7,396 enue 7.616 7.396 7,396 70,000 Administration 52,176 47,583 69,947 72,354 481,536 580,881 545,833 Plant, Machinery, etc. . . 276,686 . . Other . . 520,405 521,175 19,181 540,945 463,969 1,145,273 3,944,860 4,683,333 6,326,392 7,106,323 Total

⁽a) Figures not completely comparable with those for following years. Includes Transport Co-ordination Trust Account.

- 7. Tasmania.—(i) General. Under the Road Construction (Transfer of Functions) Act 1951, which came into operation on 1st July, 1951, the control of the construction and maintenance of roads and certain road making plant was vested in the Minister for Lands and Works. Works authorized by the Minister in respect of roads classified as State highways, tourists' and developmental roads are constructed by the Department of Public Works and financed from the State Highways Trust Fund into which are paid the proceeds from Commonwealth Aid Roads grants, motor vehicle registration fees and taxes, licence fees for drivers and public transport and other moneys made available by Parliament. In addition, provision was made under the Road Construction (Transfer of Functions) Act for certain works authorized by the Transport Commission to be carried out and constructed by the Department. The expenditure by the Public Works Department during 1956-57 on the construction of roads, tracks and bridges amounted to £3,148,157 of which £2,440,258 was charged to road funds, £20,329 to revenue, £665,204 to loan and £22,366 to other funds. Except in special cases, municipal councils bear the cost of maintaining country roads and a proportion of the cost of main and secondary roads.
- (ii) Length of Roads. (a) Classified Roads. The mileages of classified roads in Tasmania at 30th June, 1957, were as follows:—State highways, 1,161 miles; main roads, 653 miles; secondary roads, 186 miles; tourist roads, 46 miles; developmental roads, 10 miles; subsidized roads, 131 miles; total 2,187 miles. Country roads totalled more than 10,000 miles. The mileages of sealed roads, and their proportions to the respective totals, were:—State highways, 592 miles (50 per cent.); main roads, 242 miles (37 per cent.); secondary and other roads, 24 miles (6 per cent.); total, 858 miles (39 per cent. of all classified roads, and 7 per cent. of all roads, in Tasmania).
- (b) Composition of Roads. The length of all roads in Tasmania, including those with surfaces of lower grade, at 30th June, 1957, was as follows:—Bituminous, 1,187 miles; concrete, 22 miles; granite, limestone, etc., water-bound, 8,539 miles; surfaces of lower grade, 2,926 miles; total, 12,674 miles.
- (iii) Receipts and Payments—Combined Road Funds. The table hereunder shows particulars of the receipts and payments of the combined Road Funds for the years 1939-40 and 1953-54 to 1956-57:—

ROAD FUNDS, TASMANIA: RECEIPTS AND PAYMENTS.

(£.) 1939-40. 1953-54. 1954-55. 1955-56. Item. 1956-57. (a) RECEIPTS. Motor Vehicle Taxation and Regis-450,962 623,782 tration, Licences, Fees, Fines, etc. 193,165 523,138 840,724 Commonwealth Aid Roads and Works Acts .. 830,922 220,241 1,125,259 1,303,299 1,535,719 Recoups from Local Authorities, etc. 10,076 8,339 10,765 10,469 State Loan Fund 825,502 860,862 782,264 679,099 912,089 Hire of Plant 741,383 813,593 807,525 Other .. 719 115,064 167,414 171,205 31,046 ٠. . . Total 414,125 2,973,909 3,492,537 3,704,908 4,009,146 PAYMENTS. Construction and Reconstruction of 1,945,053 1.070,414 1,624,722 Roads and Bridges 130,924 1,562,003 113,199 977,403 1,041,981 1,079,893 1,150,714 Maintenance . . Jetties, etc. 22,467 . . ٠. Other works connected with Trans-10,480 11,558 7,105 9,823 port 5,748 Grants to Local Authorities, etc. 5,401 5,018 7,346 3,671 40,213 Administration . . 15,053 56,807 39,315 36,405 Purchase, Hire and Maintenance of 809,546 839,360 1,068,202 Plant (b)848,738 ٠. 31,894 -Other .. 22,558 93,332 70,535 57,312 319,285 2,905,106 3,600,867 3,671,682 4,272,137 Total

Note.—Minus sign (-) indicates an excess of credits.

⁽a) First year of operation of Transport Commission. Figures not completely comparable with those for following years. (b) Not available, included with other.

8. Summary of Roads used for General Traffic.—(i) Proclaimed or Declared Roads. The table hereunder is a summary of the roads proclaimed or declared under the Acts of the several States relative to the operations of the central road authorities, and shows the lengths of various classes proclaimed or declared as at 30th June, 1957. These proclaimed or declared roads are those for which the central road authority assumes responsibility under the Act for the whole, or a proportion, of the cost of construction and/or maintenance, the extent varying from State to State and with the class and locality of the roads. Before proclamation of a main road, consideration is given, in general, to the following points:availability of funds; whether the road is, or will be, within one of several classes of main trunk routes; whether the district is, or will be, sufficiently served by railways. Provision is also made in some States for the declaration of roads other than main roads. The absence of a particular class in any State does not necessarily imply that there are no roads within that State that might be so classified; the classes are restricted only to roads proclaimed or declared under the Acts. A further point to make is that, through various causes, e.g., insufficiency of funds, man-power or materials, etc., construction or maintenance may not keep pace with gazettals of mileages, and therefore the condition of a road may not match its status.

PROCLAIMED OR DECLARED ROADS: LENGTHS, 30th JUNE, 1958. (Miles.)

		(11311631)	<u> </u>				
d.	N.S.W.	Vic.	Q'land.	S Aust.	W. Aust.	Tas.	Total.
:: ::	6,508 4,180 11,756	3,845 } 9,754	8,246 10,636	8,188	3,487	1,161 } 653	} 68,414
	22,444	13,599	18,882	8,188	3,487	1,814	68,414
	82 2,698 .:	 415 (b) 378	646 235 298 (c) 914	::	6,929 13,702 	186 10 46 (d) 131	7,843 16,645 759 1,423
	2,780	793	2,093		20,631	373	26,670
	25,224	14,392	20,975	8,188	24,118	2,187	95,084
			d. N.S.W. Vic. 6,508 3,845 4,180 11,756 9,754 22,444 13,599 2,698 (b) 378 2,780 793	d. N.S.W. Vic. Q'land. (a) 6,508 3,845 8,246 11,756 9,754 10,636 22,444 13,599 18,882 2,698 646 235 298 (b) 378 (c) 914	d. N.S.W. Vic. Q'land. S Aust. 6,508 3,845 8,246 10,636 } 8,188 22,444 13,599 18,882 8,188 22,698 646 235 415 (b) 378 (c) 914 2,780 793 2,093	d. N.S.W. Vic. Q'land. S Aust. W. Aust. (a) 6,508	d. N.S.W. Vic. Q'land. S Aust. W. Aust. Tas. (a) 1 6,508

(a) As at 30th June, 1957. (b) Forest roads. farmers' roads, 311 miles; tourist tracks, 1 mile.

(c) Includes mining access roads, 606 miles; (d) Subsidized roads.

(ii) Composition of Roads. The following table represents an attempt to classify all the roads used for general traffic in Australia, at the latest dates available, according to States and Territories and to certain broad composition groups. The results are not entirely satisfactory, (i) because it is doubtful whether the whole of Australia is covered, (ii) because the dates of reference differ, and (iii) because the figures constituting each group are not wholly comparable for the States and Territories. It is hoped, however, that despite these defects the table will provide an approximate and general idea of the main types of roads in Australia.

The figures in the table for the States are obtained from the State Government Statisticians, and are derived mainly from local government sources. Unincorporated areas in some States are probably excluded and the figures on the returns supplied by the local government authorities are in some cases of doubtful accuracy. Details of the composition of roads, as far as they are available, vary to such an extent that it is considered preferable to show here only major divisions.

Groups 1-4 as shown in the table include, respectively, the following types of somposition:—

- 1. Wood or Stone. Wood blocks; stone paved.
- Concrete. Cement concrete; asphaltic concrete; bituminous concrete; sheet asphalt on concrete base.
- Bituminous. Tar or bituminous macadam; tar and bituminous surface seal; surfaced water-bound macadam or gravel; bituminous or cement penetration.

 Macadam and Other. Water-bound macadam; granite, limestone, and blastfurnace slag, water-bound; water-bound gravel; gravel or crushed rock; metalled (gravel or rubble); gravel, sand and hard loam pavements.

Groups 5 and 6 include roads so-called mainly because they are used for general traffic, irrespective of their surfaces, prepared or otherwise.

It will be noticed that some of the terms used above are practically synonymous. Such terms are, of course, not used by any one State, but are the classifications adopted by different States.

For details of any particular State, see the respective paragraphs in the preceding pages.

ALL ROADS USED FOR GENERAL TRAFFIC: LENGTHS. (Miles.)

Composition of	N.S.W.	Vic.	Q'land.	S. Aust.	W. Aust.	Tas.	N. Terr.	A.C.T.	T1
Road.	30th June, 1957.	30th Sept., 1954.	30th June, 1957.	30th June, 1953.	1957. (a)	30th June, 1957.	30th June, 1957.	30th June, 1957.	Total.
1. Wood or			1						
stone		61		6			• •		67
2. Concrete	635	368	208	605	21	22		3	1,841
3. Bituminous	15,105	12,197	6,921	2,914	6,487	1,187	1,293	201	46,305
4. Macadam	40.500			1.5000	4.5040	0.500	400		40444
and other	42,522	31,766	17,465	16,829	16,940	8,539	192	188	134,441
5. Formed only	27,604	25,040	35,015	12,956	39,042	1	8,542	197	[]
 Cleared, or natural sur- 						> 2,926	!₹		334,938
face, only	41,231	30,531	61,248	22,270	26,216	}	2,100	20	J
Total	127,097	99,963	120,857	55,580	88,685	12,674	12,127	609	517,592

⁽a) Municipalities, 31st October; Road Districts, 30th Jun.

9. Summary of Expenditure on Roads and Bridges.—(i) General. In most States, there are three classes of authorities—the State Government, the central road authority, and numerous local government bodies. Most of these authorities may expend money either directly on road construction or indirectly by means of grants and miscellaneous payments to other authorities. Insufficient information is given in the accounts of many authorities to permit the exclusion of these indirect payments which would, if included in the aggregate, duplicate the expenditure. In addition, a number of authorities are not able to supply separate information concerning their expenditure on roads. For these reasons, it has not been possible, up to the present, to compile statistics of the aggregate expenditure on roads.

The two paragraphs following therefore represent only: (a) aggregate expenditure from the various State road funds referred to in the foregoing pages, and (b) loan fund expenditure by State Governments. Expenditure by local government bodies is not included. Paragraph 8, Finances, of § 2. Local Government Authorities, contains some particulars of local government revenue and expenditure on roads, streets and bridges (see pages 690 and 693).

(ii) Aggregate Expenditure from State Road Funds. The following table shows expenditure on the construction and maintenance of roads, including payments to local government bodies, by each State during the years 1938-39 and 1952-53 to 1956-57, as summarized from the foregoing tables dealing with the receipts and payments of the various State road authorities. Expenditure on plant and materials, not charged to construction and maintenance of roads and bridges and expenditure on debt charges and payments to State consolidated revenues are not included. In some instances, expenditure on works other than roads and bridges is included. Because of differing accounting methods, figures are not completely comparable as between States, nor, in some States, as from year to year.

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ROADS AND BRIDGES: AGGREGATE EXPENDITURE FROM ROAD FUNDS.

	(£'000.)							
Year ended 30th June	N.S.W.(a)	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Total.	

Year en 30th Ju	N.S.W.(a)	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Total.
1939	 3,358	2,569	2,557	1,150	1,138	(b) 319	11,091
1953	 9,357	6,472	5,979	3,404	4,320	1,683	31,215
1954	 11,972	7,237	6,235	4,708	3,591	2,096	35,839
1955	 12,938	9,131	8,975	5,256	4,060	2,752	43,112
1956	 13,679	10,659	9,772	6,145	5,768	2,832	48,855
1957	 14,603	12,442	11,349	6,109	6,442	3,204	54,149

(a) Excludes Sydney Harbour Bridge.

(b) Year 1939-40.

The foregoing particulars do not represent the total expenditure on roads and bridges in each State. To obtain this information, additions must be made on account of (a) State Government expenditure from revenue and loan through Departments or authorities other than the central road authority and (b) local government expenditure from revenue and loan, while, on the other hand, allowances must be made for grants and miscellaneous payments to other authorities (see (i) above).

(iii) State Net Loan Expenditure. In recent years, expenditure from State loan funds on roads and bridges has not been large, and it would appear, also, that a considerable proportion passes through the funds of the central road authorities and is therefore included in the figures of their financial operations in the foregoing sections. Gross loan expenditure by all State Governments during 1956-57 amounted to less than £1,250,000, while net expenditure was about £400,000 less. Aggregate net loan expenditure on roads and bridges in each State to 30th June, 1957, amounted to the following approximate sums:—New South Wales, £22,000,000; Victoria, £21,000,000; Queensland, £10,000,000; South Australia, £5,000,000; Western Australia, £3,000,000; Tasmania, £10,000,000; total, £71,000,000.

§ 5. Water Supply, Sewerage and Drainage.

Note.—See also Chapter VIII.—Water Conservation and Irrigation.

- 1. New South Wales .- (i) General. The two largest domestic water supply and sewerage systems are controlled by statutory boards each consisting of a president and a vice-president appointed by the State Government and five members elected by local councils. These are (a) the Metropolitan Water, Sewerage and Drainage Board, which administers the systems in the County of Cumberland, i.e., in Sydney and in the surrounding districts, and, in addition, has jurisdiction over territory extending along the South Coast beyond Wollongong to Lake Illawarra, and (b) the Hunter District Water Board, serving the Newcastle area. At Broken Hill, a similar board includes a representative of the mining companies. Other systems, apart from irrigation projects and water storage systems administered by the State Government, are controlled by county, municipal or shire councils.
- (ii) Water Supply—to 30th June, 1957. (a) Metropolitan. The storage reservoirs of the metropolitan system, with a combined available capacity of 125,788 million gallons, drain catchment areas of 376 square miles (Upper Nepean, 347 square miles and Woronora, 29 square miles). Water is drawn also from the Warragamba River, with a catchment of 3,383 square miles. This system is being developed, and building is in progress of a dam to have an overall height of 415 feet (greatest depth of water 340 feet) having a storage capacity of 460,000 million gallons and giving a net safe draught estimated at 263 million gallons a day in addition to 11 million gallons a day for riparian purposes. The existing temporary storage is supplied by a weir 50 feet high with a maximum storage of 579 million gallons. At 30th June, 1957, there were 121 service reservoirs in use with a combined capacity of 546 million gallons. Rating for water for 1956-57 was 10d. in the £1 of assessed annual value and the charge for water measured by meters 2s. 3d. per 1,000 gallons.

- (b)! Newcastle. The water supply is drawn from two sources (1) the Chichester Reservoir, with a storage capacity of about 5,000 million gallons and draining a catchment of 76 square miles, and (2) the Tomago Sandbeds, which extend northerly along the coast towards Port Stephens. Service reservoirs and tanks distributed throughout the Water Supply District have a total storage capacity of 113 million gallons. Water rating for 1956-57 was 1s. 6\frac{1}{2}d. in the \frac{1}{2}1 on assessed annual value for occupied properties and 1s. 3\frac{1}{2}d. in the \frac{1}{2}1 for unoccupied properties. The price of water to domestic and industrial consumers is 2s, 6d. per 1,000 gallons.
- (c) Water Supplied, etc. The following tables show, for the Sydney and Newcastle systems, the number of properties, the estimated population supplied, and other details for the years 1938-39 and 1952-53 to 1956-57:—

WATED	CHIDDLY	SYDNEY(a):	CEDVICES
WAILK	SUPPLIE.	ATTRECTOR:	SEKVILES.

_					,	· · -		
	Improved	Esti-	Average	Total	Average Daily Consumption.			
	erties for which Water Mains available.	mated Popu- lation Supplied.	Daily Con-	Con- sumption	Per Pro- perty.	Per Head of Esti- mated Popu- lation.	Length of Mains.	Number of Meters.
	350,161	1,466,000		Mill. gals. 38,790	Gallons. 304	Gallons. 72.5	Miles. 4,539	126,754
::	478,598 496,025 513,855 531,977 545,992	1,975,000 2,014,000 2,053,000	163.9 161.8 174.3	54,621 59,810 59,064 63,791 71,530	313 330 315 332 364	76.4 83.7 80.4 85.6 94.1	5,357 5,502 5,656 5,788 5,904	246,383 270,239 294,463 308,511 326,173
		Improved Properties for which Water Mains available. 350,161 478,598 496,025 511,855 531,977	Improved Properties Mains available. 350,161 1,466,000 1,975,	Improved Properties for which Water Mains available. 350,161 1,466,000 106.3 478,598 1,958,000 149.6 496,025 1,975,000 161.8 531,977 2,053,000 174.3	Improved Properties for which Water Mains available. 350,161 1,466,000 1,975,000 163.9 59,810 131,977 2,053,000 174.3 63,791	Improved Properties for which Water Mains available. 350,161 1,466,000 149.6 496,025 1,975,000 163.9 513,855 2,014,000 161.8 59,064 315 313,977 2,033,000 174.3 63,791 332 332 332 332 332 332 332 332 334 332 3	Improved Properties for which Water Mains available. Asset Mains Asset Mains available. Asset Mains A	Improved Properties for which Water Mains available. State Mains available Mill. gals. Average Daily Consumption. Average Daily Consumption. Average Daily Consumption. Per Head of Estimated Daily Consumption Per Property. Per Head of Estimated Property. Per

(a) Includes part of South Coast.

WATER SUPPLY, NEWCASTLE: SERVICES.

				Esti-		Total	Averag Consur		
	Year.		Pro- perties Supplied.	mated Popu- lation Supplied.	Daily Con- sump- tion.	Daily Con- Con- sump- tion for Year		Per Head of Esti- Pro- perty. Popu- lation.	
1938-39	••	<u> </u>	48,370	193,480	Mill. gals.	Mill. gals. 4,331	Gallons. 245	Gallons. 61.3	Miles. 936
1952-53 1953-54 1954-55 1955-56 1956-57	••	••	69,244 71,307 73,770 76,272 77,380	276,976 285,228 295,080 305,088 309,520	23.9 25.5 25.1 27.2 29.5	8,719 9,416 9,179 9,945 10,768	345 362 341 356 381	86.3 90.4 85.2 89.1 95.3	1,262 1,284 1,322 1,354 1,369

(iii) Sewerage and Drainage—to 30th June, 1957. (a) Metropolitan. Sydney and suburbs are served by 3 major sewerage systems and 5 minor systems consisting of 6 outfalls discharging direct into the Pacific Ocean and 2 treatment works. A further treatment works is in course of construction near Kurnell and is designed to serve the whole of the Cronulla Peninsula. In addition, 4 centres outside the metropolitan area (Camden, Campbelltown, Liverpool and Wollongong) are served by local treatment works.

Stormwater drainage channels under the control of the Metropolitan Water, Sewerage and Drainage Board at 30th June, 1957, were 175 miles long. Sewerage rating for 1956-57 was $9\frac{1}{2}$ d. in the £1 of assessed annual value and drainage rating $1\frac{1}{6}$ d. in the £1.

(b) Newcastle. The main sewerage system of the Newcastle area discharges into the Pacific Ocean at Merewether Gulf. In some of the outlying districts, treatment works have been installed.

Sewerage rates for 1956-57 were 1s. 1½d. in the £1 of assessed annual value of occupied lands and 10½d. in the £1 for unoccupied lands and drainage rates (on certain areas served) 1½d. in the £1.

(c) Particulars of Services. The following table gives, for the Metropolitan system, details of sewerage services and stormwater drains as at 30th June, 1939 and 1953 to 1957.

SEWERAGE AND DRAINAGE, METROPOLITAN(a): SERVICES.

	At 30th	June		Improved Properties for which Sewerage Available.	Estimated Population Served.	Lengths of Sewers.	Length of Stormwater Channels.	
1939				254,632	1,066,000	Miles. 2,561	Miles. 87	
1953	••			316,439	1,293,000	3,055	174	
1954				324,737	1,354,000	3,163	175	
1955			i	334,280	1,390,000	3,252	175	
1956				344,655	1,425,000	3,349	175	
1957				353,800	1,457,000	3,462	175	
			- 1		ŀ	į	1	

(a) Includes part of South Coast.

At 30th June, 1957, 51,101 premises had been connected to the Hunter District Water Board's sewerage system (Newcastle area). The total length of sewers under the Board's control was 677 miles, and the length of drains was 49 miles.

(iv) Finances, Sydney and Newcastle Systems. The following table shows the debt, revenue and expenditure of the Metropolitan Water, Sewerage and Drainage Board and the Hunter District Water Board for each of the services of water supply, sewerage and drainage during 1956-57 and for the three services combined during the years 1938-39 and 1952-53 to 1956-57.

WATER SUPPLY, SEWERAGE AND DRAINAGE, METROPOLITAN AND NEWCASTLE: FINANCES.

				(£.)				
		Comitant			Expen	diture.		
Yea	ır,	Capital Debt at 30th June.	Revenue.	Working Expenses.	Interest and Exchange.	Debt Redemp- tion.	Total.	Surplus(+) or Deficit(-).
		<u>'</u>	ME	TROPOLITA	N.(b)			
1956-	57							
Water Sewerage Drainage	:: ::	74,377,054 29,880,190 c 1,370,460	3,926,710	3,276,904 2,378,998 197,863	2,756,120 1,106,144 36,823	1,079,681 439,684 21,047	7,112,705 3,924,826 255,733	+ 2,382 + 1,884 + 1,833
Total	1956-57	105,627,704	11,299,363	5,853,765	3,899,087	1,540,412	11,293,264	+ 6,099
	1955-56 19 54 -55 1953-54 1952-53	98,801,814 91,434,271 84,474,951 77,117,666	8,507,664 7,891,016	4,851,588 4,732,625 4,365,926 3,494,464	3,446,598 3,109,747 2,878,004 2,618,630	1,044,103 641,164 598,634 554,435	9,342,289 8.483,536 7,842,564 6,667,529	+ 7,121 + 24,128 + 48,452 + 5,048
	1938-39	43,769,741	2,926,694	957,422	1,727,708	241,564	2,926,694	
				NEWCASTL	E.	,	<u> </u>	<u>'</u>
1956-	57			1	1			
Water Sewerage Drainage	::	10,846,725 3,549,841 205,668	452,922 32,869	680,779 284,992 24,099	393,359 120,732 7,121	144,071 47,922 2,725	1,218,209 453,646 33,945	+ 5,861 - 724 - 1,076
Total	1956–57 1955–56 1954–55 1953–54 1952–53	14,602,234 13,175,757 11,842,265 10,439,017 9,431,369	1,534,591 1,465,655 1,245,444	989,870 981,473 943,382 828,021 726,137	521,212 435,203 382,663 332,628 294,769	194,718 82,767 73,330 66,407 59,747	1,705,800 1,499,443 1,399,375 1,227,056 1,080,653	+ 4,061 + 35,148 + 66,280 + 18,388 + 39,122
	1938-39	4,574,880	385,732	167,620	188,185	20,886	376,691	+ 9,041

⁽a) Includes provision for renewals, long service leave, loss on exchange, etc. (b) Includes part of South Coast. (c) Excludes non-interest bearing capital in respect of stormwater drains transferred from Public Works Department—£2,219,823 at 30th June, 1957.

- (v) Country Water Supply and Sewerage Systems. At 31st December, 1955, country water supply services were conducted or under construction by 60 municipalities, 69 shires and 4 county councils, and country sewerage services by 55 municipalities and 21 shires. The capital indebtedness of these schemes was £19,927,514 at 31st December, 1955, namely, £14,222,549 for water and £5,704,965 for sewerage. Debt of the municipalities amounted to £10,646,749, shires to £5,310,706 and county councils to £3,970,059. Government advances amounting to £474,410 are included in these figures. Aggregate income and expenditure amounted to £3,211,000 and £2,362,000, respectively, in 1955.
- (vi) Other Water Supply and Sewerage Systems. The water supply and sewerage services for Broken Hill are operated by a statutory board, the Broken Hill Water Board. Its capital indebtedness at 31st December, 1956, was £3,070,531. In 1956, income (excluding subsidies, State Government £100,644 and Mining Companies £290,958) amounted to £189,121 and expenditure (excluding debt redemption £157,748) amounted to £421,513.

The following country water supply systems—South-West Tablelands, Junee and Fish River—are administered by the Department of Public Works. These supply water in bulk to municipalities and shires, the Railways Department, and other large consumers. Only a small quantity is sold directly to private consumers. The capital indebtedness of these systems was £4,711,162 at 31st December, 1957.

The Mulwala Water Supply and Sewerage Service was constructed as an urgent wartime work for the Commonwealth, and the Bethungra Water Supply System is administered by the Department of Public Works in conjunction with the Junes supply.

- 2. Victoria.—(i) Melbourne and Metropolitan Board of Works. (a) General. The Board was established by Act of Parliament on 20th December, 1890. Since August, 1955, the Board has consisted of a Chairman and 50 Commissioners elected to represent the municipalities which lie wholly or partly within the metropolitan area. The Chairman is elected by the Commissioners for a four-year term. The principal functions of the Board until 1954 were to control and manage the metropolitan water supply system; to provide the metropolitan area with an efficient main and general sewerage; to deal with main drains and main drainage works; and to control and manage the rivers, creeks and watercourses within the metropolitan area. The Board has carried out since December, 1954, the additional functions of a permanent planning authority and in June, 1956, it became the authority directly responsible for metropolitan main highways, bridges, parks and foreshores.
- (b) Water Supply. There are six storage reservoirs serving the metropolitan area—Yan Yean, 7,234 million gallons (available for consumption, 6,649 million gallons). Toorourrong, 60 million gallons; Maroondah, 6,289 million gallons (4,870 million gallons); O'Shannassy, 930 million gallons; Silvan, 8,853 million gallons (8,823 million gallons); and Upper Yarra, 45,400 million gallons (44,120 million gallons); total, 68,766 million gallons (65,452 million gallons). Service reservoirs number 29, with a total capacity of 317 million gallons.

The water rate levied by the Board in 1956-57 was 8d in the £1 on the net annual value of the properties served. The charge for water consumed in excess of the quantity which at 1s. per 1,000 gallons would equal the water rates payable on each property was 1s. 6d, per 1,000 gallons. The following table shows particulars of Melbourne metropolitan water supply services for the years 1938-39 and 1952-53 to 1956-57.

WATER	SUPPLY.	MELBOURNE:	SERVICES.

		Number	Esti-	Average Daily	Total Con-	Averag Consu	e Daily nption.	Length of Aque- ducts,	
Year	•	of Houses Supplied.	mated Popu- lation Supplied.	Daily Con- sump- tion.	sumption Per Head of Esti-mated Reti		Mains and Reticu- lation.	Number of Meters.	
			[Mill. gals.	Mill. gals.	Gallons.	Gallons.	Miles.	
1938-39		285,408	1,133,000	76.8	28,040	269	67.8	3,234	189,617
1952-53 1953-54 1954-55 1955-56 1956-57		378,439 390,035 405,464 424,500 440,159	1,382,000 1,404,000 1,460,000 1,528,000 1,585,000	102.4 110.6 110.3 113.0 119.6	37,383 40,354 40,270 41,377 43,652	271 283 272 266 271	74.1 78.8 75.6 74.0 75.4	4,134 4,213 4,300 4,381 4,478	264,916 266,395 273,856 289,567 299,676

(c) Sewerage and Drainage. Particulars of sewerage and drainage services for 1938-39 and 1952-53 to 1956-57 are shown below. The rate levied in 1956-57 in respect of sewerage was 1s. 2d. in the £1 on the net annual value of the property served. The drainage rate was 2d. in the £1.

SEWERAGE AND DRAINAGE, MELBOURNE: SERVICES.

		Number of	Esti- mated Popu-		Total		e Daily ping.	Length	Length
Үеаг.		Houses for which Sewers are Provided.	lation for which Sewers are Provided.	Average Daily Pumping.	Sewage Pumped for the Year.	Per House.	Per Head of Esti- mated Popu- lation.	of Sewers, etc.	of Main Drains.
				Mill. gals.	Mill. gals.	Gallons.	Gallons.	Miles.	Miles.
1938-39		269,411	1,070,000	48.2	17,601	179.0	45.1	2,586	97
1952-53 1953-54 1954-55 1955-56 1956-57	••	338,314 345,370 351,617 358,805 366,507	1,236,000 1,243,000 1,266,000 1,292,000 1,319,000	70.1 74.8 76.8	26,692 25,599 27,315 28,118 27,181	216.1 203.1 212.8 214.1 203.2	59.2 56.4 59.1 59.4 56.5	2,989 3,019 3,071 3,125 3,180	131 134 137 151 161

The metropolitan sewerage system consists of the Main system (serving an area of 73,162 acres) and three subsidiary systems—the Sunshine system (serving an area of 1,634 acres), the Kew system (serving an area of 103 acres) and the South-eastern system (serving an area of 2,616 acres in Cheltenham, Parkdale, Mentone and Mordialloc). The Metropolitan Sewage Farm, 26,854 acres in extent and situated about 24 miles south-west of Melbourne beyond the township of Werribee, serves to purify and dispose of approximately 95 per cent. of the sewage flow of the metropolis before its discharge into Port Phillip Bay. The total capital cost (less depreciation) of the Farm to 30th June, 1957, was £3,216,627. Revenue during 1956-57 amounted to £160,346, cost of sewage disposal to £206,984, trading expenses to £104,581, interest to £136,477, and net cost of sewerage purification to £287,696. These financial particulars are included in the sewerage items of the summary below.

(d) Finances. The following table provides for the year 1956-57 a summary of the financial operations of the three services conducted by the Melbourne and Metropolitan Board of Works.

MELBOURNE AND METROPOLITAN BOARD OF WORKS: FINANCES, 1956-57. (£.)

		Capital Cost of						
Service, et	c.	Works and Buildings at 30th June.(a)	Revenue.	Working Expenses.	Interest and Exchange.	Debt Redemp- tion.	Total.	Surplus(+) or Deficit(-).
Water Sewerage Drainage General(b)	::	37,254,115 25,905,135 5,849,842 3,064,938	2,729,133 3,060,165 452,216	1,195,055 1,229,051 322,416 477,565	1,492,980 1,084,890 183,321 90,000	·· ·· 149,139	2,688,035 2,313,941 505,737 716,704	+ 746,224 - 53,521
Total		72,074,030	6,241,514	3,224,087	2,851,191	149,139	6,224,417	+ 17,097

⁽a) Total loan indebtedness—1956-57, £59,655,685. distributed over Services.

The following table shows the financial operations of the Melbourne and Metropolitan Board of Works (all services combined) for the years 1938-39 and 1952-53 to 1956-57:—

MELBOURNE AND METROPOLITAN BOARD OF WORKS: FINANCES.

		, ,		(~-)					
		Capital Cost of				Surplus(+)			
Year.	at 30th June.		Revenue.	Working Expenses.	Interest and Exchange.	Debt Redemp- tion.	Total.	or Deficit(-)	
1938-39	•••	28,513,539	2,214,295	762,558	1,316,603	64,269	2,143,430	+ 70,865	
1952-53 1953-54 1954-55 1955-56 1956-57		48,162,372 52,068,617 57,747,795 64,557,489 72,074,030		2,384,131 2,744,555 2,899,891		106,796 123,977 132,466	4,023,608 4,501,657 5,080,124 5,598,944 6,224,417	+ 210,876 + 10,984 + 4,859	

- (ii) Geelong Waterworks and Sewerage Trust. (a) General. The Geelong Waterworks and Sewerage Trust was constituted in 1908 and reconstituted under the Geelong Waterworks and Sewerage Act in 1910. It was further reconstituted in September, 1950, to include a Government nominee (Chairman) and provision was made for a commissioner to be elected by the ratepayers of the Shire of Corio, making a total of seven commissioners instead of five as formerly. The amount of loan money which may be raised is limited to £6,500,000 for water supply undertakings, and £1,250,000 for sewerage undertakings. The population supplied is estimated by the Trust at 89,500. This and other general information relates to 30th June, 1957.
- (b) Water Supply. The catchment area is about 32,000 acres. There are seven storage reservoirs and eleven service basins whose total storage capacity is 8,640 million gallons. The length of water mains and reticulation is 423 miles. The total expenditure on water supply to 30th June, 1957, was £2,999,074. Expenditure for 1956-57 comprised £106,152 for working expenses and £151,772 for interest, redemption and reserves, while revenue amounted to £260,393. The sinking fund appropriations at June, 1957, amounted to £176,714. The replacement and contingencies reserve amounted to £267,019. There is a water rate of 1s. 5d. in the £1 (with minima of 10s. for vacant land and £1 for tenements) on the net annual value of ratable properties.
- (c) Sewerage Works. The sewerage scheme consists of a main outfall sewer to the ocean at Black Rock, about 9 miles from Geelong, and 193 miles of main and reticulation sewers. The sewerage area is 10,559 acres, and the number of buildings within the sewered areas is 17,800, of which 17,716 have been connected. The total expenditure on sewerage works to 30th June, 1957, was £1,156,563. The revenue in 1956-57 amounted to £149,605 and the expenditure comprised £68,649 on working expenses and £67,474 on interest, redemption and reserves. Sinking fund appropriations at June, 1957, were £140,335,

⁽b) Statutory and general expenditure not

Replacement and contingencies reserve amounted to £253,417. A general rate of 1s. 4d. in the £1 is levied on the net annual value of ratable properties.

- (iii) The Ballarat Water Commission and the Ballarat Sewerage Authority. (a) General. The Ballarat Water Commission was constituted on 1st July, 1880, and the Ballarat Sewerage Authority on 30th November, 1920. The members of the Water Commission constitute the Sewerage Authority. The Commissioners number nine, three (one of whom is chairman) being appointed by the Government, four being elected by the Council of the City of Ballaarat, one being elected by the Councils of the Borough of Sebastopol and the Shires of Buninyong and Grenville and one being elected by the Councils of the Shires of Bungaree and Ballarat. General and financial information given herein relates to the year ended 31st December, 1957.
- (b) Water Supply. The Water Supply District embraces an area of about 65 square miles, containing a population of about 53,000. The total storage capacity of the seven reservoirs is 5,605 million gallons and the catchment area is 22,562 acres.
- The capital cost of construction of the waterworks was £2,176,460 to 31st December, 1957. The liabilities amounted to £1,240,980 at 31st December, 1957, including loans due to the Government totalling £1,142,960. The revenue for the year 1957, was £158,296. Working expenses during 1957 amounted to £80,948 and interest and other charges to £74,078. A rate of is. 1d. in the £1 is levied on the net annual value of all ratable properties, with a minimum of £1 per annum for land on which there is a building or water supply.
- (c) Sewerage. The Ballarat sewerage district embraces the City of Ballarat and parts of the Shires of Ballarat and Bungaree and the Borough of Sebastopol. Work was commenced in 1922 and up to 31st December, 1957, the Authority had constructed a disposals works, a nightsoil depot, an ejector station and more than 111 miles of sewers. The capital cost of sewerage construction works to 31st December, 1957, was £808,598. The method of sewage disposal is by sedimentation, oxidation and sludge digestion. One hundred and sixty-two sewered areas had been declared as at 31st December, 1957. Assessments in the sewerage district numbered 15,998, while those in sewered areas numbered 12.444. There were 10,929 buildings connected.

The scheme is financed by debenture-issue loans from various financial institutions. The liabilities on account of loans secured for construction at 31st December, 1957, amounted to £648.598; redemption payments at that date totalled £247,975. An expenditure of £157,122 was incurred for house connexions, the whole of which has been redeemed. Revenue during 1957 amounted to £84,078 and expenditure, which included £42.658 on interest and redemption, was £85,068.

A sewerage rate of 1s. 4d. in the £1 is levied, with a minimum charge of £2 4s., on the net annual value of any ratable sewered property on which there is a building and £1 on any ratable sewered property on which there is no building.

(iv) Other Sewerage Authorities. At 30th June, 1957, 63 sewerage authorities had been constituted under the provisions of the Sewerage Districts Acts in districts outside the areas under the control of the Melbourne and Metropolitan Board of Works, the Geelong Waterworks and Sewerage Trust, and the Ballarat Sewerage Authority, and systems were in operation in 35 districts (including two partly operating) serving a population of 340,000 persons.

The operations of the other 28 districts constituted at this date had either been suspended or not commenced.

(v) Water Supply in Country Towns and Districts. Most of the country waterworks are controlled by the State Rivers and Water Supply Commission, but in some instances the control is by waterworks trusts or by municipal corporations.

The waterworks controlled by the State Rivers and Water Supply Commission at 30th June, 1957, included 38 large reservoirs and 246 subsidiary reservoirs and service basins with a total storage capacity of 1,351,050 million gallons (4,962,550 acre feet). Length of channels was 15,332 miles (irrigation, 5,073 miles, domestic and stock 8,012 miles, drainage and flood protection, 2,247 miles) and of pipe lines 1,278 miles. The quantity of water delivered to water users during 1956-57 was 1,139,373 acre feet which was the highest figure ever recorded. The Commission administered 65 rural districts during 1956-57 (29 irrigation districts, 31 waterworks districts, 4 flood protection districts and 1 drainage district), and the reticulated pipe supplies for domestic and industrial purposes in 130 urban districts. In addition, 137 urban districts were administered by waterworks trusts and 21 by local governing bodies. The population served in these groups of urban districts numbered, respectively, 207,970, 380,950 and 114,880 persons. The table below is a summary of the Commission's finances for operations in districts under its control for the years 1938-39 and 1952-53 to 1956-57.

STATE RIVERS	AND	WATER	SUPPLY	COMMISSION,	VICTORIA:	FINANCES.(a)
				(£.)		

		Total Loan	i :	Payments.							
Year.		Capital Expenditure to 30th June.	Receipts.	Operating Expenses.	Interest on Capital Allotted.	Deprecia- tion.	Debt Redemp- tion.	Total.			
1938–39		24,223,037	560,680	476,085	145,105	27,553	4,922	653,665			
1952-53		57,464,776	1,989,289	2,669,419	26,555	90,024	3,284	2,789,282			
1953-54		65,143,250	2,412,382	2,717,862	75,101	90,616	5,181	2,888,760			
1954-55		73,456,588	2,532,946	2,781,621	95,335	120,475	2,465	2,999,896			
1955-56		79,847,923	2,810,391	2,940,637	118,379	127,774	5,491	3,192,281			
1956-57		85,705,533	2,874,904	3,194,160	130,621	134,101	3.750	3,462,632			

⁽a) Excludes waterworks and river improvement trusts and local governing bodies under the general supervision of the Commission.

The total loan capital expenditure of waterworks and river improvement trusts and local governing bodies to 30th June, 1957, was £11,875,701, making a grand total of £97,581,234 when added to the figure for works under the control of the Commission. The net loan capital after redemption payments of £3,602,581 was £93,978,652.

The financial operations of the State Rivers and Water Supply Commission form part of the Consolidated Revenue Fund, but are included in this section for convenience. The major proportion of the interest payable is borne by the State and is additional to that shown above. The net expenditure borne by the State during 1956-57 was £3.868.507.

- 3. Queensland.—(i) Brisbane City Council—to 30th June, 1957. (a) General. This organization conducts the water supply and sewerage systems of the City of Brisbane. Prior to 1928, water and sewerage activities had been controlled by the Metropolitan Water and Sewerage Board, but were then absorbed by the Brisbane City Council, which also supplies, in bulk, the whole of the water used by the City of Ipswich and the Town of Redcliffe.
- (b) Water Supply. Water storage facilities comprise the following (available capacities are shown in parentheses):—Somerset Reservoir, 200,000 million gallons (55,000 million gallons); Lake Manchester, 5,806 million gallons (5,725 million gallons); Brisbane River, 543 million gallons (484 million gallons); Pure Water Reservoir, Holt's Hill, 8.3 million gallons (8.3 million gallons); Enoggera Reservoir, 1,000 million gallons (600 million gallons); Gold Creek Reservoir, 407 million gallons (400 million gallons). There are sixteen service reservoirs with a capacity of approximately 41 million gallons. The Somerset reservoir is under the control of Stanley River Works Board and is a dual purpose project with a designed total holding capacity of 200,000 million gallons, 55,000 million gallons to be for water storage and 145,000 million gallons for flood mitigation. Water rating at 30th June, 1957, was 3\frac{3}{2}d. in the £1 of unimproved capital value for improved properties, and 2\frac{1}{2}d. in the £1 for vacant lands, with a minimum charge of £5 9s. and £4 5s. respectively. The following table is a summary of operations of the complete Brisbane City Council system (metropolitan area, Ipswich and Redcliffe) for the years 1938-39 and 1952-53 to 1956-57:—

WATER SUPPLY, BRISBANE(a): SERVICES.

			Esti-	Total		Averag Consur	e Daily	Length of	Nonether
Year.		Services Con- nected.	mated Popu- lation Supplied.	Average Daily Con- sumption.	Con- sumption	Per Service.	Per Head of Esti- mated Popu- lation.	Trunk and Reticu- lation Mains.	Number of Meters.
1938-39	-	81,389	345,903	Mill. gals. 15.9	Mill. gals. 5,791	Gallons. 195	Gallons. 45.9	Miles. 1,169	(b)
1953-54 1954-55 1955-56		131,895 139,172 144,459 148,632 153,035	501,000 520,000 530,000 543,000 560,000	31.5 33.9 34.1 36.4 41.1	11,486 12,379 12,458 13,283 15,012	239 244 236 245 269	61.0 62.3 64.3 67.0 73.5	1,760 1,817 1,870 1,929 1,959	52,360 51,976 51,138 49,588 (b)

⁽a) Includes Ipswich and Redcliffe.

⁽b) Not available.

(c) Sewerage. The sewage treatment works is situated at Luggage Point at the entrance to the Brisbane River. An activated sludge system of treatment was originally planned but, since the commencement of pumping operations, a sedimentation plant only has been used. Sewerage rating at 30th June, 1957, was 2\frac{1}{3}d. in the £1 of unimproved capital value for improved properties, and 2\frac{1}{3}d. in the £1 for vacant lands, with a minimum charge of £6 6s. and £5 6s. respectively. The following table is a summary of operations of the Brisbane sewerage scheme for the years 1938-39 and 1952-53 to 1956-57:—

SEWERAGE, BRISBANE: SERVICES.

		Year.			Premises Connected.	Estimated Population Served.	Total Sewage Pumped for the Year.	Length of Main, Branch, Reticulation etc., Sewers.
1938-39	••	• •	••		33,200	150,000	Mill, Galls.	Miles. 484
1952-53					47,500	182,000	4,791	630
1953-54	٠.				48,700	183,000	4,868	647
1954-55					50,400	187,000	4,944	665
1955-56	• •				53,100	196,000	6,222	696
1956-57	• •	• • •	• • •	• • • • • • • • • • • • • • • • • • • •	54,300	201,000	4,837	712
						İ		

(a) Not available.

(d) Finances. The following table shows particulars of the finances of the water supply and sewerage undertakings of the Brisbane City Council for the years 1938-39 and 1952-53 to 1956-57:—

WATER SUPPLY AND SEWERAGE, BRISBANE: FINANCES.

(£.)

		Gross			Expenditure.		 Surplus(+)	
Service and Year.		Capital Cost to 30th June.	Revenue.	Working Expenses.	Interest, Redemp- tion, etc. Charges.	Total.	or Deficit(-).	
Water Supply								
1938–39		4,849,732	606,244	129,219	280,827	422,366	+ 183,878	
1952-53		9,861,885	1,280,390	587,695	403,349	1,164,278	+ 116,112	
1953-54		10,672,306	1,326,644	640,838	434,073	1,237,040	+ 89,604	
1954-55		12,248,875	1,296,624	697,625	492,951	1,275,644	+ 20,980	
1955-56		12,618,584	1,479,045	765,970	549,707	1,459,738	+ 19,307	
195657		13,159,492	1,634,624	810,150	564,708	1,610,117	+ 24,507	
Sewerage—				' i				
1938–39		5,992,936	240,963	52,792	403,386	485,974	- 245,011	
1952-53		10,863,167	591,584	171,614	330,642	564,704	+ 26,880	
1953-54		11,898,902	603,141	163,397	349,692	552,651	+ 50,490	
1954-55		12,705,307	578,257	166,609	391,744	628,081	- 49,824	
1955-56		13,125,463	719,623	217,238	408,917	707.476	+ 12,147	
1956-57		13,475,340	757,507	245,035	414,315	744,755	+ 12,752	

⁽ii) Country Towns. (a) Water Supply. In addition to the City of Brisbane, there were, at 30th June, 1957, 142 cities and towns in Queensland provided with water supply systems controlled by municipal and shire councils.

⁽b) Sewerage Systems. At 30th June, 1957, there were 14 cities and towns outside the metropolitan area—Bundaberg, Charleville, Cunnamulla, Goondiwindi, Hughenden, Ipswich, Mackay, Maryborough, Quilpie, Rockhampton, Toowoomba, Townsville and Warwick—with sewerage systems. Sewerage systems were in course of construction at Barcaldine, Bowen, Blackall, Cairns, Longreach, Mt. Isa, Redcliffe, Roma, Surat and Winton.

(c) Finances. The receipts (other than loan) of water undertakings controlled by the cities and towns referred to above amounted to £1,584,454 in 1956-57. Expenditure amounted to £1.648,840, including £615,342 for debt charges. In addition, loan expenditure amounted to £1.697,301.

Finances of sewerage undertakings are incorporated in council general funds and are not available separately.

- 4. South Australia.—(i) General. The water supply and sewerage systems in this State were constructed and are maintained by the Engineering and Water Supply Department under the control of the Minister of Works. The works controlled comprise the Adelaide, Barossa, Baroota Creek, Beetaloo, Bundaleer, Tod River, Warren and other country water districts systems, the Morgan-Whyalla water supply system, the Adelaide metropolitan sewerage system, the Murray River Weirs water conservation, and the Metropolitan Flood Waters Scheme. In 1955-56, construction commenced on the Salisbury-Elizabeth Sewerage Scheme.
- (ii) South Australian Waterworks. (a) Services. The table hereunder shows particulars of the area, capacity, etc. of combined metropolitan and country waterworks for the years 1938-39 and 1953-54 to 1957-58:—

WATERWORKS, SOUTH AUSTRALIA: SERVICES.

		Assessi	ments.(a)	Агеа	Capacity		
Year.		Number. Annual Value.		of Districts Supplied. (a)	of Reservoirs, Tanks, etc.	Length of Mains.	Number of Meters.
			£	Acres.	Mill. gals.	Miles.	
1938-39		185,625	6,302,445	11,857,968	23,814	6,384	97,074
1953-54	(237,742	14,319,989	11,985,353	24,013	7,555	125,144
1954-55		239,389	15,307,092	12,100,784	24,014	7,700	134,058
1955-56		243,809	20,827,954	12,106,795	24,014	7,777	150,317
1956-57		250,306	22,687,480	12,860,508	24,015	7,916	166,350
1957-58		272,894	26,810,750	12,983,539	33,949	8,260	180,815

(a) Excludes Morgan-Whyalla Water Supply-water sold by measure.

(b) Finances. Figures for 1938-39 and 1953-54 to 1957-58 are shown in the following table.

WATERWORKS, SOUTH AUSTRALIA: FINANCES.

(£.)

					Expenditure.		<u> </u>	
Year.		Capital to 30th June.	Revenue.	Working Expenses.			Deficit.	
1938~39		14,649,052	653,842	241,684	651,970	893,654	239,812	
1953-54 1954-55 1955-56	••	32,156,877 37,353,231 41,501,133	1,725,017	1,424,169 1,855,026 1,920,666	883,876 1,095,914 1,328,068	2,308,045 2,950,940 3,248,734	802,35 5 1,225,923 1,166,040	
1956-57 1957-58		45,239,197 49,161,026	2,318,072	2,295,444 2,944,648	1,485,486 1,740,157	3,780,930 4,684,805	1,462,858	

(iii) Adelaide Waterworks. At 30th June, 1958, the Adelaide waterworks supplied a district of 146,284 acres. The capacity of its five reservoirs and storage tanks was 14,469 million gallons and there were 2,037 miles of mains.

The Mannum-Adelaide pipeline conveys water from the River Murray to Angas Creek and supplements the Metropolitan and Warren systems, serving country areas en route. Another major project, the construction of a large reservoir on the South Para River, is now completed. This reservoir provides additional storage to serve the lower northern areas of the State and makes some additional provision for the metropolitan area. The capacity of the new reservoir is about 10,000 million gallons.

Particulars of finances for the years 1938-39 and 1953-54 to 1957-58 are shown below:—

ADELAIDE WATERWORKS: FINANCES.

(£.)

		Invested			Surplus (+)			
Year.		Capital to 30th June.	Revenue.	Working Expenses.	Interest.	Total.	or Deficit (-).	
1938–39	• •	4,676,110	446,273	111,161	202,279	313,440	+ 132,833	
1953–54		14,438,595	968,575	614,308	377,909	992,217	- 23,642	
1954-55		17,922,472	1,062,519	923,222	511,127	1,434,349	-371,830	
1955-56		20,434,323	1,358,896	930,138	646,720	1,576,858	-217,962	
1956-57		23,115,689	1,492,610	1,218,285	759,012	1,977,297	484,687	
1957-58		25,900,153	2,045,625	1,621,017	906,988	2,528,005	- 482,380	

⁽a) Includes debt redemption.

(iv) Adelaide Metropolitan Sewerage. The Adelaide metropolitan sewerage system, comprising the Adelaide, Glenelg and Port Adelaide areas, with drainage areas of 109 square miles in all, includes a sewage farm, and treatment works at Glenelg and Port Adelaide. The total quantity of sewage pumped by the various stations was 6,760 million gallons during 1957-58. Other particulars for 1938-39 and 1953-54 to 1957-58 are shown hereunder:—

ADELAIDE METROPOLITAN SEWERAGE: SUMMARY.

	_				E			
Year.	Length of Sewers.	Number of Con- nexions.	Capital to 30th June.	Revenue.	Working Expenses.	Interest.	Total.	Surplus(+) or Deficit(-)
	Miles.		£	£	£	£	£	£
1938–39	923	80,745	3,361,034	268,880	77,023	150,273	227,296	+ 41,584
1953–54	1,244	126,375	6,325,084	601,253	440,028	179,435	619,463	– 18,210
1954-55	1,292	131,932	6,974,042	641,194	468,969	205,594	674,563	- 33,369
1955-56	1,335	137,995	7,602,416	866,754	577,872	238,748	816,620	+ 50.134
1956-57	1,370	143,743	8,273,936	1.167,508	648,999	263,270	912,269	+255,239
1957-58	1,411	149,104	9,213,112	1,393,260	653,810	309,145		+430,305

⁽a) Includes debt redemption.

⁽v) Country Sewerage Schemes. In 1957-58, the total length of the Salisbury sewerage scheme was 53 miles and the number of its connexions 4,233. The Port Lincoln scheme, which is one mile in length, had 37 connexions in 1957-58.

⁽vi) Country Water Supply. Water district systems outside Adelaide at 30th June, 1958, comprised an area of 12,837,255 acres, and the capacity of the reservoirs was 19,480 million gailons. These figures exclude the Morgan-Whyalla supply system, which obtains its water from the River Murray. The storage tanks of this system had a capacity of 44 million gallons.

The Uley-Wanilla sub-artesian basin has been utilized to augment the Tod River District supplies. Pumping began in 1947. In 1957-58, nine bores were in operation and 458 million gallons were pumped from the basin to meet the needs of Port Lincoln. At 30th June, 1958, £5,185,843 had been invested in the Tod River District.

Construction work is proceeding on the scheme to reticulate water to Yorke Peninsula. The trunk main from Bundaleer Reservoir has been extended to South of Minlaton and country lands are fully reticulated to about the latitude of Maitland.

The following table gives financial information on country waterworks for 1938-39 and 1953-54 to 1957-58:---

COUNTRY WATERWORKS, SOUTH AUSTRALIA: FINANCES.

(£.)

		Invested			Expenditure.			
Year.		Capital to 30th June.	Revenue.	Working Expenses. (a)	Interest.	Total.	Deficit.	
1938–39		10,015,613	207,569	130,523	449,691	580,214	372,645	
1953-54 1954-55		17,718,282	537,115 662,498	809,861 931,804	505,967 584,787	1,315,828 1,516,591	778,713 854,093	
1955-56	• • •	21,066,810	723,798	990,528	681,348	1,671,876	948,078	
1956–57 1957–58		22,123,508 23,260,873	825,462 982,568	1,077,159 1,323,631	726,474 833,169	1,803,633 2,156,800	978,171 1,174,232	

(a) Includes debt redemption.

- (vii) Morgan-Whyalla Water Supply Scheme. This scheme, which involved the laying of 223 miles of main, was officially opened on 31st March, 1944, the capital invested to 30th June, 1958, being £2,572,445. Particulars of this scheme, where applicable, are included in the tables of the combined waterworks in (ii) above. During 1957-58, the water used from the system between Hanson and Whyalla amounted to 2,807 million gallons. Revenue for the year 1957-58 was £324,065, working expenses, etc., £286,299, interest charges, £183,902, and deficit, £46,136. Corresponding figures for 1956-57 were respectively £195,876, £175,519, £83,983 and £63,626.
- 5. Western Australia.—(i) General. The water supply, sewerage and drainage systems of Western Australia are principally under the management of two State Government Departments namely, the Metropolitan Water Supply, Sewerage and Drainage Department, having as its territory the metropolitan area centred on Perth and extending to Kwinana and Serpentine in the South, Marmion in the north and to Greenmount on the east, and the Public Works and Country Water Supply Department, which controls the Comprehensive Water Supply Scheme (covering the Goldfields and Agricultural Areas Water Supply and the Great Southern Towns Water Supply) as well as supplies, from local sources, to fifty country towns not included in the scheme. Both Departments are administered under the portfolio of Minister for Works and Water Supplies.
- (ii) Metropolitan Water Supply, Sewerage and Drainage. (a) General. The sources of the metropolitan water supply are the Canning Dam, the Churchman Brook Reservoir, the Victoria Reservoir, the Wungong Brook Diversion Weir and, since November, 1957, a pipehead dam (capacity 850 million gallons) on the Serpentine River. The supply from these sources is supplemented as necessary from a number of artesian bores and from a pipeline link with Mundaring Weir. The largest reservoir, the Canning Dam, has a capacity of 20,550 million gallons. Since the opening of the Serpentine pipehead dam, work has proceeded on the main Serpentine Reservoir designed to have an ultimate capacity of 39,000 million gallons, the estimated cost of the whole project being £9 million.

The sewage treatment works of Perth and suburbs consist of primary sedimentation with separate sludge digestion and discharge of all effluent direct to the ocean. Fremantle treatment works consists of septic tanks with ocean outfall for effluent. There are three treatment works, situated at West Subiaco, Swanbourne and Fremantle.

(b) Water Supply. The following table shows particulars of water supply services for 1938-39 and 1953-54 to 1957-58.

METROPOLITAN WATER SUPPLY, WESTERN AUSTRALIA: SERVICES.

	•		Esti-	Average	Total		ge Daily mption.	v	Number
Year.		Number of Services.	mated Popu- lation Supplied.	Daily Con- sumption.	Con- sumption for Year.	Per Service.	Per Head of Esti- mated Popu- lation.	Length of Mains.	of Meters.
1938-39	<u> </u>	61,467	248,248	Mill. gals. 14.1	Mill. gals. 5,147	Gallons. 229	Gallons. 56.8	Miles. 953	40,014
1953-54 1954-55 1955-56 1956-57 19 -58		102,093 108,755 113,437 118,230 122,159	323,131 367,429 380,294 393,596 407,376	34.9 38.2 39.5 41.0 47.5	12,743 13,948 14,408 14,982 17,337	342 351 348 355 394	108.0 104.0 103.5 106.2 118.4	1,500 1,597 1,709 1,792 1,891	73,780 78,194 82,636 83,151 85,896

Water rating for 1957-58 was 1s. 6d. in the £1 on annual valuation.

(c) Sewerage and Drainage. Some particulars of the metropolitan sewerage and drainage services for 1938-39 and 1953-54 to 1957-58 are shown below:—

METROPOLITAN SEWERAGE AND DRAINAGE, WESTERN AUSTRALIA: SERVICES.

	Year.				Estimated Population Served.	Length of Sewers.	Length of Stormwater Drains.
1938–39			••	36,652	162,457	Miles. 444	Miles.
1953-54				56,526	238,400	654	34
1954-55				58,543	232,000	675	34
1955-56				60,702	240,860	692	34
1956-57				62,282	246,900	709	37
1957-58				63,969	253,800	713	66

Sewerage rating for 1957-58 was 1s. 9d. in the £1 on annual valuation, while metropolitan main drainage rating was 4d.

(d) Finances. The following table shows particulars of the finances of the Western Australian Metropolitan Water Supply, Sewerage and Drainage Department for the years 1938-39 and 1953-54 to 1957-58:—

METROPOLITAN WATER SUPPLY AND SEWERAGE AND DRAINAGE, WESTERN AUSTRALIA: FINANCES. (£.)

	•				Expenditure.		
Service and	Year.	Capital Cost to 30th June.	Revenue.	Working Expenses.	Interest and Debt Redemp- tion.	Total.	Surplus(+) or Deficit(-),
Water Supply	/ -						
1938-39		4,898,167	285,313	50,975	228,527	279,502	+ 5,811
1953-54		9,874,822	811,500	408,714	380,729	789,443	+ 22,057
1954-55		11,255,210	946,922	498,254	428,169	926,423	+ 20,499
1955-56		12,267,020	1,080,601	560,776	484,164	1,044,940	+ 35,661
1956-57		13,672,321	1,153,737	548,832	598,102	1,146,934	+ 6,803
1957-58		15,283,093	1,260,873	617,755	658,876	1,276,631	- 15,758
Sewerage	and						
Drainage				J			
1938–39		3,497,938	174,950	30,630	149,714	180,344	- 5,394
1953-54		5,749,506	542,476	235,826	263,713	499,539	+ 42,937
1954-55		6,170,669	601,802	254,062	281,590	535,652	+ 66,150
1955-56		6,421,032	675,419	313,514	296,904	610,418	+ 65,001
1956-57		6,843,818	713,823	336,284	339,664	675,948	+ 37,875
1957-58		7,212,701	779,165	362,363	356:023	718,386	1 60,779

- (iii) Country Water Supplies Controlled by Public Works Department. (a) Comprehensive Water Supply Scheme. The Comprehensive Water Supply Scheme is under construction as the result of an agreement by which the cost of new works now estimated to be about £10 million, is shared by the Commonwealth and State Governments. The project consists of two main parts, a northern section, being an expansion of the Goldfields and Agricultural Areas Water Supply, to serve, when completed, over 4,000,000 acres of agricultural land and to augment supplies to the Eastern Goldfields, and a southern section, the Great Southern Towns Water Supply, designed to serve principally towns between Brookton and Katanning. Expenditure on the Scheme to 30th June, 1958, amounted to £6,618,037. The Goldfields and Agricultural Areas Supply, formerly known as the Goldfields Water Supply, is drawn from Mundaring Weir (capacity 15,154 million gallons), situated 26 miles from Perth and has a main conduit, with eight pumping stations, running eastwards some 350 miles to Kalgoorlie. Extensions link up with local catchment and conservation schemes, thereby increasing and guaranteeing the supply to the agricultural lands and the towns which they serve. Supplies for the Great Southern Towns are piped from Wellington Dam, on the Collie River, which is being enlarged ultimately to provide storage for 40,800 million gallons.
- (b) Other Schemes Supplying Country Towns. Fifty country towns are supplied by local schemes variously from stream flow, natural and artificial catchments, bores and wells. Forty-nine of these schemes, as well as the Goldfields and Agricultural Areas Water Supply and the Great Southern Towns Water Supply are administered under the provisions of the Country Areas Water Supply Act 1947-57. The Minister exercises under the Act powers of a Water Board in one additional town.
- (iv) Other Water Supplies. (a) Commonwealth and State Government Railways. Railways of the Commonwealth and State Governments make independent provision for supplies of water for their own purposes, although considerable additional quantities are consumed by the Railways from other sources e.g. Public Works and Metropolitan Water Supply Departments.
- (b) Local Water Boards. There are ten local Water Boards operating under the Water Boards Act, 1904-53.
- 6. Tasmania.—(i) Waterworks. At the end of 1957-58, there were 74 municipally operated waterworks in Tasmania. The capacity of the reservoirs was 1,750 million gallons, the estimated population served was 247,000 and the number of tenements served was 62,000. In addition, two regional schemes operated by the State Government were serving an estimated population of 30,000 in 7,500 tenements.
- (ii) Sewerage. At the end of 1957-58, there were 11 municipal sewerage schemes in operation in Tasmania. They served an estimated population of 160,000 and the number of tenements served was 41,000.

§ 6. Harbour Boards and Trusts.

Note.—The number and net tonnage of all vessels which entered the major ports in each State during the years 1956-57 and 1957-58 are shown in Chapter XIV.—Transport and Communication, Part I, Division A. §5. Shipping at Principal Ports. Particulars of oversea and interstate cargo discharged and shipped during 1957-58 are shown in Part I, Division A. §6 of the same chapter.

1. New South Wales.—(i) Maritime Services Board of New South Wales. (a) General. The Maritime Services Board of New South Wales is a corporate body of five Commissioners comprising three full-time members and two part-time members representing shipping and other interests. The Board was constituted on 1st February, 1936, under the Maritime Services Act 1935, to co-ordinate the port and navigation services of the State, which had previously been administered by the Sydney Harbour Trust and by the State Department of Navigation.

The Board exercises general control over intra-state shipping, including the survey and certification of vessels, the licensing of harbour craft, and the examination and issue of certificates to officers. It is responsible for the provision of pilotage services, lights, beacons, buoys and other port facilities, imposes and collects rates and charges on goods and vessels, and is vested with the general control and management of the navigable waters and ports within the State.

At the Port of Sydney, the Board is also responsible for the provision of adequate wharfage and channels, and carries out all construction, maintenance and dredging work. At other ports of New South Wales, such work is undertaken by the Department of Public Works.

(b) Port of Sydney. The entrance to Sydney Harbour, the principal port of New South Wales, is nearly a mile wide, and the depth of its navigable channel is not less than 80 feet. Between the entrance, known as "The Heads", and the Harbour proper, a distance of 4 miles, there are two separate channels, each 700 feet wide, the Western Channel not less than 42 feet deep (low water ordinary spring tide) and the Eastern Channel 41 feet deep. The foreshores, which have been reduced by reclamations, are 152 miles in length and the total area of the port is 13,600 acres, or 21 square miles, of which about one-half has a depth of 30 feet or more at low water ordinary spring tide. The mean range of tides is 3 feet 6 inches.

The wharves are situated in close proximity to the business centre of the city, about four or five miles from the Heads. At present, there are 6 dolphin berths each 550 feet long, and 105 effective commercial cargo berths with a total length of 48,838 feet controlled by the Board. Accommodation for harbour craft amounts to 4,640 feet while the length of other berths including oil and private wharves totals 32,620 feet. Depth of water at wharves is up to 40 feet. Special facilities for the storage and handling of staple products such as wheat, wool, etc., are provided and modern plant has been installed for replenishing ships' bunkers with oil or coal.

Docking facilities are available for the largest vessel afloat. The Captain Cook Graving Dock, opened in March, 1945, ranks amongst the largest graving docks in the world being 1,133 feet by 147 feet $7\frac{1}{2}$ inches with a depth of 45 feet 2 inches over the sill at high water. There are also several smaller dry docks and floating docks in the port.

The following table shows particulars of the finances of the Board in respect of the Port of Sydney for 1938-39 and 1952-53 to 1956-57:—

MARITIME SERVICES BOARD: FINANCES OF THE PORT OF SYDNEY.
(£.)

			Revenue.			Expenditure	•	
Year.	at 30th Tranship-		Tonnage Rates and Berthing Charges.	Total.	Adminis- tration and Mainten- ance.	Interest, Debt Redemption, Exchange, etc.	Total.	Surplus(+) or Deficit(-).
1938-39	11,276,399	773,501	38,180	1,155,627	380,120	536,781	916,901	+ 238,726
1952-53 1953-54 1954-55 1955-56 1956-57	12,562,700 12,799,104 13,408,326 13,775,278 14,041,252	971,553 1,482,492 1,814,226 1,688,743 1,725,590	254,637 333,320 515,480 459,783 385,006	2,021,121 2,471,540 3,093,315 3,042,924 2,887,506	1,529,050 1,517,811 1,735,504 1,740,698 1,857,539	546,590 550,654 593,478 644,783 722,373	2,075,640 2,318,465 2,978,982 2,910,481 2,869,912	- 54,519 + 153,075 + 114,333 + 132,443 + 17,594

(a) Excludes capital expenditure but includes transfers to the Renewals Fund Reserve Account 1953-54, £250,000; 1954-55, £650,000; 1955-56, £525,000; and 1956-57, £299,000.

Capital expenditure for each of the years 1938-39 and 1952-53 to 1956-57 was £496,489, £468,026, £473,516, £599,752, £553,329 and £716,597 respectively. Expenditure on renewals and replacements from the Renewals Fund Reserve Account was: 1952-53, £299,286; 1953-54, £317,493; 1954-55, £306,542; 1955-56, £630,537 and 1956-57, £684,210

- (c) Port of Newcastle. The Maritime Services Board of New South Wales is the port authority but other government bodies are responsible for certain functions and activities of a maritime character at Newcastle. These include—
 - (i) The Department of Public Works, which is the constructing, dredging and maintenance authority at Newcastle as well as at other New South Wales ports except Sydney;
 - (ii) The Department of Railways, which is responsible for the control of wharfage and shipping arrangements in connexion with the coal industry and the provision and maintenance of appliances necessary for the transport and shipment of coal.

An Advisory Committee consisting of eight members, appointed by the Governor, assists the Board in matters associated with the operation of the port. It is primarily a coal-loading port, and the proximity to the coal fields has led to the establishment of important industries, including iron and steel works, in the district. Facilities are available for the shipment of wool, wheat and frozen meat, and a wharf is available for timber.

The area used by shipping is about 570 acres, excluding the entrance to the harbour and the inner basin, which together cover an area of 162 acres. The width of the harbour at the entrance is 1,200 feet, and the navigable channel, with a depth of 25 feet 6 inches at low water, is 350 feet wide. Wharfage accommodation amounts to 16,840 feet, the Maritime Services Board controlling 7,230 feet and the Railways Department 5,810 feet while 3,800 feet is privately owned. There are also several dolphin berths available for tie-up purposes. A floating dock of 15,000 tons capacity is available at the port.

- (d) Port Kembla. As from 3rd May, 1948, the Maritime Services Board assumed the administration and navigational control of Port Kembla, which had previously been administered by the New South Wales Department of Public Works. The Department, however, continues to be the constructing authority in respect of works, dredging and maintenance. An Advisory Committee consisting of seven members appointed by the Governor has been formed to assist the Board in the operation of the Port. It has an area of approximately 330 acres, with depths ranging from 20 to 50 feet (low water ordinary spring tide), and wharfage accommodation totalling 4,800 feet has been provided for large ocean-going vessels. No cargo sheds are available as the nature of trade at the port does not call for the provision of sheltered storage accommodation at the berths. It is the port of the southern coalfields and for the expanding industrial area in and about Wollongong. The developmental programme for Port Kembla includes the construction of an inner harbour to provide wharfage for the steelworks in addition to general cargo berths.
- (e) Botany Bay. The Maritime Services Board of New South Wales is the administrative and controlling authority. The port is primarily a discharging centre for the oil refinery at Kurnell and two berths are available as well as tanker mooring buoys. The entrance to the Bay is approximately 1½ miles wide, with a minimum depth of about 36 feet.
- (f) Other Ports. In addition to the ports of Sydney, Newcastle, Port Kembla and Botany Bay, the Board controls 28 outports along the coastline of 609 miles. The shipping trade of these outports is relatively small.
- (ii) Port Charges. The port charges payable in respect of shipping and ships' cargoes in New South Wales are imposed by the Commonwealth Government in terms of the Lighthouses Act and the Navigation Act, and by the State authorities under the Navigation Act of New South Wales, the Harbour and Tonnage Rates Act, and the Sydney Harbour Trust Act. Since 1st February, 1936, the State enactments have been administered by the Maritime Services Board. The gross collections by the State authorities amounted to £5,096,853 in 1956-57. These figures include the Port of Sydney revenue (see table on p. 722) and State navigation service collections (£2,209,347 in 1956-57). Commonwealth Government revenue from light dues and navigation receipts, for the whole of Australia, amounted to £451,493 in 1956-57.
- 2. Victoria.—(i) Melbourne Harbor Trust. (a) General. Information regarding the origin and constitution of this Trust, which controls the Port of Melbourne, appears in Official Year Book No. 12, page 970 et seq. The membership of the Board of the Melbourne Harbor Trust Commissioners was increased to five during 1954 by the appointment of a further part-time Commissioner to represent waterside workers' interests. At 31st December, 1957, the sheds available for wharfage accommodation had a length of 21,579 feet, covering an area of 1,561,162 square feet. The area of water in Port Philip Bay and the River Yarra under the control of the Trust is approximately 5,327 acres and the total length of wharves, piers and jetties in the port is 66,083 feet, giving an area of over 63 acres of wharfage, and 58,170 feet of effective berthing space. During 1957, work was continued on the new berths at Appleton Dock (ultimately to have eighteen berths), Victoria Docks, South Wharf and Williamstown. The depth of water (low water ordinary spring tide) from the main channels to the principal wharves is about 31 to 34 feet, the maximum being about 40 feet.
- (b) Finances. The following table shows particulars of the financial operations of the Trust during the years 1939 and 1953 to 1957.

MELBOURNE HARBOR TRUST: FINANCES.

(£.)

		Gross	Reve	enue.		Expen	diture.		
Ye	ar.	Loan Indebted- ness at 31st Decem- ber.	Wharf- age and Tonnage Rates.	Total.	Adminis- tration and Mainten- ance.	Interest, Debt Redemption, Exchange, etc.	Depreciation, Renewals and Insurance Account.	Total,	Surplus (+) or Deficit (-).
1939		4,018,527	689,100	843,899	282,533	270,650	129,160	837.577	+ 6,322
1939	• • •	4,010,327	005,100	043,022	202,333	270,030	129,100	111,160	T 0,322
1953		9,581,933	1,423,345	2,052,272	1,230,195	381,914	98,182	2,013,554	+ 38,718
1954		9,641,361	1,800,811	2,593,347	1,232,574	418,818	479,393	2,509,947	+ 83,400
1955		9,978,842	2,120,780	3,019,048	1,475,467	446,348	532,372	2,906,406	+112,642
1956		11,296,811	1,841,176	2,676,698	1,649,047	483,905	145,825	2,662,047	+ 14,651
1957		12,175,428	1,882,501	2,746,513	1,557,933	520,223	250,938	2,718,159	+ 28,354

(a) Includes statutory payments to Consolidated Revenue and Geelong Harbor Trust:—1939 £155,234; 1953, £303,263; 1954, £379,162; 1955, £452,219; 1956, £383,270, 1957, £389,065; Excludes capital expenditure:—1939, £128,567; 1953, £1,255,613; 1954, £1,255,625; 1955, £1,509,665; 1956, £1,609,928; 1957, £1,054,236,

(ii) Geelong Harbor Trust. The Geelong Harbor Trust, which was constituted in 1905, was reconstituted in 1934 under the provisions of the Melbourne and Geelong Harbor Trusts Act 1934. The Trust is under the control of three Commissioners appointed by the Governor-in-Council. At 31st December, 1956, the minimum depth of all berths (except Yarra Pier 29 feet) was 32 feet low water. Further dredging, to a minimum depth of 36 feet low water at Refinery Pier, is due for completion in 1958.

Revenue for the year 1957 was £905,111, and revenue expenditure was £530,939. The value of the Trust's fixed assets less depreciation was £5,431,089 and £6,824,364 at 31st December, 1956 and 1957, respectively. Loans outstanding at the end of 1957 amounted to £2,889,365.

- (iii) Other Ports. Apart from Melbourne and Geelong, Portland is the only Victorian port of other than minor importance.
- 3. Queensland.—(i) General. The ports of Queensland, except Brisbane and certain minor ports, are administered by Harbour Boards with members representing the towns and districts served by the ports. Brisbane and the minor ports are controlled by the State Treasury through the Department of Harbours and Marine, which supervises the engineering activities of the other ports.
- (ii) Brisbane. Brisbane accommodates comfortably, in its dredged and improved river, the largest vessels in the Australian trade. The main centres for shipping, although further downstream than formerly. because of the increasing size of vessels, are still within easy access of the city. Adequate dry-docking facilities are available. The finances of Brisbane Harbour for the years 1938-39 and 1952-53 to 1956-57 are shown below:—

BRISBANE HARBOUR: FINANCES. (£'000.)

				Recei	pts.	Payments.		
	Year.		Loan Indebtedness at 30th June.	Harbour Dues.	Total.	Working Expenses.(a)	Total	
1938-39			1,179	165	173	36	112	
1952-53			2,168	318	393	426	558	
1953-54			2,528	603	753	460	611	
1954-55		٠.	2,633	688	853	522	693	
1955-56			2,899	701	817	582	772	
1956-57			3,011	671	918	843	1,048	

(a) Excludes Interest and Redemption.

In addition to Brisbane Harbour, the Department of Harbours and Marine also controls the Brisbane Dry Dock, the Cairneross Dock, the Brisbane River, and ten smaller harbours not administered by harbour boards.

(iii) Harbour Boards. Harbour boards control the ports of Bowen, Bundaberg, Cairns, Gladstone, Mackay, Rockhampton and Townsville. From 1st January, 1953, the harbour boards adopted the financial year ended 30th June for accounting purposes instead of the calendar year as previously. Finances for each port for the year ended 30th June, 1957, are shown below, together with a summary for the years 1939 and 1952, for the period of eighteen months ended 30th June, 1954 and for the years ended 30th June, 1955 and 1956.

HARBOUR BOARDS, QUEENSLAND: FINANCES.

(£.) Expenditure Revenue. (excluding Loan). Loan Indebted-Total Surplus(+) ness Harbour Board. (including or Deficit(-). at 30th Wharf-Interest Working June. age and Total. and Redemp-(a) Harbour Expenses. Dues. tion), (b) Bowen 387,873 47,271 62,059 27,491 57,663 + 4,396 2,543 Bundaberg 340,403 3,042 23,766 17,213 21,223 +192,211 250,660 169,558 Cairns 220,040 226,674 6,634 . . 519,123 32,997 83,608 65,750 99.594 Gladstone 15,986 . . Mackay 1.061.832 191,445 227,798 61.970 434,819 - 207,021 . . Rockhampton 530,250 62,339 74,362 45,257 80,217 -5,855 . . 477,194 Townsville 251,126 314,353 168,367 250,338 +64,015 Total, 1956-57 ... 3,567,335 757,778 1,005,986 578,259 1,170,528 - 164,5421955-56 2,885,528 720,642 955,846 512,776 1,361,568 - 405,722,, 996,604 + 112,0091954-55 2.807.527 766,504 1,108,613 530,541 ,, . . 1954(c) 1.167.936 + 245.9582,713,679 955,464 1,413,894 789,346 . . •• 1952 2,059,080 455,677 713,312 440,784 696,843 + 16,4691939 401,439 1,548,144 249,510 139,752 343,083 + 58,356

(a) Years 1939 and 1952, 31st December. (b) Includes expenditure on capital works from accumulated revenue. (c) Eighteen months ended 30th June, 1954.

4. South Australia.—The South Australian Harbors Board. All South Australian harbours are controlled by the The South Australian Harbors Board, which consists of three Commissioners appointed by the Governor for a period of five years and eligible for reappointment. The Board is responsible to the Minister of Marine for the discharge of its duties and functions. The most important ports are the five deep sea ports of Port Adelaide, Port Pirie, Wallaroo, Port Lincoln and Thevenard. At a few ports, the wharves or jetties are privately controlled, the principal of these being Whyalla (controlled by the Broken Hill Pty. Co. Ltd. under a Private Act of Parliament), Ardrossan where the Broken Hill Pty. Co. Ltd. has installed a bulk loading plant for handling dolomite, grain and salt, and Rapid Bay which is also controlled by the Broken Hill Pty. Co. Ltd. Port Augusta is controlled by the Commonwealth Railways on behalf of the Commonwealth Government. Maximum depths of water (low water ordinary spring tide) at the wharves of the main ports range from 20 to 24 feet at Port Pirie to 35 feet at Port Adelaide (Outer Harbour). The following table shows the finances of the Board for 1938–39 and 1953–54 to 1957–58:—

THE SOUTH AUSTRALIAN HARBORS BOARD: FINANCES.
(£.)

Year.		Capital	Revenue.	Expenditure from Revenue.				Surplus(+)
		30th June.		Working Expenses.	Interest.	Debt Redemp- tion.	Total.	or Deficit(-).
1938-39	•••	8,026,441	664,915	205,848	326,719	50,000	582,567	+ 82,348
1953-54		10,782,702	1,382,276	1,280,709	312,333		1,593,042	- 210,766
1954-55		11,604,213	1,842,796	1,315,349	352,005		1,667,354	+175,442
1955-56		12,366,653	1,920,340	1,451,296	404,188		1,855,484	+ 64,856
1956-57		13,232,185	2,112,718	1,427,882	434,042		1,861,924	+250,794
1957-58		14,189,715	2.119.826	1,487,014	505,322			+ 127.490

5. Western Australia.—(i) Fremantle Harbour Trust. Fremantle Harbour is controlled by a board of five Commissioners appointed by the Government. The Inner Harbour has a maximum water depth of 36 feet at the entrance and 34 feet at the wharf face. Wharf berth accommodation is 11,148 feet. The Outer Harbour consists of various sections south of the Inner Harbour with jetty facilities including the Kwinana Oil Refinery jetties which are approached through the Success and Parmelia Channels each 500 feet wide and 38 feet deep. The depth of water at the berths is a minimum of 44 feet.

Gross earnings for the years 1956-57 and 1957-58 amounted to £2,515,118 and £2,577,755 respectively, working expenses to £2,031,368 and £2,017,798, interest charges to £209,519 and £216,839, debt redemption to £55,806 and £59,414 and renewals fund to £2,000 each year. Special loan redemptions were £213,432 and £246,002 and net capital totalled £6,411,752 and £6,813,243.

- (ii) Albany Harbour Board. The Albany Harbour is controlled by a board of five members appointed by the Government. The depth of water in the Harbour is 30 feet but dredging to accomplish a water depth of 34 feet is nearing completion. Wharf accommodation consists of 1,115 feet and in addition the Deepwater Jetty has 2,500 feet of accommodation. Gross earnings for the years 1956-57 and 1957-58 amounted to £92,431 and £103,573 respectively, working expenses £48,487 and £50,196, interest and sinking fund charges, £19,650 and £81,648, and amounts debited to loan capital account, £1,652,461 and £1,687,144. (Prior to 1957-58, interest on loan capital for uncompleted works was charged against the asset values and capitalized. During 1957-58, however, the wharf construction was completed and the total interest was charged against revenue for the first time. This accounts for the large increase between 1956-57 and 1957-58.)
- (iii) Bunbury Harbour Board. The Bunbury Harbour is controlled by a board of five members appointed by the Government. The depth of water in the Harbour is 30 feet and berthing accommodation is 3,700 feet. Gross earnings for the years 1956-57 and 1957-58 amounted to £47,338 and £73,811 respectively, working expenses £39,197 and £60,239, interest and sinking fund charges £32,719 and £35,440, and amounts debited to loan capital account, £1,521,691 and £1,593,176.
- (iv) Other Ports. The following ports are controlled by the State Government Harbour and Lights Department:—Geraldton, Yampi, Port Hedland, Carnarvon, Wyndham, Derby, Point Samson, Busselton, Onslow and Broome. The Port of Esperance is under the control of the Railways Commission.
- 6. Tasmania.—There are eight marine boards and two harbour trusts in Tasmania. The marine boards control the ports of Hobart, Launceston, Stanley (Circular Head) Burnie and Wynyard (Table Cape), Devonport, Strahan, Currie (King Island), and Whitemark (Flinders Island) and the harbour trusts those of Smithton and Leven. Aggregate receipts of revenue accounts of all these authorities during the year 1956-57 were £1,161,567, and expenditures £1,106,427 including loan charges £220,634. The total receipts of the Hobart Marine Board during 1956-57 were £495,330, loan charges amounted to £65,113 and total expenditure to £547,314. Launceston Marine Board receipts during 1956-57 amounted to £296,388, loan charges to £23,423 and total expenditure to £222,458. Loan indebtedness of all marine boards and trusts at 30th June, 1957, was £2,710,491, of which £874,242 was in respect of Hobart and £313,595 in respect of Launceston.

Hobart, Launceston, Burnie and Devonport are the principal ports of Tasmania. In addition to their interstate and intra-state traffic, there is also considerable oversea shipping. Depths of water at wharves vary, in general between 16 and 34 feet (low water ordinary spring tide), but at Hobart there is a depth of water of from 30 to 52 feet.

§ 7. Fire Brigades.

1. New South Wales.—A Board of Fire Commissioners, consisting of five members, one appointed by the State Government, (President), and one each representing insurance companies, local government authorities, volunteer firemen and permanent firemen, operates under the Fire Brigades Act 1909–1958, and 156 fire districts had been constituted at the end of 1957. Up to the end of 1949, the cost of maintenance of fire brigades was borne in proportions of one quarter, one quarter, and one half respectively by the Government, the municipalities, and the insurance companies concerned, and the expenditure was so regulated that the proportion payable by the councils in a fire district should not, except in special circumstances, exceed the amount obtainable from \(\frac{1}{2}\)d. in the \(\frac{1}{2}\)1 rate on the unimproved capital value of ratable land in the fire district. In June, 1949, legislation was introduced (i) increasing the

limit of the Board's borrowing power from £250,000 to £500,000, (ii) providing for the varying of the maximum rate that may be levied by councils and (iii) altering the basis of contributions so that from 1st January, 1950, local councils and the Government will each pay one-eighth and the insurance companies three-quarters. Legislation assented to on 31st March, 1958, increased the limit of the Board's borrowing power to £1,000,000, provided for the contributions payable by insurance companies to be assessed on premiums received in the State as a whole, and provided for appeals by insurance companies against assessments in certain cases

Other legislation, introduced in September, 1949, to improve and modernize the law dealing with the prevention of bush fires and to build up the organization of the bush fire-fighting services, provided for the establishment of Fire Regions and a Bush Fire Fighting Fund to be financed from contributions by the Government, councils and insurance companies in the proportion of one-quarter, one-quarter and one-half, respectively. The contribution of any council shall not exceed one-twentieth of a penny in the £1 on the unimproved capital value of ratable land in the area of the council not being land within a fire district constituted under the Fire Brigades Act 1908–1958. At 30th June, 1958, Volunteer Brigades numbered 2,000 with an active membership in excess of 60,000 persons. Up to 30th June, 1958, expenditure from the Fund for equipment amounted to £934,500.

At 31st December, 1957, the authorized strength of the Fire Brigade throughout the fire districts of New South Wates was 363 officers and 1,046 permanent and 2,572 volunteer firemen. Corresponding figures for the Sydney Fire District were 301, 982 and 355. The revenue for the year 1957 was £2,425,795, made up as follows:—From the Government, £301,130, municipalities and shires, £301,130; fire insurance companies and firms, £1,806,780; and from other sources, £16,755. The disbursements for the year were £2,608,250.

- 2. Victoria.—(i) General. The Fire Brigades Act of 1928 provided for a Metropolitan Fire Brigades Board and a Country Fire Brigades Board each consisting of nine members. In December, 1944, the latter Board was superseded by the Country Fire Authority under an Act of that title, and the number of members was increased to ten. In December, 1954, the number of members of the Metropolitan Fire Brigades Board was increased from nine to ten to include an employees' representative.
- (ii) Metropolitan Fire Brigades Board. Since 1st October, 1952, the Metropolitan Fire Brigades Board has received contributions from the municipalities and the insurance companies in the proportion of one-third and two-fhirds respectively. Prior to 1st October, 1952, the Board received contributions in equal proportions from the Treasury, the municipalities and the insurance companies. On 30th June, 1957, the Board had under its control 42 stations, 773 permanent staff, 184 special service and clerical, etc., staff, and 14 part-time firemen. The total receipts for 1956-57 were £1,421,037 comprising contributions, £1,181,358, receipts for services, £121,907 and interest and sundries, £117,772. The expenditure was £1,309,768.
- (iii) Country Fire Authority. This authority, constituted in 1944, is responsible for the prevention and suppression of fires in the "country area of Victoria", which embraces the whole of the State outside the metropolitan fire district, excluding State forests and certain crown lands. The country area has been divided into 24 fire control regions, three of which (Ballarat, Bendigo and Geelong) are wholly urban and the remainder mixed urban and rural. The Country Fire Authority has received contributions in the proportion of two-thirds from insurance companies and one-third from the Treasury as from 1st January, 1954. Prior to that date the Treasury contributed two-thirds while the insurance companies contributed one-third. At 30th June, 1957, the Act applied to 182 insurance companies, 200 urban and 1,026 rural fire brigades. The effective registered strength of the brigades was 98,402 members.

Income for the year 1956-57 amounted to £454,786. Total expenditure other than loan amounted to £426,717.

- 3. Queensland.—(i) General. Fire Districts are constituted under the Acts of 1920–1956. For each district, there must be a Fire Brigades Board consisting of seven members, and the cost of maintenance of each brigade, following the 1956 amendment of the Act which increased the share of the insurance companies, is proportioned as follows:—The Treasury one-seventh, insurance companies five-sevenths, and local authorities one-seventh.
- (ii) Fire Brigade Boards. At 30th June, 1957, there were 73 Fire Brigade Boards. The total number of stations was 129 and full-time staff numbered 683, including 17 administrative, 144 officers and 522 firemen. Volunteers numbered 393. Part-time staff numbered 621 including 71 administrative, 100 officers and 450 firemen. The total revenue

for the year 1956-57 was £927,494, received mainly from the following sources:—Government £159,230, local authorities £159,577, insurance companies £572,555. Loan receipts (Government and other) were £113,128. The total expenditure for the year was £867,243, the chief items being salaries and wages £648,710 and interest and redemption of loans £45,250.

4. South Australia.—The Fire Brigades Act 1936-1944 provides for a board of five members, and the expenses and maintenance of brigades are defrayed in the proportion of two-ninths by the Treasury (subject to certain limits when the contribution exceeds £10,000), five-ninths by insurance companies, and two-ninths by the municipalities concerned. At 30th June, 1958, there were altogether 35 fire brigade stations, of which 12 were metropolitan and 23 country.

The authorized strength of the permanent staff was 385, including 272 officers and men and 87 country auxiliary firemen. The total revenue for the year 1957-58 was £391,607, including contributions of £342,000 made up as follows:—insurance companies £205,950, Treasury £53,670 and municipalities £82,380. The Treasury contribution includes an additional grant of £41,500.

5. Western Australia.—In 1942, certain municipal and road board districts were constituted fire districts under the control of the Western Australian Fire Brigades Board. There were 35 fire districts at 30th September, 1957. The contribution to the Board is made in the proportion of two-ninths from the Government, two-ninths from local government authorities, and five-ninths from insurance companies. The number of local government authorities and insurance companies who contributed numbered 57 and 143 respectively. The brigades throughout the State controlled by the Western Australian Fire Brigades Board at 30th September, 1957, numbered 53, with a staff of 1,580 including 255 permanent officers and firemen and 1,292 volunteer brigade officers and firemen. The revenue for the year ended 30th September, 1957, was £384,457 and the expenditure £385,372.

Under the Bush Fires Act, a Bush Fires Board (appointed April 1955 and superseding the Rural Fires Prevention Advisory Committee) consisting of ten members, five of whom are nominated by the Road Board Association, was set up to advise the Minister for Lands on bush fire control. The Act also provides for the registration of bush fire control officers, who numbered 1,157 at 30th June, 1957, and the establishment of bush fire brigades, the number of which was 654 at 30th June, 1957. Many individual brigades are large organizations with numerous self-contained sections.

6. Tasmania.—The Fire Brigades Act 1945 provided for the creation of the Fire Brigades Commission of Tasmania to co-ordinate the activities of existing fire brigades boards, while leaving the responsibility for individual control and management with the boards. The Commission consists of five members nominated or elected by the fire brigades boards and one member nominated by the Minister. Contributions towards the cost of operations are on the basis of one-third each from the Treasury, the municipalities, and the insurance companies concerned. The cost for the year 1956-57 amounted to £138,000. There were at 30th June, 1957, 23 brigades controlling 33 stations and their aggregate staffs numbered 509, including 86 permanent officers and 423 part-time firemen, including officers.