CHAPTER V.

TRANSPORT AND COMMUNICATION.

A. SHIPPING.

§ 1. System of Record.

In the system of recording statistics of oversea shipping, Australia is considered as a unit, and, therefore, only one entry and one clearance is counted for each voyage, without regard to the number of States visited (see also Section 5 following, paragraph 1).

On the arrival at, or departure from, a port in Australia, whether from or for an oversea country or from another port in Australia, the master or agent must "enter" the vessel with the Customs authorities at the port, and supply certain prescribed information in regard to the ship, passengers and cargo. At the end of each month the information so obtained is forwarded to this Bureau. This arrangement has been in operation since 1st July, 1924.

The volume of the vessel, as distinct from the cargo it carries, is recorded in net tons, i.e., the gross tonnage or internal cubic capacity less certain deductions on account of crew spaces, engine room, water ballast and other spaces not used for passengers or cargo. It is thus a rough measure of the capacity of the vessel for cargo or passengers. The unit of measurement is the ton register of 100 cubic feet.

Cargo is recorded in tons weight or in tons measurement (40 cubic feet).

From 1st July, 1914 the Trade and Shipping of Australia have been recorded for the fiscal years ending 30th June.

Particulars of vessels exclusively engaged in transporting troops and war materials during the 1939-45 War years are excluded from the following tables of "oversea" and "interstate" shipping movement which, therefore, relate only to vessels engaged in normal trade (i.e., carrying part or full cargo for civil purposes), and are strictly comparable with pre-war and post-war figures.

§ 2. Oversea Shipping.

1. Total Movement.—The following table shows the number of entrances and clearances combined of oversea vessels at Australian ports, and the aggregate net tonnage, during each of the years 1921-22 to 1950-51:—

OVERSEA SHIPPING: ENTRANCES AND CLEARANCES (COMBINED) OF VESSELS DIRECT, AUSTRALIA.

| Year. | Vessels. | Net Tons. | Year. | Vessels. | Net Tons. | Year. | Vessels. | Net Tons. |
|--|--|--|--|--|---|--|--|---|
| 1921-22 1922-23 1923-24 1924-25 1925-26 1926-27 1927-28 1928-29 1929-30 1930-31 | 3,111 2,935 3,122 3,449 3,156 3,261 3,167 3,175 3,061 3,107 | °000. 9,081 9,241 9,923 11,201 10,669 11,164 10,925 11,097 10,944 11,250 | 1931-32 1932-33 1933-34 1934-35 1935-36 1936-37 1937-38 1938-39 1939-40 1940-41 | 3.057 3,114 2,774 3,139 3,260 3,297 3,809 3,814 3,362 2,669 | °000. 11,396 11,842 10,764 11,889 12,545 12,612 14,221 13,546 13,076 11,268 | 1941-42 1942-43 1943-44 1944-45 1945-46 1946-47 1947-48 1948-49 1949-50 1950-51 | 2,554 2,025 2,380 2,147 2,371 2,489 2,949 3,486 3,907 3,903 | '000. 10,768 8,113 9,687 9,133 10,693 10,496 11,928 15,013 17,378 |

The average tonnage per vessel has risen from 2,919 tons per vessel in 1921-22 to 4,449 tons in 1949-50 and 4,434 tons in 1950-51.

Particulars of the total oversea movement of shipping for each year from 1822 to 1920-21 will be found in Official Year Book No. 15, p. 507.

2. Total Oversea Shipping, States.—The following table shows, for each State, the number of entrances and clearances of vessels direct from and to oversea countries, and the aggregate net tonnage. during the year 1950-51:—

OVERSEA SHIPPING: ENTRANCES AND CLEARANCES OF VESSELS DIRECT, STATES, 1950-51.

| | | i | Entr | ances. | Clear | ances. |
|---|---------------------|---|---------------------------------|---|---------------------------------|--|
| State or Terr | State of Territory. | | | | Number. | Net Tons |
| New South Wales Victoria Queensland South Australia Western Australia | | ; | 498 426 253 160 532 | °,000. 2,087 1,945 840 694 2,880 | 481 347 354 163 610 | '000. 1,983 1,599 1,217 692 3,039 |
| Tasmania Northern Territory Australia | | : | 30 12 | 127 27 8,600 | 29 8 | 159 18 8,707 |

3. Shipping Communication with various Countries.—Records of the number and tonnage of vessels arriving from and departing to particular countries, as they are invariably made, may be misleading for the reason that the tonnage of a vessel can be recorded against one country only, notwithstanding that the same vessel on the same voyage may carry cargo or passengers to or from Australia from or to several countries. For instance, a mail steamer on a voyage from the United Kingdom to Australia, through the Suez Canal, may call at Marseilles, Genoa, Port Said, Aden and Colombo, yet can be credited only to the United Kingdom, the country where the voyage commenced, to the exclusion of all of the others from the records. Also a number of vessels touch at New Zealand ports on their voyages to and from the United States of America and Canada, but their tonnages are not included in the records of Australian shipping trade with New Zealand. Similarly, the record of shipping engaged in trade between Australia and the United Kingdom via South African ports does not show tonnage to and from South Africa, the whole of it being included in the figures for United Kingdom. In view of this defect, statistics relating to the direction of the shipping to and from Australia are restricted to the following tables in which countries situated on the main trade routes are grouped together. This grouping into larger geographical divisions to some extent avoids the limitations referred to, except, as already pointed out, in the case of Africa and New Zealand.

OVERSEA SHIPPING: COUNTRY GROUPS FROM WHICH ENTERED OR TO WHICH CLEARED, AUSTRALIA.

| | | , | | | | | |
|--------------------------|---------------------------------|----------|----------|----------|----------|----------|---------|
| Countries. | With Cargo or in Ballast, | 1938–39. | 1946-47. | 1947–48. | 1948-49. | 1949–50. | 1950–51 |
| | NET TON | nage Ei | NTERED | ('000). | | | |
| United Kingdom and | | 1,878 | 943 | 1,130 | 2,060 | 3,252 | 3,393 |
| European Countries) | Ballast | 121 | 2 | 6 | 45 | 77 | 10 |
| New Zealand(a) ≺ | Cargo | 767 | 302 | 303 | 442 | 565 | 484 |
| ` ' (| Ballast | 242 | 224 | 223 | 128 | 197 | 204 |
| Asiatic Countries and | Cargo | 2,206 | 1,984 | 2,288 | 2,778 | 3,250 | 3,402 |
| Pacific Islands | Ballast | 256 | 426 | 933 | 928 | 429 | 179 |
| Africa(a) | Cargo | 44 | 370 | 273 | 236 | 277 | 308 |
| ,,, | Ballast | 123 | 47 | 88 | 133 | 33 | 4 |
| North and Central \int | Cargo | 1,059 | 861 | 823 | 693 | 602 | 582 |
| America | Ballast | | 1 | 3 | 10 | 8 | 3 |
| South America | Cargo | 10 | 26 | 11 | 21 | 26 | 31 |
| South America | Ballast | 5 | | 2 | 2 |] | • • |
| Total | Cargo | 5,964 | 4,486 | 4,828 | 6,230 | 7,972 | 8,200 |
| 10191 | Ballast | 747 | 700 | 1,255 | 1,246 | 744 | 400 |
| Total Cargo and Ballast | | 6,711 | 5,186 | 6,083 | 7,476 | 8,716 | 8,600 |

NET TONNAGE CLEARED ('000).

| United Kingdom and | Cargo | 2,778 | 1,643 | 1,996 | 2,785 | 2,767 | 2,900 |
|-------------------------|---------|-------|-------|-------|-------|-------|-------|
| European Countries | Ballast | 13 | 17 | | 54 | 78 | 57 |
| New Zealand(a) | Cargo | 901 | 575 | 565 | 722 | 806 | 675 |
| ` ' | Ballast | 37 | 75 | 11 | 52 | 36 | 40 |
| Asiatic Countries and | Cargo | 1,687 | 1,387 | 1,601 | 1,786 | 2,032 | 1,848 |
| Pacific Islands | Ballast | 743 | 839 | 980 | 1,499 | 2,205 | 2,296 |
| Africa(a) | Cargo | 1.72 | 142 | 172 | 138 | 190 | 342 |
| , , | Ballast | 6 | 4 | 3 | 25 | 47 | 28 |
| North and Central | Cargo | 440 | 409 | 373 | 392 | 391 | 375 |
| America | Ballast | 46 | 108 | 144 | 79 | 83 | 117 |
| South America | Cargo | 12 | 9 | | 5 | 23 | 29 |
| Contail America | Ballast | | 12 | | ••- | 4 | • • • |
| M-4 1 | Cargo | 5,990 | 4,165 | 4,797 | 5,828 | 6,209 | 6,169 |
| Total | Ballast | 845 | 1,055 | 1,138 | 1,709 | 2,453 | 2,538 |
| Total Cargo and Ballast | | 6,835 | 5,220 | 5,845 | 7,537 | 8,662 | 8,707 |

⁽a) See explanation above.

^{4.} Nationality of Oversea Shipping.—Owing to war conditions, the proportion of shipping of British nationality progressively declined from 72.82 per cent. of the total tonnage entered in 1938-39 to 43.40 per cent. in 1943-44. On the other hand, the proportion of United States of America shipping visiting Australia during the same period advanced from 2.61 per cent. in 1938-39 to 33.07 per cent. in 1943-44. Thereafter the trend was reversed, and in 1950-51 the proportion of British shipping entered was 70.83 per cent. and of American 2.34 per cent.

Particulars of the nationality of oversea shipping which entered Australia during the five years ended 30th June, 1951 and the year 1938-39 are given in the following table:—

OVERSEA SHIPPING: ENTRANCES ACCORDING TO NATIONALITY OF VESSELS, AUSTRALIA.

('000 Net Tons.)

| Nationality. | | 1938-39. | 1946–47. | 1947-48. | 1948-49. | 1949-50. | 1950-51. |
|--------------------------------------|----------|----------------|----------------|----------------|----------------|-----------------|----------------|
| British | | | | | | | |
| Australian | • • | 331 | 153 | 86 | | 250 | 214 |
| Canadian | ٠. | 20 | 47 | 48 | 69 | [[] 4I | 26 |
| New Zealand | | 563 | 109 | 104 | 147 | 243 | 167 |
| United Kingdom | • • | 3,744 | 3,537 | 3,988 | 4,956 | 5,344 | 5,452 |
| Other British | •• | 229 | 107 | 202 | 123 | 183 | 232 |
| In Cargo In Ballast | •• | 4,379 508 | 3,420 533 | 3,588 840 | 4,592 921 | 5,559 502 | 5,781 310 |
| Total British Proportion of total | % | 4,887 72.82 | 3,953 76.22 | 4,428 72.79 | 5,513 73·74 | 6,061 69.54 | 6,091 70.83 |
| Foreign- | | | | | | | |
| American (U.S.) | | 175 | 437 | 571 | 356 | 466 | 201 |
| Danish | | 55 | 17 | 50 | | 143 | 154 |
| Dutch | | 291 | 225 | 244 | 269 | 286 | 326 |
| French | | 108 | 63 | 76 | | 129 | 115 |
| German | | 141 | | , | | | |
| Italian | | 68 | 15 | 9 | 162 | 161 | 192 |
| Japanese | | 330 | | | | | |
| Norwegian | | 325 | 218 | 206 | 489 | 690 | 665 |
| Swedish | | 124 | 119 | | 151 | 147 | 196 |
| Other Foreign | •• | 207 | 139 | 499 | 357 | 633 | 660 |
| In Cargo | | 1,585 | 1,066 | 1,240 | 1,638 | 2,413 | 2,419 |
| In Ballast | • • | 239 | 167 | 415 | 325 | 242 | 90 |
| Total Foreign | | 1,824 | 1,233 | 1,655 | 1,963 | 2,655 | 2,509 |
| Proportion of total | % | 27.18 | 23.78 | 27.21 | 26.26 | 30.46 | 29.17 |
| ALL NATIONALITIES- | | | 06 | . 0.0 | 6 00- | | 0 |
| In Cargo | ò. | 5,964 | 4,486 | 4,828 | 6,230 | | 8,200 |
| Proportion of total In Ballast | % | 88.87 | 86.50 | 79.37 | 83.33 | 91.46 | 95.35 |
| Proportion of total | <u>"</u> | 747 11.13 | 700 13.50 | 1,255 20.63 | 1,246 16.67 | 744 8.54 | 400 4.65 |
| Total, All Nationalit | ies | 6,711 | 5,186 | 6,083 | 7,476 | 8,716 | 8,600 |

The Australian tonnage which entered Australia from overseas during the year 1950-51 represented 2.49 per cent. of the total tonnage entered and was confined mainly to the New Zealand and Pacific Island trade.

The proportion of oversea shipping tonnage which entered Australia in cargo ranged, in the years shown, between about 80 per cent. and 95 per cent., the lowest percentage being 79.37 in 1947-48 and the highest 95.35 in 1950-51. The proportion of shipping which cleared in cargo, however, declined from 87.64 per cent. in 1938-39 to 70.85 per cent. in 1950-51, the trend over the period being generally downward.

§ 3. Shipping at Principal Ports.

1. Total Shipping, Australia.—The following table shows the total volume of shipping—oversea, interstate and coastwise—which entered the principal ports of Australia during the years 1947-48 to 1950-51 compared with 1938-39. Warships are excluded from the table.

TOTAL SHIPPING: ENTRANCES AT PRINCIPAL PORTS, AUSTRALIA.

| | 1938 | 3-39. | 194 | 7-48. | 1948 | 8-49. | 1949 | 9–50. | 1950 | -51. |
|---|--|--|---|---|---|--|---|---|---|---|
| Port of Entry. | Num- ber. | Net Tons ('000). | Num- ber. | Net Tons ('000). | Num- ber. | Net Tons ('000). | Num- ber. | Net Tons ('000). | Num- ber. | Net Tons ('000). |
| New South Wales—Sydney Newcastle Port Kembla | 7,384 4,273 850 | 11,650 5,099 1,225 | 3,750 2,320 351 | 6,225 3,430 928 | 4,142 2,367 335 | 7,590 3,411 757 | 3,927 2,119 403 | 8,149 3,190 971 | 4,038 2,179 538 | 8,222 2,958 1,582 |
| Victoria— Melbourne Geelong | 3,384 486 | 8,537 850 | 2,012 184 | 5,599 605 | 2,203 144 | 7,034 522 | 2,328 318 | 8,268 810 | 2,304 342 | 8,406 1.036 |
| Queensland— Brisbane Bowen Cairns Gladstone Mackay Rockhampton Thursday Island Townsville | 1,472 188 725 155 219 252 158 641 | 4,916 336 790 526 546 596 303 1.473 | 560 70 239 47 49 47 85 216 | 1,820 147 350 144 117 111 12 494 | 712 83 245 67 69 49 66 213 | 2,695 189 430 194 195 98 13 657 | 783 67 238 60 70 58 74 237 | 2,840 139 446 180 197 117 15 696 | 837 67 235 79 63 54 74 285 | 3,055 172 473 235 180 136 18 837 |
| South Australia— Adelaide Port Lincoln Port Pirie Wallaroo Whyalla | 2,988 438 619 281 680 | 5,524 493 815 220 1,037 | 2,595 440 301 224 476 | 3,319 537 730 193 1,137 | 2,939 428 286 224 332 | 4,129 561 742 238 837 | 2,686 353 268 239 373 | 4,843 449 642 210 1,033 | 2,735 292 261 300 408 | 4,872 405 644 229 1,144 |
| Western Australia— Fremantlo Albany Bunbury Carnarvon | 846 125 107 115 132 | 4,012 511 240 183 291 | 738 49 62 78 94 | 3,284 200 184 99 239 | 946 37 68 79 97 | 4,592 136 194 98 248 | 1,010 35 56 99 94 | 5,207 114 175 135 246 | 1,044 59 62 97 99 | 5,400 247 174 122 256 |
| Tasmania— Hobart Burnie Devonport Launceston | 616 577 492 460 | 1,153 781 476 502 | 293 163 183 290 | 223 | 303 163 175 308 | 565 257 215 273 | 279 196 217 324 | 646 268 211 282 | 318 190 202 330 | 684 240 211 313 |
| Northern Territory— Darwin | 176 | 184 | 33 | 55 | 28 | 49 | 42 | 65 | 33 | 58 |

2. Total Shipping—Australia, New Zealand and United Kingdom.—The following table shows the total shipping tonnage which entered the principal ports of Australia during 1950-51, and of New Zealand and the United Kingdom during 1951.

TOTAL SHIPPING: ENTRANCES AT PORTS, AUSTRALIA, NEW ZEALAND AND THE UNITED KINGDOM.

| | | | ., |
|---|------------------------------------|---|--------------------------------------|
| Port. | Net Tonnag Entere ('000). | d Port. | Net Tonnage Entered ('000). |
| AUSTRALIA— Melbourne (Vic.) Sydnev (N.S.W.) . Fremantle (W.A.) Adelaide (S.A.) | 8,4 8,2 5,4 4,8 | Liverpool (inc. Birkenhead) Southampton | 28,315 15,986 14,328 7,632 |
| Brisbane (Qld.) Newcastle (N.S.W.) Port Kembla (N.S.W.) Whyalla (S.A.) | 3,0 2,9 1,5 1,12 | 55 Hull | 5,494 5,037 4,659 4,068 |
| Geelong (Vic.) Townsville (Qld.). Hobart (Tas.) Port Pirie (S.A.) | r,o | • • • | 4,036 3,717 3,103 3,103 |
| Cairns (Qld.) Port Lincoln (S.A.) Launceston (Tas.) Geraldton (W.A.) | 47 | 73 05 13 56 | 3,7 3 |
| Albany (W.A.) Burnie (Tas.) Gladstone (Qld.) Wallaroo (S.A.) Devonport (Tas.) | 22 | 47 SCOTLAND 40 Glasgow | 6,061 |
| NEW ZEALAND— Wellington Auckland Lyttleton Dunedin | 3,07 2,00 1,82 | 00 24 | |
| Napier | 35 34 26 | | 6,000 |

§ 4. Vessels Built and Registered.

1. Vessels Built.—The following table shows the number and tonnage of vessels built in Australia during each of the calendar years 1938 and 1947 to 1951, so far as such information can be ascertained from the Shipping Registers of the various States. The Merchant Shipping Act, under which vessels are registered in Australia, does not, however, make it compulsory to register vessels under 15 tons burden if engaged in river or coastal trade. Larger vessels are also exempt from registration if not engaged in trade. Yachts and small trading vessels may be, and frequently are, registered at the request of the owners.

| VESSELS | RIHT | AND | REGISTERED | IN | AUSTRALIA |
|---------|------|-----|------------|----|-----------|
| | | | | | |

| | • | ! | Steam. | | | Motor.(a | 1) | | Sailing | | : | Total | |
|-------|-----|-------|--------|-------|-----|----------|-------|-----|----------------|------|-----|--------|--------|
| Yea | ır. | . 1 | Tonn | inge. | | Tonn | age. | | Tonn | age. | , , | Tont | nage. |
| | | No. | | | No. | | | No. | - 1 | | No. | | |
| | | ! | Gross. | Net. | | Gross. | Net. | | Gross. | Net. | | Gross. | Net. |
| | | | | | | | | - | | | | | |
| 1938 | | | | | 11 | 721 | 394 | | 1 | | 11 | 721 | . 394 |
| 1947 | | 5 | | | 25 | 1,426 | 912 | 8 | 296 | 296 | 38 | 17,822 | 9,599 |
| 1948 | | 3 | 14,583 | 8,604 | 9 | 1,376 | 741 | | | • • | 12 | 15,959 | 9,345 |
| 1949 | | 2 | | | 9 | 726 | 383 | | | • • | 11 | 10,399 | |
| 1950. | | 2 | 8,005 | 4,141 | 9 | 1.213 | 648 | | | • • | 11 | 9,218 | |
| 1951 | • • | 2 | 13,515 | 7,522 | 9 | 5,435 | 2,843 | | | •• | 11 | 18,950 | 10,365 |

(a) Includes vessels with auxiliary motors.

2. Vessels Registered.—The following table shows the number and net tonnage of steam, sailing and other vessels on the register of each State on the 31st December, 1951:—

VESSELS ON THE STATE REGISTERS, 31st DECEMBER, 1951.

| | Steam and Motor. | | | Sail | ing. | | Barges, Hulks. Dredges. | | | |
|---|------------------------------------|--------------------------------------|----------------------------|---------------------------------------|------------------------------------|----------------|----------------------------------|-----------------|--|---------------------------------------|
| State or Territory. | | | Propelled by Sail only. | | Fitted with Auxiliary Power. | | etc., not Self- propelled. | | Total. | |
| 4 - 1 | No. | Net Tons. | No. | Net Tons. | No. | Net Tons. | No. | Net Tons. | No. | Net Tons. |
| New South Wales Victoria Queensland South Australia Western Australia Tasmania Northern Territory | 422 186 83 85 68 39 | 167,347 26,658 32,461 6,460 | 47 63 15 211 | 570 1,172 307 3,169 1,458 | 73 47 60 36 50 74 | 1,872 1,298 | 33 42 12 38 4 1 | 17,063 1,536 | 657 322 218 174 333 158 | 186,499 30,201 40,473 11,278 |
| Australia | 883 | 306,902 | 525 | 11,932 | 349 | 8,735 | 130 | 33,329 | 1,887 | 360,898 |

3. World Shipping Tonnage.—Issues of the Official Year Book prior to No. 39 contained tables, compiled from Lloyd's Register of Shipping, showing the number and gross tonnage of steam, motor and sailing vessels owned by the various maritime countries of the world. The tables are not repeated in this issue, but the following information is derived from the same source. At 1st July, 1951, the total steamers, motorships and sailing vessels of 100 gross tons and upwards throughout the world amounted to 32,112 with a gross tonnage of 87,961,000. Of these totals, steamers numbered 18,873 for 63,809,000 gross tons, motorships, 12,353 for 23,436,000 gross tons and sailing vessels and barges 886 for 716,000 gross tons. In addition, there were 2,271 cil tankers of 1,000 gross tons and upwards with a gross tonnage of 18,210,000. Australian steamers, motorships and sailing vessels, 357 for 557,000 gross tons, constituted 1.11 per cent. and 0.63 per cent. respectively of the total numbers and tonnage. There were no Australian oil tankers of 1,000 gross tons and upwards registered.

§ 5. Interstate Shipping.

1. System of Record.—Interstate Shipping comprises two elements: (a) Vessels engaged solely in interstate trade; and (b) Vessels trading between Australia and oversea countries and in the course of their voyage proceeding from one State to another. (It should be mentioned that these vessels, except under special circumstances, do not engage in interstate carrying.) No complexity enters into the record of those in category (a), but with regard to the method of recording the movements of the oversea vessels (b) some explanation is necessary. Each State desires that its shipping statistics (which are prepared in this Bureau) should show in full its shipping communication with oversea countries, but at the same time it is necessary to avoid any duplication in the statistics for Australia as a whole. In order to meet these dual requirements, a vessel arriving in any State from an oversea country—say United Kingdom—via another State, is recorded in the second State as from United Kingdom via States, thus distinguishing the movement from a direct oversea entry. Continuing the voyage, the vessel is again recorded for the statistics of the third State as from United Kingdom via other States. On an inward voyage the clearance from the first State to the second State is a clearance interstate, and is included with interstate tonnage in conformity with the pre-federation practice of the States, and to preserve the continuity of State statistics. Thus, movements of ships which are, from the standpoint of Australia as a whole, purely coastal movement, must for the individual States be recorded as "Oversea via other States" or "Interstate" according to the direction of the movement. The significance of the record of these movements will be more clearly seen from the following tabular presentation of the inward and outward voyages to and from Australia of a mail steamer which, it is presumed, reaches Fremantle (Western Australia) and then proceeds to the terminal port of the voyage—Sydney (New South Wales)—via South Australia and Victoria. From the terminal port the vessel will commence the outward voyage, and retrace its inward track.

ITINERARY OF AN OVERSEA VESSEL ON AUSTRALIAN COAST.

| | | | Recorded as- | | |
|---|---------------|-------------|---|--|--|
| Particulars. | For the and : | fo r | For the States. | | |
| Inward Voyage— Enters Fremantle from United Kingdom Clears Fremantle for Adelaide Enters Adelaide from United Kingdom via Fremantle Clears Adelaide for Melbourne Enters Melbourne from United Kingdom via Adelaide Clears Melbourne for Sydney Enters Sydney from United Kingdom via Adelaide | Oversea | direct | Interstate direct | Oversea via States Oversea via States Oversea via States | |
| Outward Voyage— Clears Sydney for United Kingdom via Melbourne Enters Melbourne from Sydney Clears Melbourne for United Kingdom via Adelaide Enters Adelaide from Melbourne Clears Adelaide for United Kingdom via Fremantle Enters Fremantle from Adelaide Clears Fremantle for United Kingdom | Oversea | direct | Interstate direct Interstate direct Interstate direct | Oversea via States Oversea via States oversea via States | |

From the method outlined above, the requirements for Australia and for the individual States are ascertained as follows. (a) The aggregate of all ships recorded for each State as "Oversea direct" gives the oversea shipping for Australia as a whole;

(b) the aggregate for all ships recorded in any State as "Oversea direct" plus those recorded as "Oversea via States" gives the total oversea shipping for that State; and (c) the aggregate for all ships recorded as "Oversea via States" may also be used, together with those recorded as "Interstate direct", to furnish figures showing the total interstate movement of shipping.

It should be remembered, however, that all oversea vessels do not follow the same itinerary as the vessel in the table above.

2. Interstate Movement.—(i) Interstate direct. The following table shows the number of entrances and the net tonnage of vessels recorded into each State from any other State (including oversea vessels on interstate direct voyages) during each of the years 1946-47 to 1950-51 compared with the year 1938-39. The shipping of the Murray River, between the States of New South Wales, Victoria and South Australia, is excluded:—

INTERSTATE MOVEMENT OF SHIPPING: ENTRANCES OF VESSELS INTERSTATE DIRECT.

| | | • | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | |
|---------------------|----|----------|---|----------|----------|----------|---------------------------------------|
| State or Territory. | | 1938-39. | 1946–47. | 1947–48. | 1948–49. | 1949–50. | 1950-51. |
| | | 1 | NUMBER. | | | · | · · · · · · · · · · · · · · · · · · · |
| New South Wales | | 2,183 | 1,136 | 1,133 | 1,227 | 1,176 | 1,122 |
| Victoria | | 2,243 | 1,209 | 1,224 | 1,288 | 1,329 | 1,288 |
| Queensland | | 639 | 340 | 306 | 360 | 379 | 395 |
| South Australia | | 1,036 | 647 | 678 | 756 | 710 | 790 |
| Western Australia | | 382 | 256 | 326 | 465 | 420 | 484 |
| Tasmania | | 1,301 | 705 | 717 | 711 | 765 | 796 |
| Northern Territory | •• | 39 | 14 | 16 | 15 | 27 | 20 |
| Australia | | 7,823 | 4,308 | 4,400 | 4,822 | 4,806 | 4,895 |
| | | Net | Tons ('oc | 00). | | | |
| New South Wales | | 6,205 | 3,041 | 2,977 | 3,636 | 3,570 | 3,391 |
| Victoria | | 4,751 | 2,568 | 2,690 | 3,067 | 3,245 | 3,399 |
| Queensland | | 1,730 | 728 | 587 | 927 | 987 | 993 |
| South Australia | | 3,322 | 1,871 | 1,963 | 2,578 | 2,687 | 2,889 |
| Western Australia | | 2,019 | 1,165 | 1,305 | 2,164 | 2,167 | 2,472 |
| Tasmania | | 1,770 | 739 | 772 | 668 | 746 | 759 |
| Northern Territory | •• | 103 | 28 | 25 | 26 | 36 | 30 |
| Australia | | 19,900 | 10,140 | 10,409 | 13,066 | 13,438 | 13,933 |

From 1938-39 the total net tonnage of interstate shipping declined steadily each year up to 1942-43, when it represented only 38 per cent. of the total for the pre-war year. It remained practically unchanged during the next three years, but increased by over 29 per cent. in 1946-47. There was little change in 1947-48, the tonnage for that year being about 52 per cent. of the 1938-39 total. By 1950-51 the total had risen to 70 per cent. of the 1938-39 total.

(ii) Oversea via States. To ascertain the aggregate movement of shipping between the States, including the total interstate movements of oversea vessels, the figures in the following table, which show the number of entrances and clearances of vessels to and from oversea countries via other Australian States and the aggregate tonnage, must be added to those in the preceding table.

INTERSTATE MOVEMENT OF SHIPPING: ENTRANCES AND CLEARANCES OF VESSELS OVERSEA VIA OTHER AUSTRALIAN STATES, 1950-51.

| | • | | | Cleara | nces. | Total. | |
|---------------------|---------|--------------------------------------|--|--------------------------------------|--|---------------------------------------|--|
| State or Territory. | Number. | Net Tons ('000). | Number. | Net Tons ('000). | Number. | Net Tons ('000). | |
| New South Wales | | 583 573 256 303 33 79 | 3,119 3,185 1,368 1,699 155 393 | 398 423 156 232 25 82 | 2,221 2,387 822 1,323 136 416 | 981 996 412 535 58 161 | 5,340 5,572 2,190 3,022 291 809 |
| Australia | | 1,828 | 9,919 | 1,317 | 7,310 | 3,145 | 17,229 |

Oversea vessels moving interstate are with few exceptions not engaged in the active interstate trade of Australia, but are merely proceeding to the several States in continuation of their oversea voyages.

(iii) Total, Australia. The following table shows the total interstate movement of shipping, including oversea vessels travelling oversea via States and interstate direct, for each of the years 1938-39 and 1946-47 to 1950-51:—

INTERSTATE MOVEMENT OF SHIPPING: TOTAL, AUSTRALIA.

| | | | | Entra | inces. | Clearances. | | |
|---------|-------|-----|--|---------|---------------------|-------------|---------------------|--|
| | Year. | | | Number. | Net Tons ('000). | Number. | Net Tons ('000). | |
| 1938-39 | | | | 9,603 | 29,977 | 9,669 | 30,000 | |
| 1946-47 | | | | 5,122 | 14,181 | 5,173 | 14,258 | |
| 1947-48 | | | | 5,557 | 16,246 | 5,594 | 16,386 | |
| 1948-49 | | • • | | 6,213 | 20,651 | 6,212 | 20,553 | |
| 1949-50 | | | | 6,588 | 23,110 | 6,710 | 23,296 | |
| 1950-51 | | | | 6,723 | 23,852 | 6,754 | 23,946 | |

(iv) Total, States. The following table shows, for each State, the number of entrances and clearances of vessels from and for other States, and the aggregate tonnage, during the year 1950-51, and includes the interstate movements of oversea vessels:—

INTERSTATE MOVEMENT OF SHIPPING: TOTAL, STATES, 1950-51.

| | | | Entra | nces. | Clearances. | | |
|---|--|--|--|--|--|--|--|
| State or Territory. | | | Number. | Net Tons ('000). | Number. | Net Tons ('000). | |
| New South Wales Victoria Queensland South Australia Western Australia Tasmania Northern Territory | | | 1,705 1,861 651 1,093 517 875 | 6,510 6,584 2,361 4,588 2,627 1,152 | 1,767 1,969 584 1,073 450 891 | 6,727 7,001 1,983 4,571 2,513 1,121 | |
| Australia | | | 6,723 | 23,852 | 6,754 | 23,946 | |

3. Shipping Engaged Solely in Interstate Trade.—The following table shows, for each State, the number of entrances direct from other States, of vessels engaged solely in interstate trade during the year 1950-51, together with the net tonnage.

SHIPPING ENGAGED SOLELY IN INTERSTATE TRADE: ENTRANCES, 1950-51.

| Particulars. | N.S.W. | Vic. | Qld. | S.A. | W.A. | Tas. | N.T. | Aus- tralia. |
|-------------------|--------|-------|------|-------|------|-----------------|------|-----------------|
| Ships Engaged No. | 766 | 929 | 261 | 471 | 103 | 75 ² | 19 | 3,301 |
| Net Tons '000 | 1,790 | 1,416 | 502 | 1,253 | 315 | 547 | 25 | 5,848 |

4. Interstate and Coastal Shipping Services.—The following table shows particulars, so far as they are available, of all vessels engaged in the regular interstate or coastal services at the end of each of the years 1947 to 1951 compared with the year 1939 :-

INTERSTATE AND COASTAL SHIPPING SERVICES: AUSTRALIA.

| Particulars. | 1939. | 1947. | 1948. | 1949. | 1950. | 1951. | |
|----------------------------|---------|---------|---------|---------|---------|---------|--|
| Number of companies opera- | | | | | | | |
| ting | . 34 | 30 | 31 | 30 | 31 | 32 | |
| Number of vessels | 162 | 177 | 175 | 175 | 179 | 173 | |
| Towns Gross | 361,066 | 519,343 | 496,768 | 509,425 | 490,496 | 492,558 | |
| Tonnage { Net | 199,585 | 294,553 | 281,611 | 286,490 | 272,801 | 272,003 | |
| Horse-power (Nominal) | 39,096 | 51,083 | 45,319 | 44,147 | 57,500 | 47,027 | |
| Number of (1st class | 3,385 | 1,481 | 1,443 | 1,475 | 2,003 | 2,171 | |
| passengers for 2nd class | 1 | 1 | | | | | |
| which licensed and steer- | i | ł . | í | 1 | ĺ | Í | |
| (a) (age | 1,370 | 390 | 363 | 364 | 559 | 706 | |
| Masters and | | " | 1 | | 1 | | |
| Complement of officers | 565 | 644 | 670 | 670 | 650 | 629 | |
| Crew Engineers | 589 | 709 | 704 | 710 | 736 | 738 | |
| (Crew | 4,365 | 4,801 | 4,725 | 4,733 | 4,985 | 4,907 | |

(a) Excluding purely day passenger accommodation.

Note.—This table excludes particulars of a small number of chartered vessels for which returns could not be obtained.

§ 6. Shipping Cargo.

1. Oversea and Interstate Cargo.—(i) Australia. The table hereunder shows the aggregate tonnage of oversea cargo discharged and shipped and the tonnage of interstate cargo shipped in Australian ports for the years 1946-47 to 1950-51 compared with the year 1938-39. Cargo which was stated in cubic feet has been converted to tons measurement on the basis of 40 cubic feet to the ton.

SHIPPING CARGO MOVEMENT: AUSTRALIA. /1000 \

| | | | | (000.) | | | | |
|--------------------|-----|----------------|----------------|-------------------|----------------|--------------|------------|--|
| | | | Overses | Interstate Cargo. | | | | |
| Year. | | Discha | rged. | Ship | ped. | Shipped. | | |
| | | Tons Weight. | Tons Meas. | Tons Weight. | Tons Meas. | Tons Weight. | Tons Meas. | |
| 1938-39 | | 4,208 | 2,191 | 5,138 | 1,093 | 7,221 | 1,731 | |
| 1946-47 1947-48 | • • | 4,171 4,982 | 1,394 1,916 | 3,097 4,532 | 1,357 1,245 | 7,264 | 1,272 | |
| 1948-49 | | 5,849 | 2,572 | 5,423 | 1,366 | 6,230 | 1,173 | |
| 1949-50 | | 7,686 | 3,576 | 5,061 | 1,388 | 6,419 | 1,207 | |
| 1950-51 | | 9,084 | 3,989 | 5,405 | 1,295 | 6,723 | 1,326 | |

(ii) Principal Ports. The following table shows the tonnage of oversea and interstate cargo discharged and shipped at principal ports during 1950-51.

CARGO DISCHARGED AND SHIPPED AT PRINCIPAL PORTS, 1950-51.

(Tons Weight and Tons Measurement Combined—'000.)

| Port. | | Discharged. | | Shipped. | | | |
|-----------------------------|----------|-------------|----------|------------|-------------|----------------|--|
| Port. | Oversea. | Interstate. | Total. | Oversea. | Interstate. | Total. | |
| Sydney | 3,718 | 880 | 4,598 | 1,315 | 589 | 1,904 | |
| Newcastle | 350 | 1,221 | 1,571 | 157 | 2,090 | 2,247 | |
| Port Kembla : | 135 | 1,341 | 1,476 | 103 | 422 | 525 | |
| Other | | | •• | 18 | 9 | 27 | |
| Total, New South Wales | 4,203 | 3,442 | 7,645 | 1,593 | 3,110 | 4,703 | |
| Melbourne | 4,069 | 1,947 | 6,016 | 877 | 685 | 1,562 | |
| Geelong | 471 | 131 | 602 | 784 | 4 | 788 | |
| Portland | 51 | | 51 | 6 | ' | ['] 6 | |
| Total, Victoria | 4,591 | 2,078 | 6,669 | 1,667 | 689 | 2,356 | |
| Brisbane | 982 | 476 | 1,458 | 401 | 151 | 552 | |
| Cairns | 53 | 28 | 81 | 87 | 105 | 192 | |
| Townsville | 69 | 53 | 122 | 135 | l ši l | 216 | |
| Other | 44 | 54 | 98 | 230 | 213 | 443 | |
| Total, Queensland | 1,148 | 611 | 1,759 | 853 | 550 | 1,403 | |
| Adelaide | 1,308 | 958 | 2,266 | 522 | 413 | 935 | |
| D . D' ' | 1,300 | 93 | 208 | 230 | 182 | 933 412 | |
| Wallaroo | 39 | 93 | 39 | 178 | 17 | 195 | |
| Whyalla | 39 | 221 | 221 | 5 | 2,251 | 2,256 | |
| Other | 42 | 19 | 61 | 186 | 44 | 230 | |
| Total, South Australia | 1,504 | 1,291 | 2,795 | 1,121 | 2,907 | 4,028 | |
| Fremantle | 1,188 | 453 | 7.647 | 700 | 7.4 | 872 | |
| Fremantle Bunbury | 1 / | 453 | 1,641 | 799 188 | 74 38 | 873 226 | |
| Geraldton | 34 | | 34 | 257 | 10 | 267 | |
| Other | 47 78 | 18 | 47 96 | 27 | 16 | 43 | |
| Total, Western Australia | 1,347 | 471 | 1,818 | 1,271 | 138 | 1,409 | |
| Taba-t | 206 | 260 | | 0 | 2.0 | -0- | |
| Hobart | 226 | 369 | 595 | 138 | 242 | 380 8 r | |
| Devonport | 17 | 47 | 64 | 10 | 75 | 85 | |
| Launceston Other | 20 | 155 98 | 159 | 29 18 | 120 214 | 149 232 | |
| Total, Tasmania | 267 | 669 | 936 | 195 | 651 | 846 | |
| Darwin (Northern Territory) | 13 | 30 | 43 | | 4 | 4 | |
| Total, Australia | 13,073 | 8,592 | 21,665 | 6,700 | 8,049 | 14,749 | |

2. Oversea Cargo by Nationality of Vessels.—The following table shows the total oversea cargo discharged and shipped combined, according to the nationality of the vessels, during the years 1946-47 to 1950-51 compared with the year 1938-39:—

OVERSEA CARGO DISCHARGED AND SHIPPED: NATIONALITY OF VESSELS. AUSTRALIA.

(Tons Weight and Tons Measurement Combined-'000.)

| Vessels Registered at Ports in- | 1938-39. | 1946-47. | 1947-48. | 1948-49. | 1949-50. | 1950-51. |
|---------------------------------|----------|----------|----------|----------|----------|----------|
| British Countries— | 1 | | | 1 | | |
| Australia | 416 | 267 | 286 | 306 | 237 | 262 |
| United Kingdom | 7,731 | 6,957 | 8,293 | 10,167 | 11,468 | 12,718 |
| Canada | 53 | 121 | 85 | 132 | 83 | 54 |
| New Zealand | 503 | 233 | 203 | 226 | 253 | 162 |
| Other British | 446 | 187 | 425 | 305 | 370 | 510 |
| Total British | | 7 765 | 0.202 | 11,136 | 12,411 | 13,706 |
| | 9,149 | 7,765 | 9,292 | , | 70.08 | 69.32 |
| Proportion of Total % | 72.43 | 77.51 | 73.30 | 73.21 | 70.00 | 09.32 |
| Foreign Countries— | | | | | | |
| Denmark | 184 | 38 | 105 | 265 | 378 | 414 |
| France | 189 | 90 | 95 | 123 | 187 | 249 |
| Germany | 370 | | | 1 | | 1 |
| Italy | 84 | 37 | 18 | 217 | 176 | 244 |
| Japan | 260 | | | | | |
| Netherlands | (a) 573 | (a) 327 | (a) 512 | (a) 531 | (a) 646 | 616 |
| Norway | 834 | 547 | 566 | 1,149 | 1,712 | 1,925 |
| Sweden | 354 | 314 | 408 | 453 | 589 | 675 |
| United States of America | 159 | 659 | 1,083 | 688 | 397 | 464 |
| Other Foreign | 475 | 241 | 597 | 649 | 1,215 | 1,480 |
| /II-4-1 7II* | . 0- | | 0 | | | 6 -6- |
| Total Foreign | 3,482 | 2,253 | 3,384 | 4,075 | 5,300 | 6,067 |
| Proportion of Total % | 27.57 | 22.49 | 26.70 | 26.79 | 29.92 | 30.68 |
| Grand Total | 12,631 | 10,018 | 12,676 | 15,211 | 17,711 | 19,773 |

(a) Includes Netherlands East Indies.

Owing to war conditions the proportion of cargo carried in British vessels decreased from 72.43 per cent. in 1938-39 to 41.37 in 1943-44, but increased to 77.51 per cent. in 1946-47. It has since declined again to 69.32 per cent. in 1950-51.

§ 7. Control of Shipping.

1. War-time Control.—An account of the action taken by the Commonwealth Government to control and regulate shipping throughout Australian waters during the 1939-45 War is given in Official Year Book No. 36, pp. 121-130.

2. Post-war Control and Developments.—A brief account of the post-war control of shipping and the establishment of the Australian Stevedoring Industry Board and the Australian Shipping Board will be found in Official Year Book No. 39, pp. 147–8.

As at 1st November, 1952, the Australian Shipping Board operated 38 vessels totalling 156,344 gross tons, of which seven vessels totalling 47,030 gross tons were operated on time charter from private owners. The Government-owned tonnage, totalling 114,534 gross tons (of which three vessels totalling 4,203 gross tons were on charter to private companies or other shipping organizations), comprised thirteen "A" or River Class vessels of an average of 5,150 gross tons, two "B" Class vessels of an average of 3,952 gross tons, nine "D" Class vessels of an average of 2,326 gross tons, five "G" Class vessels of an average of 584 gross tons, all of which were built in Australian yards, plus five vessels, totalling approximately 16,000 gross tons, which were built overseas.

In the international sphere, ratification is still being awaited from 21 ship-owning nations of a Convention establishing an Inter-Governmental Maritime Consultative Organization within the framework of the United Nations. The major objectives of this Organization are to provide machinery for co-operation among Governments with shipping engaged in international trade, and to encourage the removal by Governments of discriminatory action and unnecessary restrictions regarding such shipping.

This Organization is designed to replace the United Maritime Consultative Council which was established on a tentative basis after the expiry of the war-time United

Maritime Authority and Combined Adjustment Board.

§ 8. Miscellaneous.

- 1. Lighthouses.—A list of the principal lighthouses on the coast of Australia, giving details of the location, number, colour, character, period, candle-power and visibility of each light so far as particulars were available was published in Transport and Communication Bulletin No. 14.
- 2. Distances by Sea.—The distances by sea between the ports of the capital cities of Australia and the most important ports in other countries which trade with Australia are shown in Transport and Communication Bulletin No. 43.
- 3. Shipping Freight Rates.—The Quarterly Summary of Australian Statistics shows a list of the ruling freight rates for general merchandise in respect of both oversea and interstate shipments. At 31st December, 1952, the rate for general merchandise from Australia to the United Kingdom and Continent was 155s. od. per ton weight or measurement while the rates for wheat (bagged) and wool (greasy) were respectively 110s. od. per ton weight and 2.57d. less 7 per cent. per lb. These rates, which are expressed in sterling, are subject to an adjustment of 25½ per cent. when freight is prepaid in Australia.
- 4. Depth of Water at Main Ports.-A table, compiled from information supplied by the Director of Navigation, showing the depth of water available and tides at principal ports of Australia at 1st January, 1953, is included in Transport and Communication Bulletin No. 43.
- 5. Shipping Casualties.—Courts of Marine Inquiry are constituted by a Magistrate assisted by skilled assessors, and, when necessary, are held at the principal port in each State and at Launceston (Tasmania). Such courts have power to deal with the certificates of officers who are found at fault. Particulars of shipping casualties reported on or near the coast during the years 1947 to 1951 are shown in the table below. This information also was furnished by the Director of Navigation:-

TOTAL SHIPPING CASUALTIES AND LOSSES: AUSTRALIA.

| | | | |
|-------|--------------------------|---------------------|------|
| | Total Losses of Vessels. | Total Casualties to | Vess |
| Year. | | | - |

| | | Tota | l Losses of Ve | ssels. | Total Casualties to Vessels. | | | | |
|------|-------|---------|----------------|-------------|------------------------------|-----------|-------------|--|--|
| | Year. | Number. | Net Tons. | Lives Lost. | Number. | Net Tons. | Lives Lost. | | |
| | | | | | | | | | |
| 1947 | ! | 2 | 396 | : | 151 | 442,685 | 10 | | |
| 1948 | | 1 | 113 | | 206 | 652,047 | ., | | |
| 1949 | ! | 3 | 3,705 | 12 | 155 | 435,935 | 12 | | |
| 1950 | | 4 | 9,735 | 20 | 191 | 611,084 | 22 | | |
| 1951 | ! | 5 | 2,908 | 5 | 205 | 650,718 | 5 | | |
| | ! | | | | | | <u> </u> | | |

6. Commonwealth Navigation and Shipping Legislation.—By Section 51 (i) of the Commonwealth Constitution, the Parliament of the Commonwealth is empowered to make laws in respect of trade and commerce with other countries and among the States. By Section 98 the power in this particular respect is further defined as extending to navigation and shipping.

The first essay in the way of legislation in this direction was made in March, 1904, when a Bill for a Navigation and Shipping Act was introduced in the Senate by the Attorney-General of the first Deakin Administration. This Bill was withdrawn at an early stage for further consideration and redrafting. The Deakin Ministry resigned in April, 1904, and the succeeding Watson Government, in view of the far-reaching and important character of the matters comprehended in the measure, decided to refer the Bill for consideration and report to a Royal Commission. In 1905 the Commission presented a Draft Bill, the main principles of which, insofar as they affected oversea shipping, were then, at the invitation of the Imperial Government, considered at an Imperial Shipping Conference held in London in 1907, at which representatives of Great Britain, Australia, and New Zealand were present. The Conference considered, inter alia, the following recommendation of the Royal Commission:-" That the coastal trade of the Commonwealth be reserved for ships on the Australian Register, or ships conforming to Australian conditions, and licensed to trade on the Australian coast"; and recommended:-"That the vessels to which the conditions imposed by the law of Australia or New Zealand are applicable should be (i) vessels registered in the colony, while trading therein, and (ii) vessels wherever registered, while trading on the coast of the colony". Further modifications were made in the draft (by the Royal Commission) to conform to the resolutions of the Conference, and the resultant Bill was re-introduced in the Senate in September, 1907, by the second Deakin Administration. Owing to pressure of other business, however, it lapsed. The Bill was again introduced in the Senate in September, 1908, but again it lapsed; proceedings were resumed in 1909, but again the Bill lapsed. It was brought in again in 1910 by the second Fisher Administration, revived in 1911. lapsed again, and finally became, under the last-mentioned Government, the Navigation Act of 1912. While preparations were being made to bring it into operation, the war broke out, and it was postponed.

In 1919 another Bill was introduced by the Australian National War Government to give the power to proclaim different portions of the Act to commence at different times. This Act (No. 32 of 1919) also extended the operation of the Act to the Territories under the authority of the Commonwealth, and those governed under a Mandate. But in 1925 it was found necessary in the interest of the development of the Territories to issue an Order in Council directing that trade with and in the Territories of Papua and New Guinea should not be deemed to be engaging in the coasting trade. Another amending Act was passed by the same Government in 1920, enabling the Commonwealth to fulfil its obligations under the International Convention for the Safety of Life at Sea. and to grant permits to British ships to trade on the coast ir special circumstances. A 1934 amendment brought the Act into line with a new International Convention on Safety of Life at Sea (1929) and with an International Load Line Convention (1930). Further amendments were made in 1942 and by the Statute Law Revision Act (1950). The citation of the Act is now therefore "the Navigation Act 1912-1950". Still another International Safety of Life at Sea Convention was adopted in 1948 and legislation is being prepared to enable the Commonwealth to ratify it.

The British Merchant Shipping Act 1894 requires that any legislation by the Parliament of a British Possession, repealing wholly or in part any provisions of that Act, shall not take effect until the approval of the Sovercign has been proclaimed in that Possession. All the early Navigation Bills, therefore, had been drawn to commence on dates to be fixed by proclamation after Royal Assent thereto had been proclaimed in the Commonwealth. But as a consequence of the adoption of the Statute of Westminster in 1942, Navigation Bills will no longer be reserved in this manner.

At the conclusion of the 1914-18 War, the proclamation of the 1912 Act could no longer be delayed. In order to make the change as gradual as possible, groups of sections have (under the power granted by the 1919 Act) been brought into operation from time to time. The first group—the Coasting Trade provisions—commenced on 1st July, 1921. Others commenced on the first day of October, 1921, March, 1922, February, 1923, March, 1923, and October, 1923, and the only important sections not yet in operation are those relating to the inspection and testing of anchors, chain cables and gear, and to pilotage.

Soon after the coasting trade provisions commenced, the owners of a number of intra-state ships took steps to have tested the validity of the application to their ships of the manning and accommodation provisions of the Act. The judgment of the High Court was to the effect that those provisions did not apply to vessels engaged solely in the domestic trade of a State. In consequence of this judgment, the Government decided not to enforce the provisions of the Act then in force on any intra-state ship, and similarly other sections since brought into force have not been applied to these ships.

Notwithstanding the fact that a considerable amount of shipping has thereby been left to the control of the various State Governments, for all ships trading beyond one State there is uniform procedure in regard to (i) the engagement and discharge of seamen; (ii) the inspection of accommodation provided for crews; (iii) scales of medicines; (iv) the survey of hulls, machinery and gear; (v) the carriage and stowage of cargo; (vi) loadlines; (vii) the adjustment of compasses; (viii) the examination of masters, mates, and engineers for certificates of competency, etc. A system of "sectional" surveys has been introduced, by means of which a ship may have portions of the annual survey carried out at different ports, thereby minimizing interference with the regular time-table.

The Act is in many respects flexible, provision being made for granting relief from some of its most stringent provisions. The provision that the coastal trade of the Commonwealth shall be reserved to Australian ships, or ships conforming to Australian conditions, is contained in Section 288 of the Act, but by Section 286 the Minister has power to grant permits to British ships which do not conform to those conditions, in circumstances where he is satisfied that the licensed service provided is inadequate. Such power is frequently made use of, and, in addition, foreign ships have occasionally been permitted to trade under exemptions granted under Section 422A of the Act.

Another direction in which the provisions of the Act may be varied is in regard to the manning scales, which are contained in Schedules appended to the Act. These scales may be varied by regulation, and Committees of Advice may be appointed to deal with individual cases. The scales in regard to many ships have, under these provisions, been increased or reduced according to the recommendations received by the Department.

The Act is administered by the Marine Branch of the Department of Shipping and Transport, there being, under the Assistant Secretary (Marine), a Director of Navigation and a staff of technical and clerical officers attached to the head office, with a Deputy Director of Navigation and technical and clerical staffs in each State. The Department, when necessary, seeks the advice of a body called the "Marine Council", consisting of six members, representing ship-owners, underwriters, deck and engineer officers, and seamen, with the Director of Navigation, ex officio, as Chairman. Any question regarding administration, or the making of regulations, etc., may be referred to the Council for advice, but it is obligatory on the Minister to seek the Council's advice upon all proposed regulations with respect to the scales of officers, crew and provisions.

During the 1939-45 War, a Maritime Industry Commission was established under National Security Regulations to deal with a limited number of industrial questions, and many of its Orders extended or modified provisions of the Navigation Act in regard to officers and seamen.

Other shipping Acts under the Trade and Commerce power of the Commonwealth are the Sea Carriage of Goods Act 1924, the Seamen's Compensation Act 1911–1949, and the Seamen's War Pensions and Allowances Act 1940–1952.

7. Ports and Harbours.—A report on "The Turn-round of Ships in Australian Ports" was submitted to the Commonwealth Government by Henry Basten, C.M.G., on 4th January, 1952. The report, which is divided into three sections, deals with all factors affecting the turn-round of ships and congestion in Australian ports and the measures that might be taken to effect improvement on both short-term and long-term bases.

B. GOVERNMENT RAILWAYS.

1. General.—The policy of Government ownership and control of railways has been adopted in each State and at 30th June, 1951, 24,753 route-miles were owned by the State Governments and 2,201 route-miles by the Commonwealth Government. In the following tables details of the four lines owned by the Commonwealth are grouped and shown with the totals for the various State-owned systems. Separate particulars for each Commonwealth line are shown in the Transport and Communication Bulletin issued by this Bureau.

In some States, there are comparatively small privately-owned railway systems offering passenger and freight services to the public. Details of these private railways were included in Official Year Book No. 39 and previous issues, but owing to their relative unimportance and the incomplete nature of the statistics available the series has been discontinued.

- 2. Railway Communication in Australia .- An account of the progress of railway construction in Australia since the opening of the first line in 1854 will be found in Official Year Books No. 6, p. 681 and No. 22, p. 259. The main ports on the mainland are connected by lines running approximately parallel to the coast and are the focal points of lines which radiate inland to the agricultural, mining and pastoral areas of the continent to a distance which reaches 600 miles at some points. However, Darwin in the Northern Territory is not connected by rail to any other port in Australia. A 3 ft. 6 in. railway extends southward from Darwin to Birdum, a distance of 317 miles, and from Port Augusta in South Australia northwards to Alice Springs in Central Australia, a distance of 771 miles. The report by the late Sir Harold Clapp to the Commonwealth Government, details of which appear in Official Year Book No. 37, p. 146, did not recommend the linking of the termini at Alice Springs and Birdum.* An all-weather road was built to cover the intervening distance and much goods traffic now passes along this road. The travelling times of trains on the main lines of Australia are being lessened and the haulage capacity increased by the introduction of diesel and diesel-electric locomotives, which in the near future will be the only source of power on the Trans-Australian Railway between Port Pirie and Kalgoorlie.
- 3. Standardization of Railway Gauges .- A summary of the report and recommendations relating to the standardization of Australia's railway gauges on the basis of a 4 ft. 81 in. gauge, made in March, 1945 at the request of the Commonwealth Government by the late Sir Harold Clapp, then Director-General of Land Transport, Commonwealth Department of Transport, together with an outline of the agreement between the Commonwealth Government and the States of New South Wales, Victoria and South Australia regarding the standardization of railway gauges in their respective States is contained in Official Year Book No. 37 (Chapter V.-Transport and Communication, pp. 146-9). The agreement, which was signed in 1946, was ratified by the Governments of the Commonwealth, of Victoria and of South Australia, but not by the New South Wales Government. After some time had elapsed and New South Wales had failed to ratify the agreement, the Commonwealth Government decided to enter into a separate agreement with South Australia, and the necessary legislation was enacted in 1949 by each Government concerned. Action was also taken to invite the Victorian Government to discuss the subject of a separate agreement, but to date there has been no legislative action. The Commonwealth-South Australia Agreement provides for the same standardization · work to be carried out in South Australia as would have been carried out had New South Wales ratified the original Commonwealth-Three States Agreement, and that over a period of years the Commonwealth should contribute 70 per cent. and South Australia be responsible for the remaining 30 per cent. of the estimated cost of £24,000,000.
- 4. Government Railways: Lines under Construction and Lines Authorized. 1950-51.—
 (i) Lines under Construction. In spite of the great extensions of State railways since 1875 and also the construction of various railways by the Commonwealth Government, there are still, in some States, immense areas of country which are as yet practically

[•] This is, however, provided for in the Commonwealth-South Australia Agreement referred to in par. 3.

undeveloped, and in which little in the nature of permanent settlement has been accomplished. The general policy of the States was to extend the existing lines inland in the form of light railways as settlement increased, and while it is true that lines which were not likely to be commercially successful in the immediate future have been constructed from time to time for the purpose of encouraging settlement, the general principle that the railways should be self-supporting was kept in view.

- (a) New South Wales. Work continued on the eastern suburbs electric railway and steady progress was made on the St. James to Wynyard section whilst the tunnelling from Haymarket to Town Hall and Central stations was commenced. Plans were prepared for the location of tracks between Town Hall, Martin Place, King's Cross and Bondi Junction together with surveys, boring and tunnelling operations on the preparatory works in other suburbs. The duplication and deviation of the main northern line between Branxton and Muswellbrook and the quadruplication of the Lidcombe to Penrith line, various sections of which were brought into service, continued, and considerable progress was made on the new double-line bridge on the upstream side of the existing bridge over the Parramatta River at Meadowbank. On the Sydney to Newcastle line strengthening and improvement works were carried out. The new goods yard at Cook's River on the Sydney to Botany line was 80 per cent. completed.
- (b) Victoria. The work on the duplication and electrification of sections of the Gippsland line continued throughout the year. A new section of line between Drouin and Warragul and a section of single track from Darnum to Yarragon were brought into service.
- (c) Queensland. Duplication of small sections of suburban line were completed and placed in service whilst work continued on the quadruplicate of the Roma Street to Corinda suburban line. Work continued throughout the year on the deviation designed to eliminate the rack service between Moonmera and Moongan on the Mount Morgan line and this undertaking was completed early in 1952. Reconditioning work was carried out between Almaden and Mount Surprise and contracts were let for the concrete and earthworks on the Callide Coalfield Railway. Drawings for the new high level bridge over the Haughton River at Giru were sufficiently advanced to enable pier construction to be commenced. Plans were made for the layout of new railway workshops at Redbank, the civil engineer's workshop at Banyo and the goods depot at Normanby.
- (d) South Australia. Work on converting the Naracoorte to Mount Gambier line from 3 ft. 6 in. to 5 ft. 3 in. gauge was continued and by June, 1951, the 5 ft. 3 in. gauge stretched from Adelaide to a point 10 miles south of Naracoorte. Earthworks on this section were completed to within 5 miles of Mount Gambier.
- (e) Other. At 30th June, 1951, there was no railway construction work in progress in Western Australia or Tasmania or for the Commonwealth Government.
- (ii) Lines Authorized for Construction. In the States of New South Wales, Victoria, Queensland, South Australia and Western Australia at 30th June, 1951 there were certain lines authorized for construction but not commenced. These lines were authorized many years ago, some as early as 1910 and none later than 1933. Particulars may be found in Official Year Book No. 36, p. 133. There have been no later authorizations.
- 5. Grafton-South Brisbane (Uniform Gauge) Line.—For particulars of the construction of the Grafton-South Brisbane (Uniform Gauge) Line completed in 1930, which constituted the first step towards uniform gauge railway communication between the capitals of the mainland States, see Official Year Books No. 31, p. 122 and No. 38, p. 165.
- 6. Mileage Open for Traffic, all Lines.—Almost all the railways open for general traffic in Australia are owned and controlled by the State or Commonwealth Governments. Private lines have been laid down for the purpose of opening up forest lands, mining districts or sugar areas. These lines are not generally used for the conveyance of passengers or the public conveyance of goods.

The following table shows the route-mileage of Commonwealth and State lines open in each State, at different periods since the inauguration of railways in Australia in 1854 up to the year 1950-51:—

GOVERNMENT RAILWAYS: ROUTE-MILEAGE OPEN.

| | (Miles.) | | | | | | | | | | | | |
|---|--|---|--|---|---|---|------|---|--|--|--|--|--|
| Year. | N.S.W. | Vic. | Q'ld. | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. | | | | |
| 1855 1861 1871 1881 1890-91 1900-01 1910-11 1920-21 1930-31 1940-41 1946-47 1947-48 1948-49 1949-50 | 14 73 358 90,62 2,182 2,846 3,762 5,043 6,012 6,128 6,128 6,113 6,113 6,113 | 2 114 276 1,247 2,763 3,237 3,523 4,267 4,777 4,759 4,674 4,686 4,686 | 218 2,105 2,105 2,801 3,868 5,752 6,567 6,566 6,560 6,560 6,560 6,560 | 7 56 133 832 1,666 1,736 1,935 3,408 3,899 3,799 3,799 3,799 3,799 3,805 | 1,355 2,376 3,992 4,634 4,835 4,802 4,802 4,706 4,682 | 45 45 45 457 470 630 665 642 641 614 614 613 | | 5 | 23 243 1,030 4,012 9,500 12,577 16,079 23,296 26,809 27,234 27,179 27,123 26,979 26,954 | | | | |
| | 1 | | | | | | ••• | | | | | | |

The next table shows for each State the length of Government lines open in relation to both population and area at 30th June, 1951.

GOVERNMENT RAILWAYS: ROUTE-MILEAGE OPEN AT 30th JUNE, 1951.

| (Miles.) | | | | | | | | | |
|--|--------|-------|-------|-------|-------|-------|-------|--------|--------|
| Particulars. | N.S.W. | Vic. | Q'ld. | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
| | | j | | | - | 1 | - 1 | | - |
| Mileage open (route) Per 1,000 of popula- | | 4,686 | 6,560 | 3,805 | 4,682 | 613 | 490 | 5 | 26,954 |
| tion Per 1,000 square miles | 1.84 | 2.07 | 5.42 | 5.28 | 8.06 | 2.11 | 30.63 | 0.20 | |
| Per 1,000 square miles | 19.75 | 53.25 | 9.78 | 10.01 | 4.80, | 23.57 | 0.94 | 5.32 | 9.06 |

7. Classification of Lines according to Gauge, 1950-51.—The next table shows the route-mileage of Government railways open in each State and Territory at 30th June, 1951, classified according to gauge.

GOVERNMENT RAILWAYS: GAUGES, AT 30th JUNE, 1951.

| | - | (11111 | | | , | |
|---|---|------------------------|---------------------|-------------|-------------|----------------------------------|
| State or (Dennit on) | | Total. | | | | |
| State or Territory. | 5 ft. 3 in. | 4 ft. 81 in. | 3 ft. 6 in. | 2 ft. 6 in. | 2 ft. o in. | Total. |
| New South Wales Victoria Queensland South Australia | 4,571 | 6,111 69 654 | 6,461 1,621 | 115 | 30 | 6,113 4,686 6,560 3,805 |
| Western Australia | • | 454 5 | 4,228 613 490 | ••• | | 4,682 613 490 5 |
| Australia | 6,103 | 7,293 | 13,413 | 115 | 30 | 26,954 |

Note.—The table above includes 2,201 miles of Commonwealth Government railways as follows:—4 ft. 8½ in. gauge—South Australia 654 miles, Western Australia 454 miles and Australian Capital Territory 5 miles; 3 ft. 6 in. gauge—South Australia 598 miles and Northern Territory 490 miles.

8. Summary of Operations, 1950-51.—In the following table a summary is shown of the working of Government railways open in Australia during the year ended 30th June, 1951:—

GOVERNMENT RAILWAYS: SUMMARY OF OPERATIONS, 1950-51.

| State Railways. | Total. |
|---|--|
| 24,753 103,491 286.04 110,338 304.94 - 6,847 -18.93 86,835 475,927 40,733 125,387 | 26,954 105,644 285,93 112,772 305,21 - 7,128 - 19,29 88,676 476,113 41,324 127,859 |
| | |

⁽a) Excludes amounts paid for Commissioner's salary $(\pounds_3,500)$, Government contributions under the Superannuation Act $(\pounds_3,500)$. Accident and Insurance Fund $(\pounds_{14},236)$ and proportion of salaries of Auditor-General's staff $(\pounds_1,600)$. (b) Excludes construction staff.

9. Summary, States, 1959-51.—The following table shows particulars of the mileage open, passengers and goods carried, and train-miles run, for Government railways in Australia during 1950-51. Owing to differences in the composition of the figures for the several States, the details of cost of construction and equipment which were given in previous issues of the Official Year Book have been omitted.

GOVERNMENT RAILWAYS: SUMMARY, 1950-51.

| System. | | Mileage | Open.(a) | en.(a) Passenger- | | Train-miles |
|-------------------|---------------|---------|-----------|------------------------|------------|-------------|
| System. | Route. Track. | | journeys. | Live Stock Carried. | Run.(b) | |
| | | | | . ———— | | |
| | | Miles. | Miles. | '000. | 'ooo tons. | '000. |
| New South Wales | | 6,113 | 8,409 | 268,567 | 18,324 | 38,112 |
| Victoria | | 4,686 | 6,072 | 141,313 | 7,539 | 14,575 |
| Queensland | | 6,560 | 7,484 | 34,145 | 7,182 | 18,562 |
| South Australia | ' | 2,553 | 3,157 | 17,177 | 3,794 | 6,379 |
| Western Australia | 1 | 4,228 | 4,789 | 11,543 | 3,033 | 7,136 |
| Tasmania | • • | 613 | 707 | 3,182 | 861 | 2,071 |
| Commonwealth | •• | 2,201 | 2,360 | 186 | 591 | 1,841 |
| Australia | : | 26,954 | 32,978 | 476,113 | 41,324 | 88,676 |

⁽a) At 30th June, 1951.

⁽b) Excludes assistant and light miles.

^{10.} Gross Revenue.—(i) General. The gross revenue is composed of (a) receipts from coaching traffic, including the carriage of mails, horses, parcels, etc., by passenger trains; (b) receipts from the carriage of goods and live stock; and (c) rents and miscellaneous items. The following have been excluded:—State Government grants of £800,000 for the working of country developmental lines in New South Wales; £9,000 towards reduction in outer suburban fares and £1,795,000 to limit interest payments to 1 per cent. on loan liability in Victoria; £1,800,000 towards working expenses and £800,000 towards interest payments in South Australia; and £10,000 for sick leave funds in Tasmania.

(ii) Coaching, Goods and Miscellaneous Receipts. (a) Summary. In the following table the gross revenue is shown for the year 1950-51, classified according to the main three sources of receipts, together with the revenue per average mile worked and the revenue per train-mile run:—

GOVERNMENT RAILWAYS: GROSS REVENUE(a), 1950-51.

| System. | Coaching. | Goods and Live Stock. | Miscellan- eous. | Total. | Per Route-mile. | Per Train-mile. |
|---|--|--|--|--|--|--------------------------------|
| New South Wales Victoria Queensland South Australia Western Australia Tasmania Commonwealth | £'000. 15,089 7,225 3,973 1,406 1,151 201 570 | £'000. 28,351 9,992 15,168 5,305 5,362 1,108 | £'000. 6,008 1,434 631 604 456 27 175 | £'000. 49,448 18,651 19,772 7,315 6,969 1,336 2,153 | £ 8,089 3,979 3,014 2,865 1,648 2,180 978 | d. 311 307 256 275 234 155 281 |
| Australia | 29,615 | 66,694 | 9,335 | 105,644 | 3,919 | 286 |

⁽a) Excludes Governmental Grants, see para. 10 (i) above.

⁽b) Proportions to Total. The following table shows for the year 1950-51 the proportion of each class of receipts to the total gross revenue:—

GOVERNMENT RAILWAYS: PROPORTION OF EACH CLASS OF RECEIPTS TO TOTAL RECEIPTS, 1950-51.

(Per Cent.)

| | | | 11 01 0 | | | | |
|-------------------|-------|-----|---------|-------|-----------|--------------------------|---------------------|
| | Syste | em. | | | Coaching. | Goods and Live Stock. | Miscel- laneous. |
| New South Wales | | | | | 30.52 | 57.33 | 12.15 |
| Victoria | | | | • • • | 38.74 | 53.57 | 7.69 |
| Queensland | | | | | 20.09 | 76.72 | 3.19 |
| South Australia | | | | | 19.22 | 72.52 | 8.26 |
| Western Australia | | | | | 16.52 | 76.94 | 6.54 |
| Tasmania | | | | | 15.05 | 82.93 | 2.02 |
| Commonwealth | | • • | • • | | 26.47 | 65.40 | 8.13 |
| Australia | | | | | 28.03 | 63.13 | 8.84 |
| | | | | , | | 1 1 | |

⁽iii) Totals, 1938-39 and 1946-47 to 1950-51. The following table shows the gross revenues for State and Commonwealth railways for the years 1946-47 to 1950-51 in comparison with the year 1938-39:—

GOVERNMENT RAILWAYS: GROSS REVENUE.

| Year. | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tasmania. | C'wealth. | Australia. |
|---------|--|---|---|--|--|-------------------------------------|--|---|
| 1938-39 | 19,146 30,353 36,906 39,663 40,121 49,448 | 9,274 13,528 16,304 17,259 20,355 18,651 | 7,798 11,033 11,532 15,392 15,988 19,772 | 3,119 4,593 5,079 5,849 6,512 7,315 | 3,599 4,046 4,549 5,090 6,292 6,969 | 487 893 958 1,050 1,049 | 547 1,099 1,237 1,673 1,875 2,153 | 43,970 65,545 76,565 85,976 92,192 105,644 |

NOTE.—Details of gross revenue classified according to coaching, goods (including live stock) and miscellaneous receipts for the years 1941-42 to 1950-51 are shown in *Transport and Communication Bulletin* No. 42.

the working expenses.—(i) General. In order to make an adequate comparison of the working expenses as between the several States and Territories, allowance should be made for the variation of gauges and of physical and traffic conditions, not only on the different systems of the State and Commonwealth railways, but also on different portions of the same systems. When traffic is light, the proportion of working expenses to revenue is naturally greater than when traffic is heavy; and this is especially true in Australia, where ton-mile rates are in many cases based on a tapering principle—i.e., a lower rate per ton-mile is charged upon merchandise from remote interior districts—and where on many of the lines there is but little back loading.

Working expenses, wherever represented in the Railways section of this chapter, exclude interest, sinking fund, exchange and certain other payments (see para. 13 following).

During the war years large amounts were set aside by the Railways as reserves, mainly to provide for depreciation and accrued leave, to be expended as circumstances permit. Particulars of these amounts, which were included in Working Expenses and which in the year 1942-43 aggregated nearly £10,000,000 and over the whole period about £30,000,000, are given in previous issues of the Official Year Book.

(ii) Working Expenses, Summary, 1950-51. The following table shows, for the year 1950-51, total working expenses classified according to the main four expenditure headings, together with the working expenses per route-mile and per train-mile and the proportion of working expenses to gross revenue:—

| System. | Mainten- ance of Way and Works. | Rolling Stock. | Trans- portation and Traffic. | Other. | Total. | Per Route- mile. | Per Train- mile. | Proportion of Working Expenses to Gross Revenue. |
|--|--|--|--|--|--|--|--------------------------------|---|
| New South Wales Victoria Queensland South Australia West In Australia Tasmania Commonwealth(a) | 352 | £'000. 18,901 7,031 9,303 4,915 4,306 879 1,349 | £'000. 11,359 5,417 4,756 2,479 1,846 418 379 | £'000. 10,555 4,610 1,214 1,068 1.350 360 149 | £'000. 49.168 20.810 19,427 9,992 8,932 2,009 2,434 | £ 8,043 4,440 2,961 3,914 2,112 3,278 1,106 | d. 310 343 251 376 300 233 317 | % 99.43 111.58 98.26 136.60 128.17 150.35 113.04 |
| Australia . | 20,128 | 46,684 | 26,654 | 19,306 | 112,772 | 4,184 | 305 | 106.75 |

(a) See para. 8, note (a) ante.

(iii) Totals. In the following table the total working expenses are shown for the years 1938-39 and 1946-47 to 1950-51:—

GOVERNMENT RAILWAYS: TOTAL WORKING EXPENSES. (£'000.)

| Year. | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tasmania. | C'wealth. | Australia. |
|---|--|---|---|--|--|--|--|---|
| 1938–39 1946–47 1947–48 1948–49 1949–50 | 14,543 25,886 31,015 35,738 39,280 49,168 | 8,060 12,916 15,225 17,815 19,983 20,810 | 6,193 10,191 10,640 14,164 15,857 19,427 | 2,931 5,045 5,947 7,237 8,440 9,992 | 2,911 4,424 5,526 6,612 7,387 8,932 | 678 1,253 1,455 1,613 1,728 2,009 | 642 1,224 1,439 1,777 1,979 2,434 | 35,958 60,939 71,247 84,956 94,654 112,772 |

(a) See para. 8, note (a) ante.

NOTE.—Details of working expenses under the main four headings are shown for the years 1941-42 to 1950-51 in Transport and Communication Bulletin No. 42.

12. Net Revenue.—The following table shows, for the year 1950-51, the net revenue, i.e., the excess of gross revenue over working expenses, the amount of such net revenue per route-mile open and per train-mile run, the interest on railway loan expenditure and the profit or loss after paying interest:—

GOVERNMENT RAILWAYS: NET REVENUE, INTEREST, AND PROFIT OR LOSS, 1950-51.

| | | | L 055, | | | | - |
|---|----|--|----------------|------------|-------------------------|---|--|
| | • | | Net Reve | enue. | | | 1 |
| System. | | Total. | Per Route-n | aile. | Per Train-mile. | Interest. | Profit or Loss. |
| New South Wales Victoria Queensland South Australia Western Australia Tasmania Commonwealth | | £'000. 280 -2,159 345 -2,677 -1,963 - 673 - 281 | | 464 098 | 4.46 100.71 66.03 | £'000. 5,620 2,069 1,586 1,028 717 162 295 | £'000. 5,340 4,228 1,241 3,705 2,680 835 (a)576 |
| Australia | •• | -7,128 | _ | 264 | - 19.29 | (b) 11,559 | -18,687 |

⁽a) See para. 8, note (a) ante. (b) Includes Commonwealth Government share of interest on Uniform Gauge Railway 1950-51. £82,375.

In the graphs accompanying this Chapter the gross and net revenue and working expenses are shown from 1870 to 1951.

- 13. Exchange.—Exchange on interest payments abroad and certain other charges are not included in the table above. These items are not charged against the railways in Queensland and Western Australia and have been excluded for the purposes of comparison. In the remaining States the amounts paid on account of exchange were:—New South Wales, £591,000; Victoria, £157,292; South Australia, £69,612; and Tasmania, £6,070.
- 14. Profit or Loss.—The following table shows, for the years 1938-39 and 1946-47 to 1950-51, the actual profit or loss after deducting working expenses and interest, but excluding exchange, from the gross revenue:—

GOVERNMENT RAILWAYS: PROFIT OR LOSS AFTER PAYMENT OF WORKING EXPENSES AND INTEREST.

| | | | · · · · · · · · · · · · · · · · · · · | . 000., | | | | |
|-----------------|--|--|---|---|---|--|--|--|
| Yea r , | n.s.w. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tasmania. | C'wealth. | Australia. |
| | | | · | | ! | | | |
| 1938–39 1946–47 | 43 - 659 746 -1,113 -4,509 -5,340 | - 636 -1,228 - 783 -2,437 -1,563 -4,228 | - 37 - 598 - 539 - 191 -1,322 -1,241 | - 886 -1,465 -1,869 -2,394 -2,951 -3,705 | - 313 -1,411 -2,023 -2,585 -2,188 -2,680 | -272 -460 -609 -676 -800 -835 | -490 -463 -519 -413 -402 -576 | - 2,718 - 6,366 - 5,678 - 9,892 -13,817 -18,687 |

(a) See para. 8, note (a) ante.

15. Traffic.—(i) General. Reference has already been made to the difference in the traffic conditions on many of the lines. These conditions differ not only in the several State and Commonwealth systems, but also on different lines in the same system, and apply to both passenger and goods traffic. By far the greater part of the population of Australia is confined to a fringe of country near the coast, more especially in the eastern

and southern districts. A large proportion of the railway traffic between the chief centres of population is therefore carried over lines in the neighbourhood of the coast, and is thus, in some cases, open to seaborne competition. In recent years competition from road and air transport has become an important factor.

The following table shows particulars for the years 1946–47 to 1950–51 in comparison with 1938–39:—

| GOVERNMENT | |
|------------|--|
| | |
| | |

| Year. | n.s.w. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tasmania. | C'wealth. | Australia | | | |
|--------------------------------|----------------|-----------|------------|-----------|------------|-----------|-----------|-----------|--|--|--|
| Passenger-journeys. ('000.) | | | | | | | | | | | |
| | 1 | | ı | | · · · · | Ī | | 1 | | | |
| 1938–39 | 186,720 | 142,123 | 24,639 | 17,529 | | 2,297 | 117 | 384,841 | | | |
| 1946–47 | 261,644 | 170,165 | 34,188 | 19,827 | 13,879 | 3,252 | 223 | 503,178 | | | |
| 1947-48 | 263,047 | 182,210 | 29,325 | 19,067 | 13,928 | 2,974 | 216 | 510,767 | | | |
| 1948-49 | 263,116 | 176,555 | 32,687 | 18,210 | 12,624 | 3,295 | 217 | 506,704 | | | |
| 1949–50 | 258,183 | 182,101 | 32,366 | 17,385 | 11,188 | 3,231 | 194 | 504,648 | | | |
| 1950–51 | 268,567 | 141,313 | 34,145 | 17,177 | 11,543 | 3,182 | 186 | 476,113 | | | |
| | Paggrage | TOTTON | maze Pan | AVEDAGI | Poum | MILE WOR | 7770 | <u> </u> | | | |
| | I ASSENG | *EK-JOUKD | | umber.) | s IVOUTE- | MILE WOI | ALLD. | | | | |
| 193839 | 30,541 | 29,896 | 3,752 | 6,854 | 2,608 | 3,490 | 53 | 14,134 | | | |
| 1946-47 | 42,697 | 35,839 | 5,207 | 7,784 | 3,192 | 5,074 | 101 | 18,513 | | | |
| 1947–48 | 42,925 | 38,563 | 4,470 | 7,486 | 3,203 | 4,844 | 98 | 18,832 | | | |
| 1948–49 | 42,986 | 37,469 | 4,983 | 7,150 | 2,921 | 5,366 | 99 | 18,714 | | | |
| 1949–50 | 42,235 | 38,811 | 4,934 | 6,820 | 2,631 | 5,270 | 89 | 18,705 | | | |
| 1950-51 | 43,934 | 30,150 | 5,205 | 6,728 | 2,730 | 5,191 | 85 | 17,663 | | | |
| | 1 | Goor | s and L | | CARRIE |) D. | ! | | | | |
| | | | (10) | oo Tons.) | | | | | | | |
| 1938-39 | 15,417 | 5,976 | 5,234 | 2,640 | 2,859 | 844 | 186 | 33,156 | | | |
| 1946-47 | 17,594 | 7,562 | 5,750 | 3,215 | 2,577 | 896 | 343 | 37,937 | | | |
| 1947-48 | 18,518 | 8,440 | 5,523 | 3,560 | 2,858 | 817 | 423 | 40,139 | | | |
| 1948–49 | 18,080 | 8,859 | 6,888 | 3,793 | 2,737 | 802 | 546 | 41,705 | | | |
| 1949-50 | 16,996 | 9,125 | 6,943 | 3,692 | 2,843 | 770 | 549 | 40,918 | | | |
| 1950-51 | 18,324 | 7,539 | 7,182 | 3,794 | 3,033 | 861 | 591 | 41,324 | | | |
| | Coope | Ema Can | nun Pen | Avenage | в Розив | MILE WO | DEED | | | | |
| | GOODS, . | EIC., CAR | | Tons.) | E IVOUIE | MILE WO | KED. | | | | |
| 1938-39 | 2,522 | 1,257 | 707 | 1,032 | 653 | 1,282 | 84 | 1,218 | | | |
| 1936-39 | 2,322 | | 797 876 | 1,032 | 593 | 1,398 | 156 | 1,396 | | | |
| 1940-47 | 3,022 | 1,593 | 841 | 1,398 | 593 657 | 1,390 | 192 | 1,480 | | | |
| 1947–40 | | 1,880 | 1,050 | 1,390 | | 1,331 | 248 | 1,540 | | | |
| 1940-49 | 2,954 2,780 | 1 . | 1,050 | 1,409 | 659 | 1,257 | 249 | 1,517 | | | |
| 1949-50 | 2,998 | 1,945 | 1,050 | 1,486 | 717 | 1,405 | 269 | 1,533 | | | |
| -200 Jr | 2,990 | 1,000 | 1,093 | 1,400 | /-/ | 1 -,403 | 209 | -,555 | | | |

⁽ii) Metropolitan and Country Passenger Traffic and Revenue, 1950-51. A further indication of the difference in passenger traffic conditions is obtained from the comparison of the volume of metropolitan and suburban and country traffic during 1950-51 shown below.

GOVERNMENT RAILWAYS: METROPOLITAN AND SUBURBAN AND COUNTRY PASSENGER TRAFFIC AND RECEIPTS, 1950-51.

| | | Pas | senger-journe ('ooo.) | eys. | Revenue. (£'000.) | | | |
|-------------------|-------|---------------------------------------|--------------------------|---------|---------------------------------------|----------|-----------|--|
| System. | | Metro- politan and Suburban. | Country. | Total. | Metro- politan and Suburban. | Country. | Total. | |
| New South Wales | • • • | (a) | (a) | 268,567 | (a) | (a) | (b)13,557 | |
| Victoria | | 134,344 | 6,969 | 141,313 | 3,647 | 2,783 | 6,430 | |
| Queensland | | 27,602 | 6,543 | 34,145 | 630 | 2,450 | 3,080 | |
| South Australia | | 15,619 | 1,558 | 17,177 | 381 | 717 | 1,098 | |
| Western Australia | | 10,034 | 1,509 | 11,543 | 186 | 645 | 831 | |
| Tasmania | | 2,136 | 1,046 | 3,182 | 35 | 133 | 168 | |
| Commonwealth | | | 186 | 186 | | 411 | 411 | |
| Australia | | (a) | (a) | 476,113 | (a) | (a) | 25,575 | |

(a) Not available.

(b) Estimated.

(iii) Goods Traffic. (a) Classification. Some indication of the differing conditions of the traffic in each system may be gained by an examination of the tonnage of the various classes of commodities carried, and of the revenue derived therefrom. The following table shows the number of tons of various commodities carried during 1950-51.

GOVERNMENT RAILWAYS: CLASSIFICATION OF COMMODITIES CARRIED, 1950-51.
('000 Tops.)

| | | , . | , | | | | |
|--|-----------------------------|--------------------|------------------------|---------|----------------|--------------------------------|--------|
| System. | Coal, Coke and Shale. | Other Minerals. | Grain and Flour. | Wool. | Live Stock. | All other Com- modities. | Total. |
| New South Wales | (a) | (a) | (b)1,461 | (c) 170 | (c)1,192 | 15,501 | 18,324 |
| Victoria | 1,120 | 145 | 1,750 | 74 | 496 | 3,954 | 7,539 |
| Queensland | 1,434 | 573 | $(d)_{2,707}$ | 73 | 752 | 1,643 | 7,182 |
| South Australia | 722 | 626 | 851 | 38 | 232 | 1,325 | 3,794 |
| Western Australia | 486 | 259 | 812 | 41 | 140 | 1,295 | 3,033 |
| Tasmania · | 153 | 52 | (a) | 3 | 27 | 626 | 861 |
| Commonwealth | 340 | 9 | 10 | . 5 | 80 | 147 | 591 |
| Australia | (e) | (e) | (e) | 404 | 2,919 | 24,491 | 41,324 |
| (a) Included with "All other Commodities". (b) Grain only. (c) Estimated | | | | | | | |

(a) Included with "All other Commodities". (b) Grain only. (c) Estimated. (d) Agricultural produce. (e) Not available.

(b) Revenue. The following table shows the revenue derived from goods and live stock to find during 1950 51.

stock traffic during 1950-51:— GOVERNMENT RAILWAYS: REVENUE FROM GOODS AND LIVE STOCK TRAFFIC. 1950-51. (6'000)

| (2 000.) | | | | | | | | | | | |
|-------------------|-------------------|-------|--------|-------------------|--------|---------------------|--------|--|--|--|--|
| | General | | Live | Mine | rals. | | | | | | |
| System. | Merchan- dise. | Wool. | Stock. | Coal and Coke. | Other. | Miscel- laneous. | Total. | | | | |
| New South Wales | (a) | (a) | 2,371 | (a) | (a) | (a) | 28,351 | | | | |
| Victoria | 8,095 | 262 | 696 | 687 | 109 | 143 | 9,992 | | | | |
| Queensland | 7,293 | 701 | 1,779 | 1,700 | 98o | (b)2,715 | 15,168 | | | | |
| South Australia | 2,993 | 137 | 386 | 250 | | (c) 472 | 5,305 | | | | |
| Western Australia | 4,112 | 151 | 248 | 480 | 228 | 143 | 5,362 | | | | |
| Tasmania | 471 | 9 | 44 | 172 | 84 | 328 | 1,108 | | | | |
| Commonwealth | 822 | 17 | 181 | 367 | 13 | 8 | 1,408 | | | | |
| Australia | (a) | (a) | 5,705 | (a) | (a) | (a) | 66,694 | | | | |

 ⁽a) Not available.
 £354,877.

(c) Includes wheat,

⁽b) Includes agricultural produce, £2,600,336.

⁽iv) Passenger-mileage and Ton-mileage. Particulars of passenger-mileage and ton-mileage in respect of the Government railways in Australia for the years 1938-39 and 1947-48 to 1950-51 are shown in the following tables.

(a) Passenger-mileage. The following table shows particulars of passenger-mileage in respect of the Government railways in Australia for the years 1938-39 and 1947-48 to 1950-51.

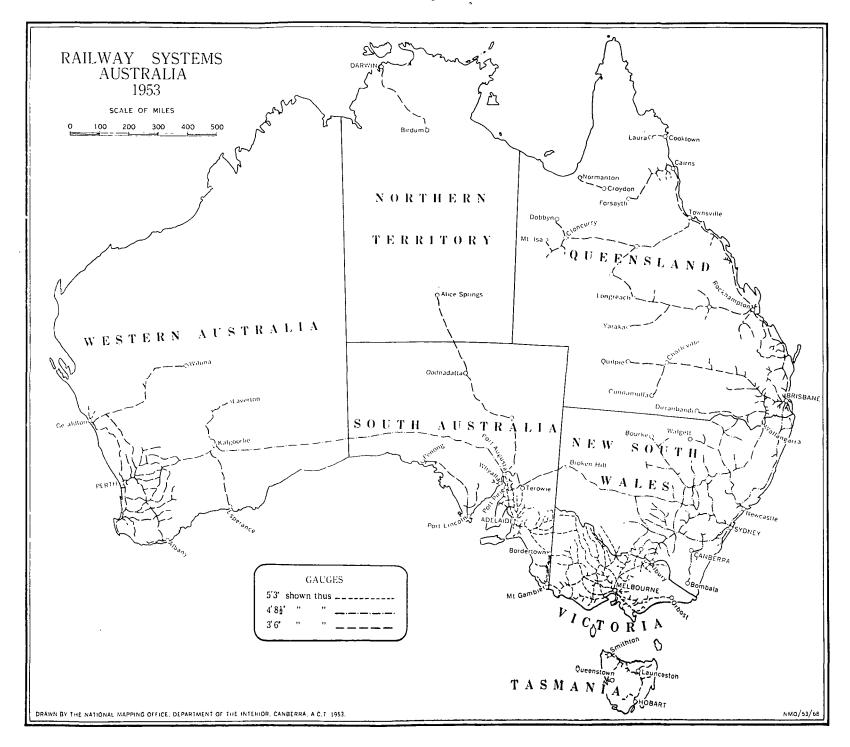
GOVERNMENT RAILWAYS: PASSENGER-MILEAGE SUMMARY.

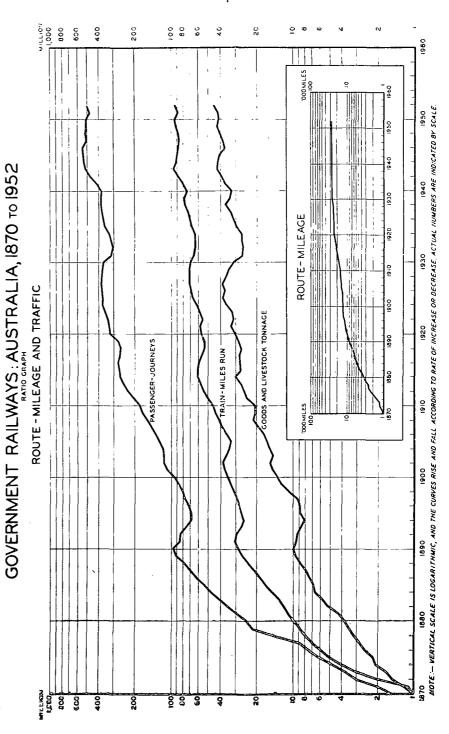
| | | : | : | | Passenger Earnings. | | | | |
|-------------------------------|-------------------------------|-------------------------------|--|---|---------------------|---|---------------------------------|--|----------------------------------|
| Year ended 30th June | Passenger Train- miles, | Total Passenger- miles. | Average Number of Passengers per Train- mile. | Average Mileage per Passenger- journey. | Gross. | Per Average Route- mile Worked. | Per Pas- senger- mile. | Per Pas- senger Train- mile. | Density of Traffic (a). |
| | ('000.) | ('000.) | ! | (Miles.) | (£'000.) | (£) | (d.) | (d.) | |
| | | · . | NE | w South | WALES | • | | - | |
| 1939 | 19,173 | 2,149,154 | 112 | 11.51 | 6,024 | | 0.67 | 75.41 | 351,526 |
| 1948 | (b) | (b) | (b) | (b) | c 11,689 | | (b) | (b) | (b) |
| 1949 | (b) | (b) | (b) | (b) | c 12,097 | | (b) | (b) | (b) |
| 1950 | (b) | (b) | (b) | (b) | C 12,114 | 1,982 | | (b) | (b) |
| 1951 | (b) | (b) | (b) | | C 13,557 | 2,218 | (b) | (b) | <u>(b)</u> |
| | , | | | Victor | | , — | | | |
| 1939 | 12,434 | 1,292,843 | 104 | 9.10 | 3,855 | 811 | 0.72 | 74.40 | 271,948 |
| 1948 | 10,960 | 1,838,932 | 168 | 10.09 | 6,448 | 1,365 | 0.84 | 141.31 | 389,192 |
| 1949 | 11,436 | 1,858,640 | 163 160 | 10.53 | 6,646 7,251 | 1,410 | 0.86 | 139.46 | 394,448 |
| 1950 1951 | 9,693 | 1,857,065 | 157 | 10.76 | 6,430 | I,547 | 1.02 | 159.21 | 395,794 324,537 |
| 1991 | 9,093 | 11,521,100 | | QUEENSI | · | -,5/- | | 1-331 | 13-47337 |
| | | (b) | (b) | (b) | 1,523 | 222 | (b) | 162 == | (b) |
| 1939 1948 | 5,750 | (b) | (b) | (b) | 2,282 | - | (b) | 63.55 98.64 | (b) |
| 1949 | 5,553 6,405 | (b) | (b) | (b) | 2,740 | 352 418 | (b) | 102.67 | (b) |
| 1950 | 6,409 | (b) | (b) | (b) | 2,739 | | | 102.56 | (b) |
| 1951 | 6,753 | (6) | (b) | (b) | 2,971 | 458 | | 105.59 | (6) |
| | | <u>'</u> | Sc | OUTH AUS | | | | | |
| 1939 | 3,747 | 212,982 | 57 | 12.15 | 600 | 235 | 0.68 | 38.45 | 83,281 |
| 1948 | 3,597 | 312,575 | 57 87 | 16.39 | 1,039 | 407 | 0.80 | 69.31 | 122,723 |
| 1949 | 3,363 | 307,241 | 91 | 16.87 | 1,075 | 422 | 0.84 | 76.87 | 120,628 |
| 1950 | 3,617 | 290,848 | 80 Bo | 16.73 | 1,064 | 417 | 0.88 | 70.83 | 114,102 |
| 1951 | 3,640 | 274,174 | 75 | 16.96 | 1,098 | 430 | 0.96 | 72.40 | 107,393 |
| | | | WE | STERN A | USTRALIA | ١. | | | |
| 1939 | 2,795 | (b) | (b) | (b) | 514 | 117 | (b) | 44.12 | (b) |
| 1948 | 3,107 | (b) | (b) | (b) | 860 | 198 | (b) | 66.46 | (b) |
| 1949 | 2,935 | 186,488 | 64 | 14.77 | 872 | 202 | 1.12 | 71.34 | 43,159 |
| 1950 | 2,476 | 175,152 | 69 | 15.66 | 831 | 195 | 1.14 | 80.53 | 41,192 |
| 1951 | 2,528 | 173,227 | 1 09 | 15.01 | 831 | 197 | 1.15 | 78.89 | 40,971 |
| ¥000 | 7.000 | 1 07 700 | 1 0. | TASMA | | 106 | 0.88 | 1 20 75 | 1 52 195 |
| 1939 1948 | 1,027 | 35,193 (b) | (b) 34 | 15.32 (b) | 129 221 | | (b) | 30.15 | 53,485 (b) |
| 1940 | 1,087 | (b) | . (b) | (b) | 193 | 359 314 | (b) | 42.72 | (b) |
| 1950 | 1,043 | 38,057 | 36 | 11.78 | 164 | 268 | 1.04 | 37.81 | 62,083 |
| 1951 | 949 | 38,200 | 40 | 12.00 | 168 | 274 | 1.05 | 42.49 | 62,316 |
| _ <u></u> | | <u> </u> | | MMONWE | | | | | |
| 1939 | 388 | 34,085 | 88 | 290.98 | 146 | 66 | 1.03 | 90.21 | 15,486 |
| 1948 | 454 | 67,685 | 149 | 312.62 | 329 | 149 | | 173.64 | 30,752 |
| 1949 | 473 | 63,669 | 135 | 293.53 | 367 | 167 | | 186.18 | 28,927 |
| 1950 | 464 | 58,335 | 126 | 300.69 | 378 | 172 | | 195.73 | 26,503 |
| 1951 | 533 | 60,700 | 114 | 326.18 | 411 | 187 | 1.63 | 185.07 | 27,578 |
| (a) T | otal passon | | | | | (1) 37 1 | | | Tatimated |

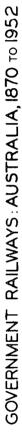
 ⁽a) Total passenger-miles per average route-mile worked.
 (b) Not available.
 (d) Excludes Queensland portion of Grafton-South Brisbane (Uniform Gauge) Line, controlled by Commonwealth Government.

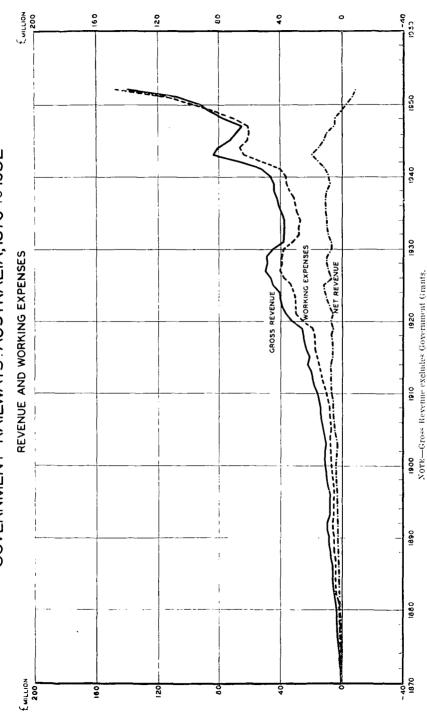
0

⁽c) Estimated. (c) Railways

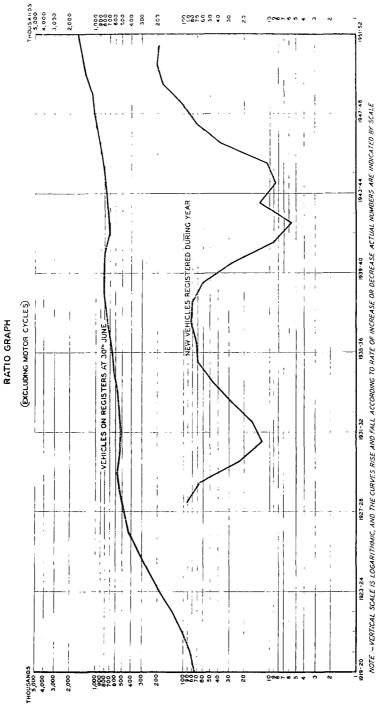








MOTOR VEHICLE REGISTRATIONS: AUSTRALIA, 1920 To 1952



(See pages 139-40.)

0

(b) Ton-mileage. Particulars of total ton-mileages are shown in the following table for each of the years 1938-39 and 1947-48 to 1950-51.

GOVERNMENT RAILWAYS: TON-MILEAGE SUMMARY.

| | | | , | | | | | | , |
|-------------------------------|---------------------------|---------------------------------------|--------------------------------------|--------------------------------|----------|---|----------------------|---------------------------------|-------------------------|
| | | | Average | | Goods | and Live | Stock Es | rnings. | |
| Year ended 30th June | Goods Train- miles. | Total Ton- miles, | Freight Paying Load per Train- mile. | Average Haul per Ton. | Gross. | Per Average Route- mile Worked. | Per Ton- mile. | Per Goods Train- mile. | Density of Traffic. (a) |
| | ('000.) | ('000.) | (Tons.) | (Miles.) | (£'000.) | (£) | (d.) | (d.) | |
| | | | | w South | WALES | | | | |
| 1939 | 10,933 | 1,760,534 | 161 | 115.95 | 10,356 | 1,694 | 1.41 | 227.34 | 287,961 |
| 1948 | (b) | 2,777,137 | (b) | 149.97 | 19,804 | 3,232 | 1.71 | (b) | 453,188 |
| 1949 | (b) | 2,834,875 | (b) | 156.80 | 21,597 | 3,528 | 1.83 | (b) | 463,139 |
| 1950 | (b) | 2,708,654 | | 159.37 | 1 | 3,581 | 1.94 | (b) | 443,097 |
| 1951 | (b) | 2,783,470 | (b) | 151.91 | 28,351 | 4,638 | 2.45 | $\frac{(b)}{a}$ | 455,336 |
| | | | | Victor | | | | | |
| 1939 | 5,455 | 760,485 | | 127.26 | | 899 | 1.35 | 11.881 | 159,967 |
| 1948 | | 1,154,631 | 197 | 136.81 | 7,992 | 1,689 | 1.66 | 327 - 34 | 244,371 |
| 1949 | | 1,167,582 | 197 | 131.80 | 8,596 | 1,824 | r.77 | 348.77 | 247,789 |
| 1950 | | 1,206,767 | 203 | 132.25 | 10,817 | 2,305 | | 436.12 | 257,197 |
| 1951 | 4,882 | 1,057,051 | 217 | 140.21 | 0,992 | 2,132 | 2.27 | 491.21 | , 225,528 |
| | | · · · · · · · · · · · · · · · · · · · | , | QUEENSI | LAND.(c) | | | | |
| 1939 | 8,073 | 745,351 | 92 | 147.57 | 5,404 | 823 | 1.73 | 160.67 | 118,248 |
| 1948 | 9,186 | 966,016 | 105 | 184.63 | 7,871 | 1,213 | 1.96 | 205.63 | 148,824 |
| 1949 | 10,870 | 1,140,694 | | 173.06 | 11,019 | 1,698 | | 243.28 | 175,735 |
| 1950 | 11,100 | 1,182,102 | | 177-61 | 11,514 | 1,774 | | 248.95 | 182,114 |
| 1951 | 11,592 | 1,252,442 | 108 | 182.48 | 14,752 | 2,273 | 2.83 | 305.42 | 192,951 |
| | | | S | OUTH AUS | STRALIA. | | | | |
| 1939 | 2,430 | 348,553 | 143 | 132.01 | 2,144 | 838 | | 211.72 | 136,293 |
| 1948 | 2,537 | 445,472 | 176 | 125.14 | 3,380 | 1,327 | | 318.75 | 174,901 |
| 1949 | 2,696 | 485,241 | 180 | 127.94 | 3,998 | 1,570 | | 355.88 | 190,515 |
| 1950 | 2,739 | 489,516 | 179 | 132.60 | 4,611 | 1,809 | | 404.08 | 192,042 |
| 1951 | 2,739 | 510,122 | 186 | 131.77 | 5,305 | 2,078 | 2.50 | 464.76 | 199,813 |
| | | | WE | STERN A | USTRALL | L | | | |
| 1939 | 3,779 | 378,089 | 100 | 132.24 | .2,807 | 641 | 1.78 | 178.26 | 86,393 |
| 1948 | 4,004 | 415,988 | 104 | 145.57 | 3,160 | 727 | 1.82 | 189.41 | 95,673 |
| 1949 | 4,101 | 393,525 | 96 | 143.79 | 3,635 | 841 | 2.22 | 212.69 | 91,073 |
| 1950 | 4,257 | 426,359 | 100 | 149.95 | 4,749 | 1,117 | | 267.72 | 100,273 |
| 1951 | 4,607 | 459,973 | 100 | 151.65 | 5,362 | 1,268 | 2.80 | 279.30 | 108,792 |
| | | | | TASMA | NIA. | | | | |
| 1939 | 880 | 38,088 | 43 | 46.80 | 296 | 450 | 1.87 | 80.76 | 57,885 |
| 1948 | 1,119 | 65,144 | 43 58 | 79.68 | 664 | 1,082 | 2.45 | 142.51 | 106,097 |
| 1949 | 1,105 | 67,327 | 6r | 83.95 | 785 | 1,279 | 2.80 | 170.48 | 109,653 |
| 1950 | 1,037 | 67,738 | 65 | 87.94 | 816 | 1,332 | 2.89 | 188.94 | 110,502 |
| 1951 | 1,122 | 79,915 | 71 | 92.78 | 1,108 | 1,807 | 3.33 | 236.97 | 130.367 |
| | | | Ce | OMMONWE | ALTH.(d) | | | | |
| 1939 | 514 | 34,801 | -68 | 187.28 | 224 | 102 | 1.54 | 104.38 | 15,811 |
| 1948 | 1,148 | 109,586 | 95 | 258.91 | 675 | 307 | 1.48 | 141.07 | 49,789 |
| 1949 | 1,194 | 123,122 | 103 | 225.38 | 1,059 | 481 | 2.06 | 212.70 | .55,939 |
| 1950 | 1,207 | 121,804 | 101 | 221.81 | 1,193 | 542 | 2.35 | 237.11 | 55,340 |
| 1951 | 1,308 | 133,747 | 102 | 226.19 | 1,408 | 640 | 2.53 | 258.42 | 60,767 |
| (a) T | otal ton-n | niles per av | erage route | e-mile wor | ked. | (b) Not | availabl | e. (| c) Excludes |

(a) Total ton-miles per average route-mile worked. (b) Not available. (c) Excludes Queensland portion of Grafton-South Brisbane (Uniform Gauge) Line. (d) Railways controlled by the Commonwealth Government.

16. Rolling Stock.—The following table shows the number of rolling stock of Government railways as at 30th June for each of the years 1939, 1950 and 1951. Further details may be found in the *Transport and Communication Bulletin*.

GOVERNMENT RAILWAYS: ROLLING STOCK.

| | , | | | 30 | th June- | - | | | |
|-------------------|-----------|-------------------------|-----------------|--------|-------------------------|-----------------|--------|-------------------------|-----------------|
| s . | | 1939. | | | 1950. | | 1951. | | |
| System. | Locos. | Coach- ing Stock. | Other Stock. | Locos. | Coach- ing Stock. | Other Stock. | Locos. | Coach- ing Stock. | Other Stock. |
| New South Wales | 1,284 | 2,808 | 24,257 | 1,153 | 2,849 | 26,302 | 1,159 | 2,891 | 27,246 |
| Victoria | 581 | 2,439 | 20,993 | | | 21,267 | | | 21,671 |
| Queensland | 752 | | 18,733 | | 1,430 | | | 1,424 | 22,557 |
| South Australia | 335 | | 7,966 | 335 | 595 | 8,591 | 344 | 592 | 8,790 |
| Western Australia | 427 | 475 | 11,110 | 421 | 448 | 11,136 | 439 | 429 | 11,047 |
| Tasmania | 95 | 225 | 2,120 | 92 | | | 101 | 201 | 2,474 |
| Commonwealth | 113 | 89 | 1,359 | 141 | 107 | 1,930 | | 111 | 1,929 |
| Australia | 3,587 | 8,043 | 86,538 | 3,536 | a 8,117 | 92,409 | 3,638 | a 8,120 | 95,714 |

⁽a) Includes, interstate coaching stock jointly owned by Victoria and South Australia 47 in 1950 and 48 in 1951.

17. Accidents.—The following table shows particulars of the number of persons killed and injured through train accidents and the movement of rolling stock on the Government railways of Australia for each of the years 1938-39, 1949-50 and 1950-51:—

GOVERNMENT RAILWAYS: ACCIDENTS.

| | - | 1938-39. | | 1949- | 50.(a) | 1950-51.(a) | | |
|-------------------|-------|----------|----------|---------|----------|-------------|----------|--|
| System. | Ï | Killed. | Injured. | Killed. | Injured. | Killed. | Injured. | |
| New South Wales | •• | 57 | 625 | 46 | 369 | 55 | 463 | |
| Victoria | | 48 | 466 | 58 | 482 | 67 | 513 | |
| Queensland | | 23 | 132 | 17 | 89 | 19 | 111 | |
| South Australia | ' | 9 | 187 | 9 | 122 | 16 | 83 | |
| Western Australia | | 14 | 142 | 22 | 149 ! | 19 | 231 | |
| Tasmania | | 7 | 62 | 1 | 24 | 4 | 14 | |
| Commonwealth | • • 1 | 1 | 20 | • • | 20 | 1 | 12 | |
| Australia | (| 159 | 1,634 | 153 | 1,255 | 181 | 1,427 | |

⁽a) Excludes accidents to railway employees.

18. Consumption of Coal and Oil.—The following table shows the quantities and values of coal and oil consumed by the various Government Railway Departments during 1950-51:—

GOVERNMENT RAILWAYS: COAL, OIL AND PETROL CONSUMED, 1950-51.

| Particulars. | N.S.W. | Vic. | Qld. | S. Aust. | W. Aust. | Tas. | C'wlth. | Aust. |
|---------------------------|----------------|--------|--------|-----------------------|----------|------|---------|------------|
| Coal | ¦ | | | | | | } | |
| Locomotives 'ooo tons | 1,427 | 302 | 702 | 244 | 364 | 72 | 72 | . 3,183 |
| £'000 | 2,959 | 1,201 | 1,177 | 907 | 653 | 152 | 347 | 7,396 |
| Other purposes 'ooo tons | 1,001 | 92 | 22 | 6 | 10 | (b) | i | 1,132 |
| £'000 | 2,564 | 349 | 51 | 19 | 17 | `´ I | 3 | 3,004 |
| Oil | , | | | _ | 1 1 | | , , | |
| Lubrication 'ooo gals. | (a) | 233 | 358 | (a) | 172 | 61 | 52 | (a) |
| £'000 | (a) | 44 | 82 | · (a) | 45 | 16 | 12 | (a) (a) |
| Diesel and Distillate | 1 | | | 1 | | | 1 1 | |
| 'ooo gals. | (a) | 97 | 167 | 66 | 2,899 | 258 | 3,135 | (a) |
| £'000 | (a) | 8 | 14 | ! 6 | 181 | 6 | 214 | (a) |
| Furnace Oil'ooo gals, | (a) | 15,032 | 315 | 15,106 | | | 252 | (a) |
| £'000 | (a) ' | 557 | 19 | 608 | | • • | rr | (a) |
| Other purposes 'ooo gals. | (a) | 1,80.I | 235 | (a) | 945 | 143 | 381 | (a) |
| £'000 | (a) | 96 | 25 | (a) | 82 | (a) | ' 3o l | (a) |
| Petrol— | | | | | | | '] | |
| Rail Cars 'ooo gals. | (a) | 213 | 126 | 420 | 56 1 | | 5 | (a) |
| £'000 | (a) | 28 | 17 | 52 | 1 7 | | ` (c) | (a) |
| \overline{a} | Not available, | | (b) 28 | (b) 287 tons. (c) £41 | |). | • | |

19. Staff Employed and Salaries and Wages Paid.—The following table shows details of the average staff employed and the salaries and wages paid by the Government railways of Australia during 1950-51:—

GOVERNMENT RAILWAYS 7: 7AVERAGE STAFF EMPLOYED, AND SALARIES AND WAGES PAID, 1950-51.

| System. | Number of | Operating Staff. | Number | of Constr Staff. | uction | Total Salaries and | Average Earnings Per Em- |
|-------------------|--------------|------------------|-----------|---------------------|--------|----------------------------|--------------------------------|
| | Salaried . V | Vages. Total. | Salaried. | Wages. | Total. | Wages Paid. (£'000.) | ployce. (£.) |
| New South Wales | 9,118 | 10,770 49,888 | 825 | 8,897 | 9.722 | 37,427 | 628 |
| Victoria | | 20,248 24,748 | | 2,003 | 2.448 | 15,042 | 553 |
| Queensland | 4,170 ! | 22,085 26,255 | 15 | 434 | 449 | 15,661 | 586 |
| South Australia | 1,920 | 8,189 10,109 | . 9 | 1,344 | 1,353 | 6,854 | 598 |
| Western Australia | 1,832 | 10,006 11,838 | | | | 6,658 | 562 |
| Tasmania | 318 , | 2,231 2,549 | 17 | 136 | 153 | 1,319 | 488 |
| Commonwealth | 296 | 2,176 2,472 | | 78 ' | 78 | 1,483 | 581 |
| Australia | 22,154 1 | 05,705 127,859 | 1,311 | 12,892 | 14,203 | 84,444 | 594 |

⁽a) In Victoria, Queensland and Western Australia a considerable amount of construction work is carried out by private contractors and the staff engaged are therefore not under the control of the Railways Commissioners.

C. TRAMWAYS.

1. Systems in Operation.—(i) General. Tramway systems are in operation in all the capital cities and in a number of the larger towns of Australia.

Since 1st April, 1947, when the last private company system to operate (the Kalgoorlie-Boulder electric tramway system in Western Australia) was taken over by the Eastern Goldfields Transport Board, all systems have been operated by governmental or municipal authorities. From 1941-42 all systems have been electric.

In many parts of Australia private lines used for special purposes in connexion with the timber, mining, sugar, or other industries are often called tramways, but they are more properly railways and the traffic on them has nothing in common with that of the street tramways for the conveyance of passengers, which are dealt with in the present section.

In recent years there has been considerable replacement of tramway services by omnibus services, one of the more recent of importance affecting the Newcastle system in New South Wales where the change was made on 11th June, 1950. Information on omnibus services is contained in Division D. of this chapter.

(ii) Total Mileage Open and Classification of Lines. The following tables show, for each State, the total mileage of tramway lines open for general passenger traffic at 30th June, 1951, classified (a) according to the controlling authority; (b) according to gauge:—

ELECTRIC TRAMWAYS: ROUTE-MILEAGE OPEN AT 30th JUNE, 1951. (Miles.)

| | | | | (1.11105.) | | | | |
|--|-----|----------|-----------|------------|----------|----------|------------|---------------------------------------|
| Particulars— | | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tas. | Aust. |
| | | Accordin | в то Се | ONTROLLIN | G AUTHO | ORITY. | | |
| Government Municipal | :: | 134 | 174 | 67 | 96 | 40 8 | 48 | 348 219 |
| Total | | 134 | 174 | 67 | 96 | 48 | 48 | 567 |
| | | | Accort | ING TO G | AUGE. | | | · · · · · · · · · · · · · · · · · · · |
| Gauge | | | | | | | | |
| 5 ft. 3 in. 4 ft. 8½ in. 3 ft. 6 in. | • • | 134 | 169 | 67 | | 48 | 48 | 466 96 |
| Total | | 134 | 174 | 67 | 96 | 48 | 48 | 567 |

2. Summary of Operations, Australia.—The following table is a summary of the working of all electric tramway systems in Australia for the years 1938-39 and 1946-47 to 1950-51:—

ELECTRIC TRAMWAYS; SUMMARY OF OPERATIONS, AUSTRALIA.

| Particulars. | 1938–39. | 1946-47. | 1947-48. | 1948–49. | 1949-50. | 1950-51. |
|--|----------|-------------|------------|------------|------------|------------|
| Average mileage open for traffic | | | | | | |
| Route-miles | 586 | 614 | 606 | 589 | 573 | 567 |
| Track-miles | 1,046 | 1,064 | 1,057 | 1,048 | 1,032 | 1,017 |
| Tramcars No. | 3,471 | 3,527 | 3,515 | 3,440 | 3,281 | 3.189 |
| Cost of construction and equip- | | | | | | 1 |
| ment £'000 | 26,275 | | (a) 27,293 | (a) 25,880 | | (a) 30,416 |
| Cost per route-mile £ | 44,827 | 44,083 | (a) 45,038 | (a) 44,014 | | (4) 53,644 |
| Gross revenue . £'000 | | (a) 11,210 | (a) 12,456 | (a) 12,347 | (a) 12,008 | (a) 13,765 |
| Working expenses ,, | 6,089 | 9,495 | (a) 11.392 | (a) 11,738 | | (a) 13,940 |
| Net revenue ,, | 1.560 | 1.715 | (a) 1,064 | (a) 609 | | (a) - 175 |
| Interest, | 909 | 628 | (n) 654 | (a) 507 | .(a) 480 | (a) 491 |
| Proportion of working expenses to gross revenue % | 6- | 0 | (a) a6 | (a) as as | (4) 00 06 | (a) 101.27 |
| Proportion of net earnings to | 79.60 | 84.71 | (a) 91.46 | (a) 95.07 | (a) 99.86 | (4) 101.27 |
| capital cost % | 5.94 | 6.33 | (a) 3.90 | (a) 2.35 | (a) 0.06 | (a) - 0.05 |
| Car-miles run 'ooo miles | 81,361 | 87,581 | 87,650 | 81,311 | 72.423 | 71.746 |
| Gross revenue per car-mile run | 01,301 | 07,501 | 07,030 | 01,311 | /4-3 | 72.740 |
| pence | 22.56 | (a) 30.72 | (a) 34.11 | (a) 36.44 | (a) 39.63 | (a) 45.82 |
| Working expenses per car-mile | ~~.50 | (4) 30.72 | (4) 34.11 | (4) 30.44 | (4) 39.03 | 43.02 |
| run pence | 17.96 | 26.02 | (a) 31.19 | (a) 34.64 | (a) 39.58 | (a) 46.40 |
| Net revenue per car-mile run | -7.90 | 40.54 | (4) 32.29 | (") 34.04 | (4) 39.30 | (4) 4:140 |
| pence | 4,60 | 4.70 | (a) 2.02 | (a) 1.80 | (a) 0.05 | (a) - 0.58 |
| Passenger-journeys '000 | | a 1,000,813 | (a)948.877 | (a)875.922 | (9)754,483 | (a)749,138 |
| Passenger-journeys per car-mile | 20.17 | . , . , . 3 | (| () | , 4 -, 1 | 1 7 17 3 |
| run No. | 8.55 | (a) 11.43 | (a) 10.83 | (a) 10.77 | (a) 10.42 | (a) 10.44 |
| Average gross revenue per | | | • | | | 1 |
| passenger-journey pence | 2,64 | (a) 2.69 | (a) 3.15 | (a) 3.38 | (4) 3.82 | (a) 4.41 |
| Persons employed at end of | | | | | | , |
| year No. | 17,207 | (b) 21,705 | (b) 22,266 | (b) 19,015 | (b) 17.56r | (b) 16,566 |
| Accidents- | | | | | | į |
| Persons killed | 61 | 113 | 90 | 81 | 61 | 71 |
| " injured | 2,750 | 6,704 | 5,939 | 5,518 | 4.9 12 | 5.409 |
| " injured | 2,750 | 6,704 | 5,939 | 5,518 | 4.9 12 | 5.409 |

⁽a) Includes particulars of Hobart Municipal Council Omnibus Service. (b) Includes motor omnibus employees, South Australia, Western Australia and Hobart Municipal Council Omnibus Services.

3. Traffic and Accidents.—Particulars of the traffic of electric tramways and the accidents which occurred in the movement of rolling stock are shown in the following table for each State during 1950-51:—

ELECTRIC TRAMWAYS: TRAFFIC AND ACCIDENTS, 1950-51.

| State. | | Average Mileage Open for Traffic | | Number of Tram- cars. | Car- miles Run. | Pas- senger- journeys. | Average Number of Pas- sengers per Car- | Accidents. | |
|---|--|-------------------------------------|--------------------------------------|-----------------------------|---|------------------------------|--|--------------------------|---|
| | | Route- miles. | Track- miles. | | | : | mile. | Killed. | Injured. |
| New South Wales Victoria Queensland South Australia Western Australia Tasmania | | 134 174 67 96 48 48 | 253 322 122 166 82 72 | 870 425 321 164 | , 000. (a)24,065 23,411 9,350 9,203 3,438 2,279 | 68.737 | 10.52 11.02 11.59 7.47 10.02 (?)10.11 | 17 34 6 11 2 | 3,509 1,060 348 169 274 49 |
| Australia | | 567 | 1,017 | 3,189 | 71,746 | 749,138 | (c)10.44 | 71 | 5.409 |

⁽a) Estimated. (b) Includes passengers carried by Hobart Municipal Council Omnibus Service. (c) Calculated from tramear-miles plus Hobart Municipal Council omnibus-miles.

- 4. State Details.—(i) General. For details of the various systems operating in the several States see Official Year Book No. 37 and issues prior to No. 32.
- (ii) Summary of Operations. The following table shows particulars of the working of electric tramways in each State of Australia for the years 1946-47 to 1950-51 in comparison with the year 1938-39:—

ELECTRIC TRAMWAYS: SUMMARY OF OPERATIONS.

| | | | | | | | | | | | |
|-------------------------------|--|---|------------------------|-------------------|----------------------|----------------|---|--------------|-------------------------|--|--|
| Year ended 30th June | Mileage Open for Traffic at 30th June. | Cost of Con- struction and Equip- | Gross Rev- enue. | Working Expenses. | Net Rev- enue. | In- terest. | Pro- portion of Working Ex- penses to Gross Revenue | Run. | Passenger- journeys. | Persons em- ployed at end of year. | |
| | (Route-miles.) | (£'000.) | (£'000.) | (£'000.) | (£'000.) | (£'000. | (Per cent.) | ('000.) | ('000.) | | |
| NEW SOUTH WALES. | | | | | | | | | | | |
| | | | | | | | | | | | |
| 1939 | 182 | 8,944 | 3,449 | 3,080 | 369 | 310 | 89.30 | 34,941 | 322,238 | 8,062 | |
| 1947 | 172 | 8,736 | 4,360 | . 1737 | - 18 | 220 | | a 34,700 | 408,388 | 9,760 | |
| 1948 | 171 | 8,754 | 5,310 | 5,378 | - 68 | 239 | 101.28 | a 34,500 | | 9,651 | |
| 1949 | 158 | | 5,098 | | -161 | 159 | 103.15 | a 29,600 | 317,310 | (b)6,433 | |
| 1950 | 153 | 6,891 | 4,984 | 5,280 | -296 | 155 | 105.94 | a 26,368 | | (b) 5,785 | |
| 1951 | 1734 | 6,865 | 5,162 | 5,892 | -730 | 140 | 114.14 | a 24,065 | 253,170 | (h) 5,367 | |
| VICTORIA. | | | | | | | | | | | |
| 1939 | 166 | 8,086 | 2,112 | 1,388 | . 724 | 254 | 65.72 | 1 22,803 | 175,198 | 4,355 | |
| 1947 | 172 | 9,120 | | 2,324 | 1,103 | 111 | 67.82 | 24,830 | 285,450 | , | |
| 1948 | 172 | 9,276 | 3,332 | 2,593 | 739 | 107 | 77.83 | 25,002 | 279,451 | 5,728 | |
| 1949 | 172 | 9,522 | 3,470 | 2,970 | 500 | 74 | 85.60 | 25,563 | 290,081 | 5,631 | |
| 1950 | 172 | 9,815 | | 2,894 | 211 | 63 | 93.22 | 20,666 | 225,049 | 5,156 | |
| 1951 | 174. | 10,286 | 4,190 | 3,591 | 599 | 75 | 85.70 | 23,41.1 | 257,888 | 4,860 | |
| | QUEENSLAND. | | | | | | | | | | |
| | 1 | | | | 1 | · | 7 | | | | |
| 1939 | 60 | 2,391 | 831 | 632 | 199 | 120 | 76.05 | 8,100 | 91,444 | 1,911 | |
| 1947 | 64 | 2,575 | r,337 | 1,034 | 303 | 89 | 77 . 32 | 10,227 | 135,757 | 2,521 | |
| 1948 | 64 | 2,962 | 1,508 | 1,221 | 287 | 91 | 80.98 | 10,314 | 132,107 | 2,650 | |
| 1949 | 66 | 2,699 | 1,531 | 1,246 | 285 | 94 | 81.40 | 10,085 | 125,587 | 2,654 | |
| 1950 | 66 | 2,692 | 1,526 | 1,359 | 167 | 97 | 89.09 | 9,545 | 115,239 | 2,517 | |
| 1951 | 67 | 4,872 | 1,675 | 1,517 | 158 | 105 | 90.61 | 9,350 | 108,359 | 2,475 | |
| South Australia. | | | | | | | | | | | |
| | ! | i | ·· · · · · | | Ī | <u> </u> | T | 1 | | (b) | |
| 1939 | 78 | 4,438 | 711 | 494 | 217 | 154 | 69.48 | 8,712 | 52,906 | 1,750 | |
| 1947 | 99 | 3,975 | 1,228 | 1,019 | 209 | 147 | 82.92 | 9,757 | 83,365 | | |
| 1948 | 96 | 4,013 | | 1,244 | 173. | 151 | 87.77 | 9,674 | 76,819 | 2,310 | |
| 1949 | 96 | 4,107 | | 1,287 | 33 | 112 | 97.47 | 8,924 | 71,876 | 2,436 | |
| 1950 | 96 | 4,225 | 1,469 | 1,504 | - 35 | 113 | 102.36 | 9,420 | 71,390 | 2,343 | |
| 1951 | 96 | 5,417 | 1,670 | 1,888 | -218 | L2.2 | 113.07 | 9,203 | 68,737 | 2,405 | |
| | | | | See follo | ring page | o for foo | tnotes | | | | |

See following page for footnotes.

ELECTRIC TRAMWAYS: SUMMARY OF OPERATIONS-continued.

| Year ended 30th June | Mileage Open for Traffic at 30th June. (Route- miles.) | Cost of Con- struction and Equip- ment. | Gross Revenue. | Working Expenses. | Net Revenue. | terest. | Proportion of Working Expenses to Gross Revenue. (Per cent.) | Run. | Passenger- journeys. | Persons em- ployed at end of year. |
|-------------------------------|--|--|-------------------|-------------------|-----------------------|---------|---|---------|-------------------------|--|
| Western Australia. | | | | | | | | | | |
| | - | | | ; | | | | | | į |
| 1939 | 71 | 1,752 | 367 | | 25 | 44 | 93.19 | 4,756 | 38,095 | 792 |
| 1947 | 69 | , , | 535 | | _9 | 48 | | 5,361 | | (c) 1,196 |
| 1948 | 68 | , ,,,,,, | 550 | | -85 | 52 | | 5,431 | | (c) 1,238 |
| 1949 | 60 | 1,469 | 550 | | -77 | 53 | 114.09 | 4,555 | | (c) 1,209 |
| 1950 | 51 | | 530 | | 69 | 33 | | 4,009 | 38,977 | (c) 1,127 |
| 1951 | 48 | 1,569 | 574 | 585 | -11 | 24 | 101.89 | 3,438 | 34,443 | 820 |
| | Tasmania. | | | | | | | | | |
| 1939 | 29 | 664 | 179 | 153 | 26 | 27. | 85.47 | 2,049 | 15,595 | 337 |
| 1947 | 38 | 792!(| | 214 | 109 | 13 | 66.37 | | (d) 34,837 | |
| 1948 | 35 | | | (d) 321 | | | 94.62 | 2,729 | | |
| 1949 | 36 | | | (d) 349 | | | $l_{92.19}$ | 2,584 | | |
| 1950 | | (d)1,039 (| d) 394 | (d) 356 | (c) 38 (| | l_{1} 90.30 | 2,415 | | |
| 1951 | 48 | (d)1,407¦(| <i>d</i>) 494] | d) 467 | (c) 27 _j (| d) 25 (| 4 94.51 | 2,279 | (d) 26,541 | (d) 639 |
| ' | - 1 | ' | | ! | | | | , | | |
| Australia.(e) | | | | | | | | | | |
| 1 | - 1 | | | 1 | _ 1 | | | | | |
| 1939 | 586 | 26,275 | | 6,089 | 1,560 | 909 | 79.60 | 81,361 | 695,476 | 17,207 |
| 1947 | 614 | 27,067 | 11,210 | 9,495 | 1,715 | 628 | 84.71 | 87,581 | 1,000,813 | 21,705 |
| 1948 | 606 | 27,293 | 12,456 | | 1,064 | 654 | 91.46 | 87,650 | 948,877 | 22,266 |
| 1949 | 588 | 25,880 | | 11,738 | 609 | 507 | 95.07 | 81,311 | 875,922 | 19,015 |
| 1950 | 574 | 26,219 | | 11,992 | 16 | 480 | 99.86 | 72,423 | 754,483 | 17,561 |
| 1951 | 567 | 30,416 | 13,765 | 13,940 | -175 | 491 | 101.27. | 71,746 | 749,138 | 16,56 6 |
| _ | | - · · · · <u>· ·</u> | | | | | | 1 | | |
| | Estimated | | | | | | | | ween bus a | |
| services. | (c) | DOCUME | MUNTAR OF | ninns e | HIDIOVER | . (| a incilid | S HODST | t Municipal | raune)! |

⁽a) Estimated. (b) Excludes administrative staff not distributable between bus and tram services. (c) Includes motor on nibus employees. (d) Includes Hobart Municipal Council Omnibus Service. (e) See notes (a) to (d).

D. MOTOR OMNIBUS SERVICES.

1. General.—Motor omnibus services have been in operation for some years in the capital cities and some of the larger towns of the States of Australia, and in the Australian Capital Territory.

Governmental and municipal authorities operate certain services and the others are run by private operators; in the States the former are run in conjunction with the existing electric tramway systems.

2. Government and Municipal Services,—(i) Summary of Operations, 1950-51. The following table is a summary of the operations during the year ended 30th June, 1951 of omnibus systems controlled by governmental and municipal authorities.

MOTOR OMNIBUS SERVICES: GOVERNMENT AND MUNICIPAL, 1950-51.

| Particula | ırs | N.S.W. | Vic. | Qld. | S.A. | W.A. | Tas. | A.C.T. | Aust. |
|--|---|---------------------------------------|-------|--|--|-------------------------|--------------------------------------|-----------------------------------|-------|
| Length of route Buses Capital cost Gross revenue Working expenses Bus-mileage run Passenger-journeys Persons employed | miles No. £'000 £'000 £'000 '000 miles '000 No. | 5,530 5,110 (b) 5,558 32,217 | 7,626 | 333, 221 1,059 530 487 4,342 29,509 481 | 23! 93 465' 172, 229, 1,516 6,699 (d) | 511 (480 (5,305 | a) 258 a) 164 1,941 a)4,921 | 276 104 139 948 5,148 | |

⁽a) Excludes Hobart Municipal Council Service. (b) Includes estimate of administrative and general charges. (c) Excludes administrative staff not distributable between omnibus and tram services. (d) Not available, employees interchangeable with Electric Tramways and included therein (Division C). (e) Excludes 450 Government employees. (f) Excludes employees of Hobart Municipal Council Service who are interchangeable with Electric Tramways and included therein (see Division C.). (g) See notes (c) to (f).

(ii) Summary of Operations, Australia. The following table is a summary of the working of motor omnibus services in Australia under governmental and municipal control during the five years ended 1950-51.

MOTOR OMNIBUS SERVICES: GOVERNMENT AND MUNICIPAL, AUSTRALIA.

| | (1 | | | · | |
|---|-------------|-----------|-----------------------|------------|-----------|
| Particulars. | 1946-47. | 1947-48. | 1948-49. | 1949-50. | 1950~51. |
| | - | | | , | |
| Length of route miles | 1,062 | 2,454 | 3,268 | 3,208 | 3,994 |
| Buses No. | | 1,423 | | 1,962 | |
| Capital cost £ 000 | 2,842 (| (1) 4,745 | (a) 6,867 | (a) 7,945 | (a) 9,603 |
| Gross revenue £'000 | (a) 2,725 (| a) 3,862 | (a) 5,409 | (a) 6,394 | (a) 7,717 |
| Working expenses £'000 | 3,000 (| a) 4,109 | (a) 5,690 | (a) 6,579 | (a) 8,099 |
| Net revenue L'000 | -275 | a) -247 | (a) - 191 | (a) - 185 | (a) -382 |
| Proportion of working expenses to gross | | | | | |
| revenue per cent. | 110.11.0 | ı 106.39' | a 103.47 | a 102.89 | a 104.94 |
| Proportion of net revenue to capital | 1 | - | | . 1 | |
| cost per cent. | -9.74a | ı −5.21 | a - 2.78 | a - 2.32 | a - 3.98 |
| Bus-mileage run 'ooo miles | | 37,929 | 48,958 | 54,102 | 53,895 |
| Gross revenue per bus-mile run pence | (a) 20.62 (| a) 24.44 | (a) 27.08 | (a) 28.51 | (a) 34.59 |
| Working expenses per bus-mile run | | | | | |
| pence | 22.70 | a) 26.00 | (a) 28.02° | (a) 29.33 | (a) 36.30 |
| Net revenue per bus-mile run pence | -2.08/1 | -1.56 | a - 0.94 | a - 0.82 | a - 1.71 |
| Passenger-journeys '000 | a 214,684 a | 1 249,563 | a 309,096 | a 325,079¦ | a 340,314 |
| Passenger-journeys per bus-mile run | (a) 6.77 | a) 6.58 | (a) 6.34 | (a) 6.04 | (a) 6.36 |
| Average gross revenue per passenger- | | _ (| 1 | | · · · · |
| journey pence | (c) 3.05 (| a) 3.71 | (d) 4.27 ⁵ | (a) 4.72 | (a) 5.44 |
| Persons employed (b) No. | (a) 4,697 (| a) 6,200 | (a) 7,077 | (a) 7,721 | (a) 7,720 |
| | | | | 11 | |

⁽a) Excludes Hobart Municipal Council Service. (b) See relevant notes to table above.

In New South Wales, particulars are compiled for the Metropolitan and Newcastle Transport districts only, and in Victoria for the Metropolitan district only, but in South Australia and in Western Australia all operators throughout the State are represented.

^{3.} Private Services.—(i) General. Particulars of motor omnibus services under the control of private operators are recorded in the States of New South Wales, Victoria, South Australia and Western Australia only.

(ii) Summary of Operations. The following table shows the operations of motor omnibus services under the control of private operators in New South Wales, South Australia and Western Australia during the five years ended June, 1951 and in Victoria during the years 1949, 1950 and 1950-51:—

MOTOR OMNIBUS SERVICES: PRIVATE.

| | | Buses. | Cost. (£'000.) | Revenue. | Run. ('ooo miles.) | journeys. | Persons Employed |
|---------------------------------------|-----|---------------|-------------------|------------|---|-----------|---------------------|
| | | | New So | UTH WALES | 3.(a) | | |
| 1946-47 | | 615 | 569 | 1,065 | 14,261 | 73,703 | 1,085 |
| 1947-48 | | 673 | 783 | 1,278 | 15,626 | 77,985 | 1,234 |
| 1948-49 | | 740 | 881 | 1,505 | 17,490 | 86,859 | 1,327 |
| 1949-50 | | 795 | 928 | 1,698 | 17,666 | 98,030 | 1,437 |
| 1950–51 | • • | 823 | 1,032 | 1,995 | 18,221 | 99,740 | 1,418 |
| | | . | Vic | CTORIA.(b) | | | |
| 1949(c) | | 430 | (d) | 1,169 | 17,223 | 72,311 | 1,047 |
| 1950(c) | | 437 | (\vec{d}) | 1,351 | 18,968 | 83,288 | 1,031 |
| 950-51 | | 425 | (d) | 1,414 | 19,292 | 83,628 | 1,027 |
| · · · · · · · · · · · · · · · · · · · | | | South | AUSTRALIA | <u>i. </u> | - | |
| | | (b) | | | | | |
| 1946–47 | | 81 | (d) | 399 | 4,929 | 8,465 | (d) |
| 1947-48 | | ' 90 | (d) | 457 | 5,362 | 9,774 | (d) |
| 1948–49 | ٠. | 104 | (d) | 515 | 5,645 | 10,836 | (d) |
| 1949-50 | | 112 | (d) | 530 | 5,900 | 11,496 | (d) |
| 1950-51 | • • | 116 | (d) | 573 | 6,031 | 12,470 | (d) |
| | | | WESTER | n Austral | IA. | | |
| 1946-47 | | 276 | 309 | 642 | 9,210 | 27,699 | 758 |
| 1947–48 | | 317 | 455 | 721 | 10,214 | 28,048 | 865 |
| 1948–49 | | 356 | 591 | 844 | 11,318 | 30,931 | 937 |
| 1949-50 | | 396 | 7 3 6 | 1,002 | 13,027 | 34,998 | 1,011 |
| 1950-51 | | 399 | 767 | 1,106 | 12,645 | 34,346 | 1,050 |

E. FERRY (PASSENGER) SERVICES.

- 1. General.—Ferry services to transport passengers are operated in Sydney and Newcastle, New South Wales, on the Swan River at Perth in Western Australia, and on the Derwent River at Hobart and in Devonport, Tasmania. Control is exercised both by Governmental authorities and by private operators. In Victoria and Queensland the services operated are not extensive, and there are no ferry services in South Australia.
- 2. Summary of Operations.—The operations of ferry passenger services in New South Wales, Western Australia and Tasmania during the years 1946-47 to 1950-51 are summarized in the following table. For New South Wales and Western Australia details are also shown for the year 1938-39 Particulars of passengers carried on vehicular ferries are not included.

| | Year. | | Number of Vessels. | Passenger- accom- modation. (No.) | Passenger- journeys. ('000.) | Gross Revenue (£.) | Persons Employed. |
|------------|-------|------|-----------------------|--|------------------------------------|--------------------------|--|
| | New | Sou | TH WALES- | -Sydney at | ND NEWCAS | TLE. | <u>' </u> |
| 1938-39 | | | 54 | 38,971 | 27,864 | 418,500 | (a) 830 |
| 1946-47 | | | 46 | 28,591 | 31,558 | 471,976 | 452 |
| 1947-48 | | | 47 | 28,808 | 28,319 | 502,947 | 437 |
| 1948-49 | | | 46 | 27,759 | 23,314 | 558,390 | 411 |
| 1949–50 | • • | | 44 | 26,477 | 21,914 | 534,853 | 403 |
| 1950-51 | • • | | 39 | 22,793 | 20,274 | 612,661 | 389 |
| | | 1 | Vestern A | USTRALIA- | PERTH. | | |
| 1938-39 | ••• | | 6 | 880 | 1,184 | 11,001 | 25 |
| 1946-47 | | | 7 | 1,022 | 1,367 | 13,007 | 25 |
| 1947-48 | | | 6 | 957 | 1,375 | 13,354 | 28 |
| 1948-49 | | | 3 | 727 | 928 | 11,955 | 21 |
| 1949-50 | | | 4 | 811 | 909 | 12,669 | 20 |
| 1950-51 | • • | • •. | 4 | 785 | 712 | 10,311 | 18 |
| | | | T | ASMANIA. | | | |
| 1946-47(b) | •• | | 7 | 1,348 | 974 | 16,029 | 32 |
| 1947-48 | | | 7 | 1,362. | 987 | 17,066 | 31 |
| 1948-49 | | | 7 | 1,362 | 978 | 17,664. | 30 |
| 1949-50 | | | 7 | 1,570 | 980 | 19,782 | 30 |
| 1950-51 | | | 7 | 1,570 | 966 | 20,002 | 31 |

⁽a) Includes administrative staff.

F. MOTOR VEHICLES.

- r. Motor Industry.—Chapter XXIV.—Manufacturing Industry of this Year Book contains summarized information on the motor industry of Australia and includes therein some data on the imports of motor bodies and chassis. Chapter VI.—Trade contains further data on imports, including those of petroleum products.
- 2. Registration.—(i) General. The arrangements for the registration of motor vehicles and the licensing of drivers and riders are not uniform throughout Australia. The following statement indicates the procedure followed at 30th June, 1952 in each of the States and Territories, and the fees for registration and licensing and the amount of motor tax payable where such tax is not incorporated in the registration fees. Complete or partial exemption from the payment of registration fees or motor tax is usually granted for certain vehicles, such as ambulances, fire-brigade vehicles, those owned by farmers and used solely for carting the produce of, or requisites for, their farms, Governmentowned vehicles, etc.

Before a licence to drive a motor vehicle or ride a motor cycle is issued the applicant must, by passing the prescribed test, satisfy the competent authority that he is capable of driving or riding the vehicle concerned. All vehicles, before being registered, must be tested for road-worthiness.

(ii) New South Wales. The registration of vehicles, licensing of drivers, and collection of various taxes, fees and charges are functions of the Superintendent of Motor Transport. By arrangement with the Superintendent of Motor Transport, the police effect the registrations and collect the taxes and fees in certain areas. The normal term of registrations and licences and renewals thereof is a year, but quarterly registrations of motor vehicles are permitted under certain conditions.

A driver's licence costs 15s. per annum for a motor vehicle and a rider's licence ros. per annum for a motor cycle. A learner's permit, which has a currency of two months, costs 5s.

⁽b) Particulars are not available for 1938-39.

Annual registration fees are as follows: -Motor cycles, 10s.; motor cars, lorries, trailers and tractors, £1 5s.; taxi-cabs and hire cars, metropolitan and Newcastle, £2, country, £1 10s.; motor omnibuses, metropolitan area and Newcastle, £3, country, £2; traders' plates, motor cycles, £2, other vehicles, £8. An additional fee of 5s. per annum is payable in respect of any vehicle used in trade or business.

A motor tax is payable in addition to the registration fee. For motor cycles the tax is:—without side-car, £1 78.; with side-car or box, £2 78.6d. For vehicles other than motor cycles, the tax is payable on the unladen weight of the vehicle. The taxes payable for different classes of vehicles are as follows:-

- (a) Motor Cars (including taxi-cabs, etc.). The rate commences at 3s. 6d. per ½ cwt. but decreases slightly as the weight of the vehicle increases.
- (b) Motor Lorries and Trailers. The tax payable commences at £1 15s. for a vehicle of 5 cwt. or less, and rises by a proportionately greater amount for each increase of 5 cwt., so that the average amount payable per cwt. increases with the weight of the vehicle.
- (c) Tractors. The rates of tax are the same as for motor lorries, subject to a maximum of £31 14s. 6d.
- (d) Motor Omnibuses. The rate commences at 5s. per ½ cwt., but decreases slightly as the weight of the vehicle increases.

In the case of vehicles with solid rubber tyres, the rates shown above are increased by 25 per cent. Double the ordinary rates of tax are payable in respect of vehicles powered by a diesel engine.

(iii) Victoria. The registration of motor vehicles and the licensing of drivers and riders is controlled by the Chief Commissioner of Police under provisions of the Motor Car Act 1951. The fees payable per annum for the registration of motor vehicles and licensing of drivers and riders are as follows :-

Motor cycles (without trailer,

fore-car or side-car attached)

Motor cycles (with trailer, etc.) £1 10s.

Motor cars (private use)

3s. for each power-weight unit. (The number of power-weight units equals the sum of the horse-power and the weight in cwt. of a motor car unladen and ready for use.)

Trailers attached to motor cars

£1 to £4, according to the unladen weight and type of tyres.

Motor omnibuses (operating on specified routes in the metropolitan area)

£5 plus additional fees for each passenger seat.

Motor cars used for carrying passengers or goods for hire or in the course of trade

From 3s. 9d. to 8s. 9d. for each power-weight unit according to the unladen weight and type of tyres. Rates are 10 per cent. less where the vehicle is wholly of British or Australian manufacture or part British, part Australian.

Motor cars (constructed for the carriage of goods) owned by primary producers and used solely in connexion with their business

From 2s. to 5s. 3d. for each power-weight unit according to the number of wheels and type of tyres.

Drivers' and riders' licences ...

Where a vehicle is powered by a diesel engine the registration fee is double that charged for a vehicle of the same power-weight units fitted with a petrol engine.

(iv) Queensland. The Main Roads Department controls the registration of motor vehicles within the State. The rates operating from 8th February, 1952, are as follows :--Annual registration fees for pneumatic-tyred vehicles are determined by adding the horse-power to the weight in ewt. of the vehicle ready for use, and charging 6s. per unit. For solid-tyred vehicles the sum of the horse-power, weight of the vehicle, and maximum

1 .. .

permissible load (in cwt.) is charged at 5s. per unit if the capacity is not over 2 tons, and 9s. per unit if over 2 tons. Vehicles fitted with compression ignition (diesel) engines are charged at double the foregoing rates, with the exception of vehicles whose capacity does not exceed 2 tons, where the rate is 9s. 9d. per unit. Registration fees for trailers are determined at the rate of 6s. per cwt., and for caravan trailers at the rate of 9s. per cwt. Traction engines are registered at the fixed rate of £3 3s. per year. The fees payable according to these rates on motor cars range from £4 16s. to approximately £25. On pneumatic-tyred trucks and utilities, the fees are from about £12 12s. to over £15 for a truck with a capacity of 1 ton, and up to £30 for 5-ton trucks. Fees for motor cycles are £2 5s., or £3 8s. with a side-car. With the above-mentioned fees, an annual driving fee of 7s. 6d. for a private motor vehicle or motor cycle or 12s. 6d. for a commercial vehicle must be paid to the Main Roads Department.

The driver of any motor vehicle or the rider of any motor cycle must hold a licence from the Commissioner of Police. Licences are endorsed according to the types of vehicles in the operation of which the holder has shown proficiency and which he or she is permitted to operate. The period of currency of a licence varies according to the age of the applicant, viz. :—Aged under 41 years, 10 years; 41 years and under 46 years, until 51st birthday; 46 years and under 62 years, 5 years; 62 and under 66 years, until 67th birthday; 66 years and over, 1 year.

- (v) South Australia. Under the provisions of the Road Traffic Act 1934-1951, the Registrar of Motor Vehicles controls the registration of all motor vehicles and the granting of licences. The fee prescribed for a motor vehicle propelled by a compression ignition (diesel) engine is double that for a vehicle of the same horse-power and weight propelled by a petrol engine. The power-weight unit is the basis for the calculation of registration fees. The period of registration is for six or twelve months, commencing with the date of registration. Commercial vehicles of declared British origin are registered at a discount of 10 per cent., whilst primary producers' vehicles are registered at 50 per cent. of the ordinary fee. The ordinary fees payable for yearly registration of motor vehicles, other than motor cycles and trailers, extend from a minimum of £4 for 25 power-weight units or less to £38 for 160 power-weight units. The ordinary fees for motor cycles are:solo, up to 1 cwt., £1, over 1 cwt., £1 10s.; with side-car attached, £2. Fees for trailers vary according to the weight of the vehicle and range from £1 10s. for 1 ton or less to £3 for 2 tons or more. An extra 50 per cent. is charged for trailers with solid rubber tyres and 100 per cent. for those with metal tyres. Fees for drivers' and riders' licences are: -for any motor vehicle, 10s.: for motor cycle only, 5s.
- (vi) Western Australia. The Traffic Act 1919-1951 provides for the registration of motor vehicles by (i) the Commissioner of Police for the Metropolitan Traffic District and (ii) individual Local Government Authorities (Municipalities and Road Boards) throughout the remainder of the State. Ministerial supervision is exercised by the Minister for Local Government.

Annual registration fees are calculated on a power-weight basis for passenger vehicles (cars, buses, etc.), and for vehicles designed for the carriage of goods, according to the power-load-weight of the vehicle. Fees in the power-weights scale range from £2 10s. not exceeding 20 power-weight units, to £13 for 70 units with each additional unit at 7s. 6d. The power-load-weight scale commences at £3 10s. not exceeding 25 units, and rises to £22 for 150 units; additional thereafter and not exceeding 200, 7s. 6d. per unit; up to 300, 10s. per unit; and every additional unit, 12s. 6d. The power-weight or power-load-weight of vehicles is the sum of the weight in cwt. of the vehicle ready for use plus rated horse-power (power-weight), plus declared maximum load in cwt. (power-load-weight). Where a fraction is contained in the result the next higher integral figure shall apply. In Western Australia the Dendy Marshall formula* for calculating horse-power is prescribed.

^{*} Where cylinder and stroke measurements are expressed in inches:—

Horse-power = (Diameter of cylinder)* x number of cylinders x stroke

and where measurements are expressed in millimetres:—

Horse-power = (Diameter of cylinder)* x number of cylinders x stroke

The annual fee payable for the registration of a solo motor cycle is £1 and for combination outfits 10s. per wheel irrespective of the power-weight.

Vehicles used in the carriage of either passengers or goods for hire or reward are further subject to the additional licence fee of 10s. per wheel. Where dual wheels are fitted, the fee payable is, in effect, £1 per axle.

The issue of drivers', riders' and conductors' licences, at an annual fee of 5s., is the sole prerogative of the Commissioner of Police.

The maximum period of a licence is twelve months, although short-term renewals may be effected at quarterly intervals. Date-to-date licensing periods operate in the metropolitan traffic area only. The licensing year in other areas ends on 30th June.

(vii) Tasmania. By the Transport Act 1938 the Transport Commission assumed control of the registration and taxation of motor vehicles, the licensing of drivers and the regulation of commercial transport. Annual registration fees are as follows:—Motor vehicle, £1 10s.; motor cycle or trailer, £1. Charges for transfer of registration and duplicate certificates are 5s. and 1s. respectively. A heence to drive or ride any motor vehicle costs 10s. per annum.

Motor tax is calculated on a power-weight basis—i.e., unladen weight units and horse-power. Separate rates are provided for lorries, for trailers and for other motor vehicles. For lorries and trailers, every ½ cwt., and for other motor vehicles every cwt., constitutes a weight unit. The rate of tax for lorries is 2s. per unit and for motor vehicles other than lorries and trailers, 3s. 3d. per unit. In the case of a trailer, if the number of weight units does not exceed ten, no tax is payable, but for every unit exceeding ten the rate is 2s. The rate on motor vehicles propelled otherwise than by any volatile spirit by means of an internal combustion engine (steam, electric, diesel, or petrolelectric engines) is 4s. 9d. per weight unit.

(viii) Australian Capital Territory. The registration of motor vehicles and the licensing of drivers and riders in the Australian Capital Territory is controlled by the Services Branch of the Department of the Interior under the provisions of the Motor Traffic Ordinance 1936–1951 and the Traffic Ordinance 1937.

The rates charged for the annual registration of motor vehicles, except motor cycles, are calculated at 2s. 3d. per ½ cwt. of the tare weight of the vehicle for British vehicles and 2s. 9d. per ½ cwt. for foreign vehicles. Motor cycle rates are:—British, £1 1s. solo, £1 18s. with side-car attached; foreign, £1 2s.6d. solo, £2 with side-car attached. The registration fee for a motor omnibus is 8s. 6d. per cwt. Increased registration fees are not charged for diesel-powered motor vehicles.

The annual fee for a licence to drive a car, lorry or motor cycle is 10s. and for a motor omnibus, hire car or licensed goods vehicle the fee is 12s. 6d. There are no road taxes imposed for the carriage of goods.

- (ix) Northern Territory. In the Northern Territory the Registrar of Motor Vehicles controls the licensing of drivers and the registration of motor vehicles. Annual licence fees are:—motor cycles, 5s.; motor vehicles for hire, £1; any other motor vehicle, 1os. Under the Motor Vehicles Ordinance 1930-1940 the following registration fees are payable:—motor cycle (with or without side-car), £1; motor car for private use (including utility truck), £2; motor car for hire, £10; lorry, £3; tractor, £3; trailer (four-wheeled), £3; and trader's plate, £1.
- 3. Taxi-cabs and 0ther Hire Vehicles.—In all the capital cities of the States and in many of the provincial centres taxi-cabs and other vehicles ply for hire under licence granted by either the Commissioner of Police or the local government authority concerned. As most of these vehicles are independently controlled by individuals or small companies, it has not been possible to obtain complete data in respect of their operations.
- 4. Motor Omnibuses.—In both urban and provincial centres motor omnibus traffic has assumed considerable proportions during recent years and in some States the railway and tramway systems run motor services complementary to their main services. There has been a considerable replacement also, during the last few years, of existing tramway services by trolley-bus and motor-bus services. (See Divisions C. and D. of this Chapter.)

5. Motor Vehicles on the Register, etc.--(i) States and Territories, 1950-51. Particulars of the registration of motor vehicles, licences issued and revenue received for 1950-51 are contained in the following table. A graph showing for all motor vehicles other than motor cycles the registrations in force at 30th June of each year from 1920 to 1952 may be found on p. 126.

MOTOR VEHICLES: REGISTRATIONS AND REVENUE, 1950-54.

| | | (I | Excludi | ng Defer | ice Ser | vice Veh | icles.) | | | |
|------------------------|-------------------|------------------------------------|----------------------|------------|---|--|---|---|----------|--------------------|
| | Number | | r Vehicl June, 19 | es Registe | ered at | Number of Drivers' | Gross | Revenue | derived | from |
| State or Territory. | Motor Cars.(b) | Com- mercial Vehicles (c) | Motor Cycles. | Total. | Per 1,000 of Popu- lation at 30th June, 1951. | and Riders' Licences in force at 30th June. | Vehicle Regis- trations and Motor Tax. | Drivers' and Riders', etc Licences. | | Total. |
| | | | | | | | £ | £ | £ | £ |
| N.S. Wales | 312,453 | 185,041 | 46,851 | | | | 4,617,402 | | | 6,396,472 |
| Victoria | | d 147,049 | | | | 575,723 | 3,299,848 | 212,514 | 400,524 | 3,912,886 |
| Q'land S. Australia | | 103,341 | 22,011 | | 199 | 252,306 | 1,947,078 | 95,433 | 508,687 | 2,611,198 |
| W. Aust | 102,461 56,235 | | | | | 134,864 | 1,262,188 829,680 | | | 1,481,318 |
| Tasmania | 28,833 | 15,068 | 14, 53 5, | | | 53,936 | | | 82.772 | 974,158 452,806 |
| Nor. Terr | 1,155 | | 552 | | | | | | | 9,836 |
| A.C.T | 3,327 | | | | | 7,837 | | | | |
| | | | | | | | | | <u> </u> | |
| Australia | 883,610 | e551,057 | 145,684 | 1,380,351 | 18.7 | 1,985,821 | 12333075 | 1,101,461 | 2434624 | 15869160 |

⁽a) Excludes Trailers (79,012), Road Tractors, etc. (11,543), and Dealers' plates (6,280). (b) Includes Taxis and Hire Cars. (c) Includes Lorries, Vans. Buses and Utility Trucks. (d) Includes vehicles registered as primary producers' vehicles (69,552). (e) Includes primary producers' vehicles. Victoria.

(ii) Australia, 1938-39 and 1946-47 to 1950-51. The following table shows the number of vehicles registered, licences issued, and revenue received therefrom during each of the years 1946-47 to 1950-51 in comparison with 1938-39:—

MOTOR VEHICLES: REGISTRATIONS AND REVENUE, AUSTRALIA.

| | | | (Excl | uding D | efence S | Service V | ehicles.) | | | | |
|---|--|--|-------------------------------|--|--|--|--|--|--|---|--|
| | Number of Motor Vehicles Registered at 30th June. | | | | | Number of | Gross Revenue derived from- | | | | |
| Year. | Motor Cars. | Com- mercial Vehicles. | Motor Cycles. | Total. | Per 1,000 of Popu- lation at 30th June. | Drivers' and Riders' Licences in force at 30th June. | Vehicle Registra- tions and Motor Tax. | 'Drivers' and Riders', etc., Licences. | Other Sources. | Total. | |
| | | • | | | | : | £ | £ | £ | £ | |
| 1938-39 1946-47 1947-48 1948-49 1949-50 | 562,271 550,400 593,077 655,497 768,558 883,610 | 258,025 375,646 414,072 452,147 501,721 551,057 | 100,196 117,133 133,979 | 899,533 1,012,758 1,107,345 1,224,777 1,404,258 1,580,351 | 134 144 155 172 | 1,499,765 1,601,394 1,700,008 1,845,265 | 7,437,294 8,276,780 | 633,993 650,294 713,509 862,509 | 476,001 955,798 1,442,796 1,811,989 | 7,084,474 7,672,226 9,043,386 10433085 12270532 15869160 | |

⁽a) Includes primary producers' vehicles, Victoria.

(iii) Relation to Population. The table hereunder shows the number of vehicles (excluding motor cycles) registered per 1,000 of population in each State and Territory at 31st December. 1921, and at 30th June for each of the years 1939 and 1947 to 1951.

MOTOR VEHICLES (EXCLUDING MOTOR CYCLES) REGISTERED PER 1,000 OF POPULATION.

(Excluding Defence Service Vehicles.)

| Da | ite. | _ | n.s.w. | Vic. | Q'land. | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|------------|------|-------|--------|------|---------|------|------|------|------|--------|-------|
| 31st Dec., | 1921 | | 15 | 16 | 8 | 24 | 12 | 13 | (a) | | 15 |
| 30th June, | 1939 | | 107 | 125 | 118 | 137 | 133 | 96 | 218 | 174 | 118 |
| •• | 1947 | | 106 | 131 | 133 | 152 | 129 | 107 | 259 | 148 | 122 |
| ,, | 1948 | | 114 | 140 | 140 | 162 | 137 | 115 | 249 | 141 | 131 |
| ** | 1949 | | 122 | 149 | 149 | 174 | 148 | 127 | 223 | 149 | 140 |
| ,, | 1950 | • • | 135 | 168 | 164 | 191 | 164 | 135 | 223 | 173 | 155 |
| ,, | 1951 | • • • | 150 | 181 | 181 | 209 | 179 | 151 | 234 | 199 | 170 |

⁽a) Not available.

6. New Vehicles Registered.—(i) States and Territories, 1950-51. The following table shows the number of new vehicles registered in each State and the Australian Capital Territory during 1950-51. A graph showing the number of new motor vehicles (excluding motor cycles) registered during each of the years 1929 to 1952 will be found on p. 126.

NEW MOTOR VEHICLES REGISTERED, 1950-51.

(Excludes Defence Service Vehicles.)

| Vehicles. | n.s.w. | Vic. | Q'land. | S.A. | W.A. | Tas. | A.C.T. | Total. |
|---|-------------------------------------|---|---------|------------------------------------|-------------------------|--------------------------------|----------------------------|--|
| Motor cars Commercial vehicles, etc Motor cycles Total | 46,984 29,226 8,855 85,065 | 36,692 (b) 19,432 5,442 61,566 | 4,025 | 13,089 7,405 4,928 25,422 | 8,214 6,724 2,802 | 4,187 2,319 960 7,466 | 607 294 139 1,040 | 127,671 77,933 27,151 232,755 |

⁽a) Excludes Northern Territory.

(ii) Australia, 1938-39 and 1946-47 to 1950-51. Particulars of the number of new vehicles registered in Australia during the years 1938-39 and 1946-47 to 1950-51 are shown in the following table:—

NEW MOTOR VEHICLES REGISTERED: AUSTRALIA.(a) (Excluding Defence Service Vehicles.)

| Vehicles. | 1938-39. | 1946-47. | 1947-48. | 1948-49. | 1949–50. | 1950-51. |
|--|----------|----------|----------|----------|----------|----------|
| Motor cars Commercial vehicles, etc.(b) Motor cycles Total | 54,107 | 21,237 | 42,745 | 66,471 | 115,012 | 127,671 |
| | 24,927 | 16,317 | 28,769 | 36,678 | 57,946 | 77,933 |
| | 7,370 | 8,220 | 14,308 | 22,226 | 26,782 | 27,151 |
| | 86,404 | 45,774 | 85,822 | 125,375 | 199,740 | 232,755 |

⁽a) Excludes Northern Territory. Victoria.

7. World Motor Vehicle Statistics, 1951.—Particulars of motor vehicle registrations throughout the world were included in issues of the Official Year Book prior to No. 39. This information was derived from the results of the World Motor Census, conducted by the American Automobile magazine. Detailed information is not repeated in this issue, but the following particulars from the same source show that there were 73,148,436 motor cars, trucks and buses registered in various countries of the world at 1st January, 1952. This was an increase of 6.5 per cent. on the figure for the previous year, 68,695,200,

⁽b) Includes vehicles registered as primary producers' vehicles.

⁽b) Includes vehicles registered as primary producers' vehicles,

and was the highest figure attained to that date. Of these vehicles, 51,425,647 or 70.3 per cent. of the world total were in the United States of America, and Australian registrations amounted to 2.0 per cent.

8. Survey of Motor Vehicles, 1947-48.—A survey of motor vehicles on the roads (excluding motor cycles) during 1947-48 was carried out by the Commonwealth Statistician in collaboration with the Government Statisticians and Road Transport authorities in the States. Results were published in a series of bulletins dealing with each State separately and with the Commonwealth as a whole, and summarized particulars were included in Transport and Communication Bulletin No. 40—1948-49 published by this Burcau. Similar surveys, but of modified scope, have been carried out for later periods in respect of new vehicles only. The results have been published by this Bureau in the Transport and Communication Bulletin and, since July, 1951, in the Monthly Bulletin of Registrations of New Motor Vehicles. Information contained in the latter includes the make, type and horse-power of new motor vehicles registered in each State and the Australian Capital Territory.

G. TRAFFIC ACCIDENTS.

1. General.—Prior to the year 1949-50 it was not possible to make proper comparisons between States of the number of accidents recorded, because of the differences in legislation regarding the reporting of accidents and the degree to which the legislation could be enforced. However, arrangements were made, in co-operation with the Australian Road Safety Council and the various police and transport authorities concerned, to obtain the numbers of road traffic accidents on a comparable basis from all States in respect of the year ended 30th June, 1950 and subsequent years. This has been achieved by restricting the statistics so as to relate only to those accidents which result in death or bodily injury to any person, or in damage in excess of £10 to property. It should be noted, however, that the comparability of the statistics between States even on this basis still depends on the degree to which accidents so defined are in fact recorded by the police. Except in the case of Western Australia, where statistics shown relate to all accidents which occurred in the metropolitan area and to those which involved fatal or "near-fatal" injury only in the remainder of the State, it is considered that there is little difference in the recording of accidents as between States.

For further particulars of traffic accidents see Transport and Communication Bulletins issued by this Bureau.

2. Total Accidents Reported, 1950-51.—(i) Summary. The following table shows, for each State and the Australian Capital Territory during the year 1950-51, the total accidents reported to the police, the number of accidents involving casualties, and the number of persons killed or injured—totals and per 100,000 of mean population and per 10,000 motor vehicles registered.

ACCIDENTS (KNOWN TO THE POLICE) WHICH OCCURRED IN PUBLIC THOROUGH-FARES: ACCIDENTS RECORDED AND CASUALTIES, 1950-51.

| | | | Pe | rsons Kille | d. | Persons Injured.(b) | | | | | | | |
|-----------------------------|--|--|---------|---|--|---------------------|---|--|--|--|--|--|--|
| State or Territory. | Total Accidents Reported. (a) | Accidents Involving Casual- ties. | Number. | Per 100,000 of Mean Popu- lation. | Per 10,000 Motor Vehicles Regis- tered. | Number. | Per 100,000 of Mean Popu- lation. | Per 10,000 Motor Vehicles Regis- tered. | | | | | |
| N.S. Wales | 19,878 | 9,694 | 699 | 21 | 13 | 11,817 | · 361 | 217 | | | | | |
| Victoria | 14,861 | 9,274 | 581 | 26 | 13 | 11,364 | 508 | 256 | | | | | |
| Queensland | 9,599 | 4,557 | 218 | 18 | 9 | 5,512 | 462 | 229 | | | | | |
| South Australia | 6,325 | 2,001 | 197 | 28 | 11 | 2,332 | 327 | 135 | | | | | |
| \mathbf{W} . Australia(c) | 3,580 | 2,084 | 167 | 29 | 14 | 2,686 | 470 | 226 | | | | | |
| Tasmania | 2,724 | 1,013 | 57 | 20 | 12 | 1,212 | 421 | 246 | | | | | |
| Aust. Cap. Ter. | 294 | 137 | 7 | 32 | 13 | 172 | 782 | 313 | | | | | |
| Total, 1950-51 | | (d) 28,760 | 1,926 | 23 | 12 | (4) 35,095 | 423 | 223 | | | | | |
| Total, 1949-50 | 46,959 | (d) 25.965 | 1,643 | 20 | 12 | (e) 31.447 | 391 | 224 | | | | | |

⁽a) Total accidents causing death or injury to persons or damage exceeding £10 to property.

(b) Persons injured to an extent requiring surgical or medical treatment. (c) Includes for the Metropolitan Area all accidents causing death or injury to persons or damage exceeding £10 to property, and, for the remainder of the State, only those accidents causing fatal or "near-fatal" injuries.

(d) Accidents involving persons killed, and persons injured to an extent requiring surgical or medical treatment, except in Western Australia where only persons injured and detained in hospital are included.

(e) As defined in note (d).

(ii) Riders, Drivers, Pedestrians, etc., Killed or Injured. The following table shows the number of persons killed and the number injured during 1950-51 in each State and the Australian Capital Territory, classified into riders, drivers, pedestrians, etc.

ACCIDENTS (KNOWN TO THE POLICE) WHICH OCCURRED IN PUBLIC THOROUGH-FARES: RIDERS, DRIVERS, PEDESTRIANS, ETC., KILLED OR INJURED, 1950-51.

| Riders, Drivers, Pedestrians, etc. | N.S.W. | Vic. | Q'land. | S. Aust. | W. Aust. | Tas. | A.C.T. | Total. |
|---|---|---|---|--------------------------------------|---|---|----------------------------|---|
| | | PERS | ons Ki | LLED. | | | | |
| Drivers of Motor Vehicles Motor Cyclists Pedal Cyclists Passengers (all types) (a) Pedestrians Other Classes (b) Not Stated Total | 115 121 33 208 215 7 | 104 107 48 137 181 4 | 32 54 17 61 51 3 | 28 58 20 54 36 1 | 30 37 9 48 42 1 | 8 21 3 9 16 | 1 4 1 | 318 402 131, 518 541 16 |
| | | PERSO | ns Inju | RED.(c) | | | | |
| Drivers of Motor Vehicles Motor Cyclists Pedul Cyclists Passengers (all types)(a) Pedestrians Other Classes (b) Not Stated Total | 1,955 2,167 983 3,925 2,720 67 | 1,987 1,616 1,415 3,813 2.447 86 | 816 1,271 772 1,674 941 38 | 300 699 256 741 328 8 | (d) 392 594 322 961 390 26 1 | 184 293 163 359 204 7 2 | 23 43 25 63 18 | 5,657 6,683 3,936 11,536 7,048 232 |

⁽a) Includes pillion riders.

(b) Includes tram drivers, riders of horses and drivers of animal-drawn vehicles.

(c) Persons injured to an extent requiring surgical or medical treatment.

(d) Includes all persons injured (i.e., requiring surgical or medical treatment) in the Metropolitan area but only those suffering "near-fatal" injuries in the remainder of the State.

(iii) Ages of Persons Killed or Injured. The following table shows the age groups of persons killed or injured in traffic accidents in each State and the Australian Capital Territory during 1950-51:—

ACCIDENTS (KNOWN TO THE POLICE) WHICH OCCURRED IN PUBLIC THOROUGH-FARES: AGES OF PERSONS KILLED OR INJURED, 1950-51.

| Age Group (Years). | N.S.W. | Vic. | Q'land. | S. Aust. | W. Aust. | Tas. | A.C.T. | Total. |
|-----------------------|------------|--------|----------|----------|----------|-------|--------|--------|
| | | PERS | ons Ku | LED. | · | | | |
| Under 5 | 1 21 | 27 | 7 | 7 | 3 [| - 4 | | 69 |
| 5 and under 7 | 10 | 6 | 3 | 2 | 2 | | | 23 |
| 7 ,, ,, 17 | 36 | 32 | 12 | . 8 | 7 | 2 | | 97 |
| 17 ,. ,, 30 | 244 | 199 | 85 | 76 | 58 | 2.7 | 6 | 695 |
| 30 ,, ,, 40 | 90 | 56 | 36 | 24 | 27 | 10 | | 243 |
| 10, ,, ,, 50 | 1 Šı | 69 | 20 | 26. | 19. | 3 | 1 | 210 |
| 50 ,, 60 | 55-1 | 56 | 19 | 1,5 | 17 | * 3 | | 165 |
| 60 and over | 145 | 136 | 36 | 33 | 34 | ž | | 391 |
| Not Stated | 17 | | | . 6 | 1 | I. | | 24 |
| Total | 699 | 581 | 218 | 197 | 167 | 57 | 7 | |
| | | Person | ns Injui | RED.(a) | | | | |
| | 7 | | | | (b) | | | |
| Under 5 | 380 | 394 | 163 | 60 | 70 | 39 | 7 | 1,113 |
| 5 and under 7 | 245 | 270 | 125 | 39 | 38 | 27 | 8 | 752 |
| 7 ,, ,, 17 | 1,210 | 1,202 | 651 | 222 | | 120 | 11 | 3,719 |
| 17 ,, ,, 30 | 4,554 | 4,222 | 2,369 | 1,075 | 1,181 | 492 | 84 | 13,977 |
| 30 ,, ,, 40 | 1,750 | 1,845 | 732 | 365 | | 146 | 25 | 5,188 |
| 10 ,, ,, 50 | 1,174 | 1.305 | 517 | 186 | 281 | 84 | 15 | 3,562 |
| 50 ., ,. 60 | 889 ; | 1,089. | 406 | 178 | 174 | 64 | 10 | 2,810 |
| so and over | 1,065 | 1,035 | 466 | 194 | | 66 | 6 | 3,034 |
| Not Stated | 550 | 2 | 83 | 13 | 112 | 174 | 6 | 940 |
| Total | 11.817 | 11,364 | 5,512 | 2,332 | 2,686 | 1,212 | 172 | 35,095 |

⁽a) Persons injured to an extent requiring surgical or medical treatment. (b) Includes all persons injured (i.e., requiring surgical or medical treatment) in the Metropolitan area but only those suffering "near-fatal" injuries in the remainder of the State.

⁽iv) Accidents Recorded and Casualties, classified according to Type of Vehicle, Road User, etc., Involved. The following table shows, for Australia during 1950-51, the number of accidents in which each of several classes of vehicles, road users, etc., were involved. The accidents involving casualties and persons killed and injured are similarly classified.

ACCIDENTS (KNOWN TO THE POLICE) WHICH OCCURRED IN PUBLIC THOROUGH-FARES: ACCIDENTS RECORDED AND CASUALTIES, CLASSIFIED ACCORDING TO TYPE OF VEHICLE, ROAD USER, ETC., INVOLVED, AUSTRALIA, 1950-51.(a)

| Particulars. | Motor Vehicle. | Motor Cycle: | Pedal Cycle. | Tram. | Animal and Animal- drawn Vehicle. | Pedes- trian. | Other Vehicle. |
|---|-------------------|-----------------|-----------------|-------|---|------------------|-------------------|
| Total Accidents Reported(b) Accidents Involving | 50,808 | 10,24,3 | 4,471 | 1,968 | 1,725 | 7,172 | 360 |
| Casualties | 22,861 | 8,378 | 4,278 | 1,023 | 642 | 7,155 | 217 |
| Persons Killed | 1,556 | 534 | 146 | 74 | 34 | 535 | 68 |
| Persons Injured(c) | 28,377 | 9,640 | 4,476 | 1,178 | 733 | 7,168 | 271 |

⁽a) It should be noted that, as accidents and casualties classified according to one type of road user, etc., may also be classified according to another, these totals cannot be added across to obtain grand totals. The table excludes 46 accidents reported for which no cause was stated, of which, 40 involved casualties—6 persons killed and 34 persons injured.

(b) Total accidents causing death or injury to persons or damage exceeding from the property.

(c) Persons injured to an extent requiring surgical or medical treatment.

It will be seen, therefore, that motor vehicles were involved in 50,808 accidents, of which 22,861 involved casualties (1,556 persons killed and 28,377 persons injured). The 50,808 accidents in which motor vehicles were involved comprised 21,040 collisions with other motor vehicles, 5,725 with motor cycles, 3,059 with pedal cycles, 1,141 with trams, 1,223 with animals and animal-drawn vehicles, 5,709 with pedestrians, 5,653 with fixed objects, 293 with vehicles other than those mentioned, 6,303 instances of overturning or leaving the roadway, and 662 accidents to passengers only. The particulars of accidents in which motor cycles, pedal cycles, etc., were involved with motor vehicles are also included; under their respective headings in the table above. Consequently, since the figures in each column refer to the total accidents in which the particular type of vehicle, etc., was involved, any aggregation across would result, through duplication, in considerable overstatement of the actual totals.

3. Persons Killed or Injured in Traffic Accidents, 1938-39 and 1946-47 to 1950-51.— The following table shows the numbers of persons killed or injured in traffic accidents in each State and the Australian Capital Territory during the years 1938-39 and 1946-47 to 1950-51:—

ACCIDENTS (KNOWN TO THE POLICE) WHICH OCCURRED IN PUBLIC THOROUGH-FARES: PERSONS KILLED OR INJURED.

| Year | , | N.S.W. | Vic. | Q'land. | S. Aust. | W. Aust. | Tas. | A.C.T. | Total. | Per 10,000 Motor Vehicles Regis- tered. |
|--|---|---|--|--|--|---|---|----------------------------|---|--|
| | | | | PERS | sons Ki | LLED. | | | | |
| 1988-39, 1946-47 1947-48 1948-49 1949-50 1950-51 | | 552 508 508 508 564 561 699 | 418 386 362 426 501 581 | 173 188 182 169 202 218 | 118 101 128 119 170 | 126: 101 127: 90 142: 167: | 43 61 40 53) 64 57 | 3, 1, 3, 3, 7, | 1,433 1,346 1,348 1,424 1,643 1,926 | 16 13 12 12 12 |
| | | | | Pers | ons Inj | URED. | | | | |
| 1938-39: 1946-47 1947-48 1948-49 1949-50 1950-51: | | (a) 8,388 8,752 8,557 9,253 10,405 11,817 | (a) 7,428 7,810 7,210 8,225 10,538 11,3641 | | (b) 3,536 2,708 2,927 (a)2,025 (a)2,514 (a)2,332 | (c) 937 780 668 747 (a)1,929 (a)2,686 | (a) 1,300 805 838 952 1,154 1,212 | (a) 38 45 68 91 136 | 25,653 24,759 24,062. 25,310 31,447 35,095 | 285 245 218 207 224 223 |

⁽a) Persons injured to an extent requiring surgical or medical treatment. (b) Figures shown for years prior to 1948-49 include all persons injured whether surgical or medical treatment was required or not. (c) Figures shown for years prior to 1949-50 include persons injured and detailed in hospital only. Includes all persons injured, (i.e., requiring surgical or medical treatment), in the metropolitan area but only those suffering "near-fatal" injuries in the remainder of the State.

H. AVIATION.

- 1. Historical.—A short review of the progress of civil aviation in Australia up to the date of foundation of a Civil Aviation Administration appears in Official Year Book No. 16, pp. 334-5.
- 2. Foundation and Administration of Civil Aviation.—A brief account of the foundation and objects of this Administration will be found in Official Year Book No. 19, p. 299. Official Year Book No. 38 and earlier issues contain information on the control of civil aviation by the Board (1936) and later (1939) by the Department of that name. The Acts defining the broad principles of operation of the administration of civil aviation and the Regulations amplifying them, and the principal functions of the administration are also described.

A recent change in the administration of the Department is its regional organization based on State boundaries, except that one region embraces Victoria and Tasmania.

The work of the Department is divided into two main sections. Administrative and Technical. The three Administrative Divisions are:—(i) the Division of Air Transport and External Relations; (ii) the Division of Administration and Personnel; and (iii) the Division of Finance and Stores. The three Technical Divisions are:—(i) the Division of Air Navigation; (ii) the Division of Airways; and (iii) the Division of Airports.

The Accident Investigation Branch is an independent section of Head Office, concerned mainly with major accidents, and directly responsible to the Director-General.

Full details of the functions of the three Administrative Divisions and the three Technical Divisions may be found in Official Year Book No. 38.

3. International Activity.—(i) International Organizations. A full report of the formation of the International Civil Aviation Organization, the Commonwealth Air Transport Council and the South Pacific Air Transport Council appears in Official Year Book No. 37 and particulars of subsequent activity in the international field were Further ratifications of the Chicago Convention raised the included in issue No. 38. membership of the International Civil Aviation Organization to 57 States as at 30th June, 1951. In accordance with the ICAO policy of broadening Council representation by enabling the views of non-Council member States to be presented, Australia and New Zealand agreed that the representative of Australia on the Council will keep the New Zealand authorities informed on all matters before the Council or Committees under its control which are of particular interest to New Zealand, and will also on request present any views which the New Zealand Government would wish to have submitted. An account of the establishment of the Air Navigation Commission will be found in Official Year Book No. 39, p. 183.

The Air Transport Committee has been established with a full membership of twelve members nominated by the Council from among its members.

Australia has been represented at various Annual Assemblies of, and meetings convened by, ICAO, and also at meetings of the South Pacific Air Transport Council. Further details will be found in Official Year Book No. 39 and earlier issues.

The 4th Session of the Communications Division, ICAO, was held in Montreal during April and May, 1951. A representative attended the conference to present the Australian viewpoint on matters relating to communications procedures, frequency planning and communications systems.

(ii) International Air Services. Events which have transpired in connexion with international air services since the developments referred to in Official Year Book No. 39 are outlined in the following paragraphs.

Changes have been made in the operation of the Qantas Empire Airways-British Overseas Airways Corporation freighter services. On 6th September, 1950, B.O.A.C. suspended its weekly Lancastrian freighter service which operated right through to Australia and introduced in its place a York service between London and Singapore. Q.E.A. has provided a connecting service between Singapore and Sydney with Lancastrian aircraft which were replaced in October, 1950, by DC.4's.

Changes have also occurred in the intermediate stops served by the Kangaroo services. Following arrangements made with the Indonesian authorities, Q.E.A. has included, since August, 1950, calls at Djakarta on both its Constellation service to the

United Kingdom and the Skymaster service to Singapore. Djakarta had been served by B.O.A.C. for some time before Q.E.A. introduced the stop. Both Q.E.A. and B.O.A.C. introduced Beirut in Lebanon as a stopping place at the end of January, 1952.

Q.E.A. increased the frequency of the fortnightly Sydney-Noumea-Suva service to once weekly in April, 1951, and the fortnightly Sydney-Noumea-Espiritu Santo and Vila service to once weekly in June, 1951, thus providing New Caledonia with a twice-weekly service.

Tasman Empire Airways Limited introduced a service between Sydney and Wellington with Solent aircraft on 3rd October, 1950. Another route across the Tasman was opened on 28th June, 1951, when Qantas Empire Airways, under charter to Tasman Empire Airways, commenced a weekly Melbourne-Christchurch service with DC.4 aircraft. With the opening of this service, Melbourne was used for the first time as an international airport. Altogether there are now ten frequencies a week being operated between Australia and New Zealand.

On 8th March, 1951 a twice-weekly Stratocruiser service was inaugurated between San Francisco and Sydney.

During June, 1949 Qantas Empire Airways Ltd. inaugurated a fortnightly Australia-Hong Kong service based on Sydney and operating via Darwin and Labuan (British North Borneo). With the agreement of the United Kingdom authorities and the authority of the Supreme Commander, Allied Powers, Japan, this service was extended in October, 1950, to Iwakuni (and later to Tokyo) and the frequency increased to once weekly.

4. Regular Air Services within Australia.—As a result of negotiations conducted between major airline operators unprofitable duplication of services on some routes has been largely eliminated without detriment to the convenience of air travellers generally.

During April, 1952, approval was given for an increase of between 10 and 20 per cent. in fares on the main trunk services.

5. Air Ambulance Services.—A brief statement of the foundation and objects of the Air Ambulance Services will be found in Official Year Book No. 32, pp. 145 and 146.

During the year 1950-51 the Air Ambulance and Flying Doctor Services continued to provide medical aid for the outback regions of Australia. The Commonwealth Department of Health operates the Northern Territory Aerial Medical Service with two DH84 aircraft based at Darwin, and the Bush Church Aid Society for Australia and Tasmania, supported by funds from the Church of England, maintains one DH84 aircraft based at Ceduna, and one DH83 at Wudinna, South Australia.

6. Training of Air Pilots.—A brief statement of the pre-war policy of the Commonwealth Government regarding assistance to Aero Clubs was given in Official Year Book No. 32, p. 146.

Payment to the Clubs, under a revised scheme for financial assistance from July. 1951 to June, 1952, has been made as follows:—(i) a maintenance grant (for each aircraft-hour flown) at the following rates per hour subject to certain limitations—(a) at home base. £1 13s. 9d., (b) away from home base, £2 7s. 6d.; (ii) an issue bonus (for each pupil trained ab initio to "A" licence standard)—(a) at home base, £84, (b) away from home base, £107 10s.; (iii) a renewal bonus (for each licence renewed on club aircraft)—(a) at home base, £11, (b) away from home base, £15. In addition, the Commonwealth has accepted a contingent liability to contribute at the rate of 10s. per flying hour towards each club's replacement reserve. This amount is intended to supplement the club's reserve for the purchase of aircraft and spares specifically approved by the Department of Civil Aviation.

During the year 1950-51, 225 issue bonuses and 579 renewal bonuses were earned. Hours flown by subsidized Aero Clubs totalled 39,770 and a total subsidy of £93,399 was earned by the nine clubs.

- 7. Gliding Clubs.—For the year 1950-51 a total subsidy of £1,499 was distributed among the controlling gliding authorities in each State. Distribution was on an active membership basis.
- 8. Airways Engineering.—During the year 1950-51 the Airways Communications System both within Australia and with oversea countries was improved and developed. This work includes the fixed, or point-to-point communication service, and the service between the ground and aircraft.

A start was made in 1949-50 with the V.H.F. communication service, installations being completed at Williamtown and Guildford, and on 17th May, 1951 the manual radio telegraph circuit between Melbourne and Honolulu was replaced by a radio teletype circuit between Sydney and Honolulu.

New 75-megacycle marker beccon equipment has been installed at points along airways. An approach control radar system, which operates on a frequency of 3,000 megacycles, has been installed at Essendon. The Department of Civil Aviation has undertaken installation of a chain of fifteen radar stations throughout Australia for radar tracking of balloons, wind finding purposes and for detecting radio-sonde balloon flights.

The lighting of airways and airports has been closely studied by the Departmental Lighting Committee, consisting of representatives of the Department of Civil Aviation and two members from the Airline Pilots' Association.

- o. Air Traffic Control.—The period 1950–52 has been characterized by procedural development and consolidation, and by general acceptance for the first time of the need for inter-departmental co-ordination in the use of air space. Civil aircraft movements have increased and military flying programmes have been greatly expanded. In consequence, the traffic patterns at major airports and along the lanes teading to them have reached a high degree of complexity. Efficient control has been maintained largely by continuous attention to, and modification of, procedures.
- 10. Meteorological Aids to Civil Aviation.—Professional meteorological officers of the Department of the Interior are on duty at many of Australia's aeradio stations. At the remainder, communications personnel make local weather observations and take barometer and thermometer readings for transmission to Area Meteorological Offices.
- 11. Construction and Development of Airports.—During 1950-52 the scarcity of suitable material, labour and plant slowed the rate of airport construction throughout Australia. Effort was concentrated mainly on the provision of buildings, housing and safety equipment, and facilities were provided where the need was greatest.

Kingsford-Smith Airport. Work progressed steadily on the construction of an international airport at Mascot. Cook's River was diverted to flow into Botany Bay west of the new airport, and the old river bed was filled to form the base of the first of the new runways. At the same time work was carried out on the diversion of sewer lines and a main highway (General Holmes Drive). The 64° runway was completed.

Essendon Airport. The section of taxiway "N" east of the 168° runway and portion of taxiway "M" were completed. Work continued on the erection of oil company depots on a new site in the building area and the erection of two large Igloo hangars was commenced.

Moorabbin Airport. Work continued on this secondary landing ground, which accommodates all non-radio equipment aircraft and so relieves the hazard created at Essendon.

Adelaide Airport. The 6,850 feet Class "C" runway was completed, including the concrete ends. The large drain constructed for the diversion of Keswick and Brownhill Creeks was completed downstream from Brownhill Creek, leaving only the lined section between Brownhill Creek and Keswick Creek to be constructed.

Work on other runways, taxiways, aprons and hangars proceeded favorably during 1952, some sections being completed. The complete changeover of operations from Parafield is dependent upon the construction of the combined terminal and operations building.

Hobart Airport. To replace the Cambridge Airport, which does not meet international standards and cannot be improved, plans have been developed for the construction of a Class "D" ICAO airport for Hobart at Llanherne, and during the period good progress was made in the construction of this new airport. When completed, it will provide one sealed runway 5,800 feet long and 200 feet wide, with good approaches and associated taxiways, aprons, buildings and roads. Work also continued on earth-works for associated runways.

- 12. Aircraft Parts and Materiel's.—The number of firms and organizations approved by the Department of Civil Aviation to trade in the aircraft industry now totals 349, and extensions of approval have been granted to 186 firms to cover the extensive increase in their operations.
- 13. Aircraft Maintenance Certificates of Repair.—Aircraft maintenance repair and overhaul is carried out under the supervision of a works inspection section or licensed ground engineer in workshops approved by the Department of Civil Aviation. Workshops are authorized to issue certificates of repair which serve as evidence to the licensed ground engineer responsible for the fitment of the part that the work so covered has been done in an authorized workshop by competent tradesmen and has been subjected to proper inspection. Such specialized work as the overhaul of instruments, electrical equipment, aeronautical pumps and carburettors is carried out by these approved workshops.
- 14. Test and Examination of Aircraft Parts and Materials.—A number of laboratories are approved by the Department of Civil Aviation and authorized to issue laboratory reports covering the physical test, chemical analysis, radiological and metallurgical examination of materials and parts used in connexion with the civil aircraft industry.
- 15. Statistical Summaries.—(i) Registrations, Licences, Accidents, etc. The following table provides a summary of the civil aviation registrations and licences in force in Australia at 30th June of each of the years 1939 and 1947 to 1951, and also of the numbers of persons killed and injured in civil flying accidents during the years 1938–39 and 1946–47 to 1950–52.

CIVIL AVIATION: REGISTRATIONS, LICENCES, ACCIDENTS, ETC., AUSTRALIA.

| 4.4 23 7 | |
|---|-------------|
| At 30th June | |
| Particulars. | |
| 1939. 1947. 1948. 1949. 1950. | 1951. |
| Registered Aircraft Owners. No. 149 323 334 335 359 | |
| | 351 |
| | 838 |
| Pilots' Licences— Private 1,096 (a) 600 614 756 872 | |
| | 1,065 |
| Commercial, 346 (a) 499 495 481 469 | 441 |
| Student ,, (a) 939 1,114 1,169 1,778 | 1,840 |
| ist Class Airline Transport , (a) 341 361 397 417 | 495 |
| 2nd ,, s, , (a) 25 35 27 30 1 | .35 |
| 3rd ,, (a) 372 360 363 326 | 37 7 |
| Navigators' Licences— | |
| Flight Navigator | 139 |
| Cadeb | (b) |
| Radio Operators' Licences— | |
| 1st Class Flight Radio Tele- | |
| graphy Operator (n) 80 106 143 103 | 96 |
| Flight Radio Telephony | |
| Operators— | |
| 1st Class ,, (a) 559 590 715 701 | 754 |
| 2nd ,, , (a) 192 211 230 211 | 237 |
| 3rd , , (a) 5 6 27 38 | 33 |
| Flight Engineers' Licences | 39 |
| Ground Engineers' Licences , 525 (a)1,660 1,660 (c) 1,684 | 1,643 |
| Aerodromes— | . ,, |
| Government, 71 (a) 131 133 142 183 | 184 |
| Public ,, 213 (a) 243 240 222 213 | 239 |
| Emergency Grounds ., 147 (a) 54 49 43 (d) | (d) |
| Flying Boat Bases | `-' 5 |
| Accidents (year ended 30th | , |
| June) | |
| Persons Killed | 13 |
| Indused ve ve ve | 36 |
| " injured " 15 17 22 1 | - 30 |

(a) At 1st April, 1948; new categories in accordance with standards of the International Civil Aviation Organization. (b) Category cancelled during 1950-51. (c) Not available. (d) Included with Public Aerodromes.

(ii) Operations of Regular Internal Services. The next table summarizes the flying activities of regular internal services operating within Australia during the years 1938-39 and 1946-47 to 1950-51.

CIVIL AVIATION: OPERATIONS OF REGULAR INTERNAL SERVICES, AUSTRALIA.

| | | | | • | Year ended | 30th June | _ | |
|--|-----------------|--------------------------------|-------------------------------------|--|---|---|---|---|
| P | articulars | | 1939. | 1947. | 1948. | 1949. | 1950. | 1951. |
| Hours flown Miles ,, Paying Passenge Paying Passenge Freight Actual tons Ton-miles | ers er-miles | No. '000 No. '000 No. '000 | 39,312 5,302 41,429 22,423 | 154,772 23,038 849,647 366,150 12,247 5,972 | 212,233 32,371 1,207,839 503,494 25,845 11,920 | 224,853 35,242 1,409,300 566,038 33,381 15,240 | 225,841 36,519 1,499,816 590,429 44,144 19,873 | 252,333 40,680 1,685,089 669,087 53,002 24,198 |
| Mail— Actual tons Ton-miles | | No. '000 | (b) 64 (a) available. | 1,120 621 | 1,248 674 Net weight | 1,580 789 | 2,594 1,250 | 2,887 1,333 |

Note.—Figures shown for 1939 relate to subsidized services only, and include Oversea Services of Qantas Empire Airways Ltd., but exclude operations of aircraft chartered for defence purposes.

(iii) Operations of Australian and International Oversea Services. The following table furnishes a summary of Australian and other oversea services operating between Australia and oversea countries, including Pacific islands, during the years 1938-39 and 1946-47 to 1950-51. Particulars are not available in respect of certain services and the figures shown are therefore incomplete.

CIVIL AVIATION: OPERATIONS OF OVERSEA SERVICES.(a)

| | | | 1 | Year ended 30th June— | | | | | | | | | | |
|---|------------|----|-----------------------------------|--|---|--|--|--|---|--|--|--|--|--|
| Р | articulars | • | | 1939. | 1947. | 1948. | 1949. | 1950. | 1951. | | | | | |
| Route-miles Hours flown Miles "Paying Passenge Paying Passenge | | | No. ,,, '000 No. '000 | 6,985 12,686 1,736 5,350 7,335 | 19,459 32,633 5,921 31,055 75,225 | 26,667 39,488 7,555 41,124 122,678 | 29,695 40,262 7,982 45,296 144,869 | 39,217 40,692 8,768 59,832 165,077 | 43,633 48,947 10,500 87,599 241,817 | | | | | |
| Freight— Actual tons Ton-miles Mail— Actual tons Ton-miles | | :: | No. '000 No. '000 | (b) (b) (b) | 349 978 465 2,112 | 660 2,630 638 3,408 | 765 2,808 577 3,331 | 1,121 4,001 651 3,453 | 1,976 6,214 842 4,792 | | | | | |
| | | | ! | | | | | | | | | | | |

(a) Incomplete.

(b) Not available.

- 16. Papua-New Guinea Activities.—(i) General. Issues of the Official Year Book up to and including No. 34, 1941 showed particulars of the development of civil aviation in New Guinea and of the companies operating at the outbreak of war with Japan, while issues Nos. 35 to 37 carried the accompanying statistical summary of operations up to the end of September, 1941. Similar statistics of post-war operations, however, are not at present available.
- (ii) Territory of Papua and New Guinea. At 30th June, 1952 there were 100 fully operational aerodromes in the Territory of Papua and New Guinea and a further 52 in the course of development. Of these, 32 were controlled by the Department of Civil Aviation, 56 by the Civil Administration and the remainder were privately owned by missions and commercial interests. In addition, there were 30 seadromes.

Aerial activity within the Territory is intensive, and several companies conduct regular services to the major aerodromes while charter flights can be arranged to almost any locality.

During 1951 Qantas Empire Airways reduced their DC3 services between Australia and New Guinea to two services per week and introduced an additional freighter service between Sydney and Lae. Q.E.A. also operated a DC3 service between Townsville and Momote for the R.A.A.F. on a weekly basis.

At the beginning of 1951 Mount Lamington erupted and, in the subsequent action, approximately 900 tons of stores and equipment were flown to the stricken area.

The accident rate increased as compared with the previous year. There were four fatal accidents, in which 12 people lost their lives.

I. POSTS, TELEGRAPHS, TELEPHONES AND WIRELESS.

NOTE.—In all the tables in this Division returns for the Australian Capital Territory are included with those for New South Wales, while the South Australian returns include particulars for the Northern Territory.

§ 1. General.

- 1. The Postmaster-General's Department.—Under the provisions of the Post and Telegraph Act 1901, the Department was placed under the control of the Postmaster-General, being a responsible Minister. The Director-General of Posts and Telegraphs controls the Department under the Postmaster-General, whilst the principal officer in each State is the Deputy-Director of Posts and Telegraphs.
- 2. Postal Facilities.—(i) Relation to Area and Population. The following statement shows the number of post offices, the area in square miles and the number of inhabitants to each post office (including non-official offices) and the number of inhabitants to each 100 square miles in each State and in Australia at 30th June, 1951. In order to judge clearly the relative postal facilities provided in each State, the area of country to each office as well as the number of inhabitants per office should be taken into account.

POSTAL FACILITIES: RELATION TO AREA AND POPULATION, AT 30th JUNE, 1951.

| Particulars. | N.S.W. | Vic. | Q'land. | S.A. | W.A. | Tas. | Aust. |
|---|--------|-----------|------------|--------------|--------------|-----------|--------------|
| Number of post offices (a) Number of square miles of territory | 2,560 | 2,430 | 1,293 | 876 | 635 | 521 | 8,315 |
| per office | 121 | 36 934 | 519 937 | 1,032 841 | 1,537 916 | 50 558 | 358 1,014 |
| square miles | 1,077 | 2,582 | 181 | 81 | 60 | 1,109 | 283 |

⁽a) Includes "official," "semi-official," and "non-official" offices.

The foregoing table does not include "telephone" offices at which there is no postal business.

(ii) Number of Offices. The following table shows the number of post offices (exclusive of telephone offices) in each State for the years 1921, 1931, 1941 and 1951.

NUMBER OF POST OFFICES AT 30th JUNE.

| | 19 | 21. | 19 | 31. | 19 | 41. | 19 | 51. |
|--|---------------------------------------|---|---------------------------------------|--|---------------------------------------|---|---------------------------------------|---|
| State. | Official and Semi- Official. | Non- Official. | Official and Semi- Official. | Non- Official. | Official and Semi- Official. | Non- Official. | Official and Semi- Official. | Non- Official. |
| New South Wales Victoria Queensland South Australia Western Australia Tasmania | 462 269 205 138 128 47 | 2,147 2,307 1,057 659 499 451 7,120 | 439 279 199 146 124 43 | 2,103 2,280 1,000 620 432 472 | 453 286 197 152 129 46 | 2,086 2,293 1,036 648 488 465 7,016 | 489 299 207 160 145 49 | 2,071 2,131 1,086 716 490 472 6,966 |

⁽iii) Employees and Mail Contractors. The number of employees and mail contractors in the Central Office and in each of the States in the years 1921, 1931, 1941 and 1951 is given in the following table:—

| | 19 | 1921. | | 3.т. | 19 | 41. | 19 | 51. |
|---|--|--|---|---------------------------|---|--|--|--|
| State. | Em- ployees. | Mail Con- tractors. | Em- ployees. | Mail Con- tractors. | Em- ployees. | Mail Con- tractors. | Em- ployees. | Mail Con- tractors. |
| | | | • | | | | | |
| Central Office New South Wales Victoria Queensland South Australia Western Australia Tasmania | 139 11,669 8,117 4,728 2,826 2,111 1,220 | 2,046 1,091 750 439 302 223 | 174 12,336 9,574 4,865 3,340 2,548 | 1,884 | 393 18,121 14,659 6,849 4,387 3,549 1,809 | 2,590 1,605 1,470 474 431 216 | 981 32,569 23,905 13,221 7,744 5,601 3,016 | 2,337 1,241 1,907 442 390 305 |
| | , 1,222 | ~-5 | -,554 | -27 | 1,009 | -10 | 3,010 | 343 |
| Australia | 30,810 | 4,851 | 34,191 | 4,860 | 49,767 | 6,786 | 87,037 | 6,622 |

NUMBER OF POSTAL EMPLOYEES AND MAIL CONTRACTORS AT 30th JUNE.

3. Gross Revenue, Branches—Postmaster-General's Department.—The gross revenue (actual collections) in respect of each branch of the Department during the year 1950-51 is shown in the table hereunder:—

POSTMASTER-GENERAL'S DEPARTMENT: GROSS REVENUE(a), 1950-51.

| Sources. | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tas. | Total, Aust. |
|----------------------------|--------|-----------|---------|----------|----------|-------|-----------------|
| Postage | 6,375 | 4,661 | 2,140 | 1,325 | 1,064 | 455 | 16,020 |
| Money Order Commission and | 1 | i | | i | 1 | | 1 |
| Poundage on Postal Notes | 189 | 152 | 56 | 36 | 26 | . 13 | 472 |
| Private Boxes and Bags | 52 | 31 | 27 | 17 | 11 | 6 | 144 |
| Miscellaneous | 386 | 306 | T45 | 79 | 93 | 22 | 1,031 |
| Total, Postal | 7,002 | 5,150 | 2,368 | 1,457 | 1,194 | 496 | 17,667 |
| Telegraphs | 1,770 | 1,206 | 673 | • 368 | 322 | 103 | 4,442 |
| Telephones | 9,064 | 6,642 | 3,122 | 2,008 | 1,240 | 592 | 22,668 |
| Grand Total | 17,836 | 12,998 | 6,163 | 3,833 | 2,756 | 1,191 | 44,777 |

⁽a) The figures in this table relate to revenue actually collected during the year as recorded for Treasury purposes.

The gross revenue (actual collections) from the various branches in each State for the years 1945–46 to 1949–50 are shown in comparison with the year 1938–39 in Official Year Book No. 39. For the years 1938–39, 1946–47, 1947–48, 1948–49 and 1949–50 the gross revenue for Australia was £17,350,000, £29,802,000, £31,390,000, £33,307,000 and £38,348,000 respectively.

Compared with the corresponding figures for the previous year an increase of 16.8 per cent. was shown in the gross revenue earned for the year 1950-51. Increases in the several branches were as follows:—Postal 14.5 per cent., Telephone 18.3 per cent., and Telegraph 18.3 per cent.

The gross revenue in 1950-51 was 158.1 per cent. higher than in the last complete pre-war year, 1938-39, the corresponding percentage increases for the several branches being as follows:—Pestal, 138.1, Telegraph 223.8, and Telephone 181.9.

4. Expenditure, Postmaster-General's Department.—(i) Distribution, 1950-51. The following table shows, as far as possible, the distribution of expenditure (actual payments) on various items in each State during the year ended 30th June, 1951, as shown by records

kept for Treasury purposes. The table must not be regarded as a statement of the working expenses of the Department, since items relating to new works, interest, etc., are included therein.

POSTMASTER-GENERAL'S DEPARTMENT: DISTRIBUTION OF EXPENDITURE. 1950-51.

(£'000.)

| Particulars. | Central Office. | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tas. | Aust. |
|--|--------------------|--------|-----------|---------|-------------|----------|------------|--------|
| Expenditure under Con- trol of Department— Salaries and payments in the nature of | | | | | | | | |
| salary | 255 | 9,187 | 6,480 | 3,770 | 2,239 | 1,459 ' | 827 | 24,217 |
| General expenses | 41 | 898 | 651 | 237 | 178 | 125 | 53 | 2,785 |
| Stores and material | 12 | 603 | 451 | 224 | 186 | 100 , | 62 | 1,647 |
| Mail services | '(a)2,303 | 946 | 551 | 558 | 263 | 176 | 80 | 4,877 |
| Engineering services (other than New | | | 1 | | | | i | |
| Works) | 444 | 6,787 | 4,143 | 2,394 | 1,323 | 973 | 544 | 16,608 |
| Other services | 119 | | 1 | ١ | 1 | 1 | | 119 |
| Total | 3.174 | 18,421 | 12,276 | 7,183 | 4,189 | 2,842 | 1.568 | 49,653 |
| Rent, repairs, maintenance, | | | 1 | | ļ | 1 | | |
| fittings, etc | | 302 | 161 | 83 | 52 | 42 | 17 | 667 |
| Other expenditure, n.e.i | | 11 | 8 | 2 | 1 | 11 | 1 | 34 |
| Capital Works and Services (b)— | 1 | İ | Ì | | | | | |
| Telegraph and Telephone | 3.4 | 8.160 | c16,747 | 2,957 | 1,674 | 1,036 | 522 | 31,139 |
| New Buildings, etc | | 1,172 | 1,069 | 331 | 580 | 220 | 9 6 | 3,477 |
| Other expenditure not | | 1 '-1- | 1 | | 1 | | - | 27111 |
| allocated to States | $(d)_{4.730}$ | | 1 | | | 1 | | 4,730 |
| | (e) 7,938 | 28,075 | 30,261 | 10,556 | 6,515 | 4,151 | 2,204 | 89,700 |

- (a) Expenditure on air-mail services, etc. (b) Includes expenditure from loan. (c) Includes £11,000,000 working advance for payment to credit of Post Office Stores and Transport Trust Account. (d) Particulars of apportionment to States not available. Includes superannuation contributions. £775,279; sinking fund payments, £2,150,213; interest on loans, £757,753; exchange, £696,005; Subscriptions to Share Capital—Amalgamated Wireless (Australasia) Ltd., £157,981; Public Works Staff, Salaries and General Expenses, £189,605; and Transferred Officers Pensions and Allowances, £3,262. (c) Includes expenditure not apportioned to States.
- (ii) Totals 1938-39 and 1946-47 to 1950-51. Actual payments made for each of the years 1938-39 and 1946-47 to 1950-51, respectively, were:—£18,874,000, £32,724,000, £40,391,000, £53,544,000, £64,304,000 and £89,700,000. Total expenditure increased by 39.5 per cent. during 1950-51.
- 5. Profit or Loss, Postmaster-General's Department.—(i) States, 1950-51. The foregoing statements of gross revenue and expenditure represent actual collections and payments made and cannot be taken to represent the actual results of the working of the Department for the year. The net results for each branch in the several States, after providing for working expenses (including superannuation, pensions and depreciation) and interest charges including exchange, were as follows:—

POSTMASTER-GENERAL'S DEPARTMENT: PROFIT OR LOSS, 1950-51. (£'000.)

| Branch. | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tas. | Aust. |
|----------------------------------|------------------------------------|-----------|---------|----------|------------------------|------|--------------|
| Postal Telegraph Telephone | — 54 [†] — 389 — 78 | - 201 | - 325 | 150 | - 133 - 30 - 103 | - 23 | - 818 |
| All Branches | -1,008 | | | · | - 266 | | the same and |

NOTE.—Minus sign (-) indicates loss.

(ii) Branches, 1938-39 and 1946-47 to 1950-51. The following statement shows particulars of the operating results of each branch for the years 1938-39 and 1946-47 to 1950-51.

| POSTMASTER-GENERAL'S | DEPARTMENT: | PROFIT | OR | LOSS, | BRANCHES. |
|----------------------|--------------------|--------|----|-------|-----------|
| | (£'000.) | | | | |

| | Year. | | Postal. | Telegraph. | Wireless. | Telephone. | All Branches. |
|---------|-------|-----|---------|-----------------|-----------|------------|---------------|
| 1938-39 | | | 2,105 | 52 | 76 | 1,392 | 3,625 |
| 1946–47 | | | 2,841 | 148 | - 419 | 2,534 | 5,104 |
| 1947-48 | | | 1,623 | - 326 | - 697 | 1,250 | 1,850 |
| 1948–49 | | | - 297 | – ,1,080 | (a) | - 346 | - 1,723 |
| 1949-50 | | | - 1,154 | — 722 | (a) | 721 | - 1,155 |
| 1950-51 | | • • | - 1,813 | 818 — | (a) | _ 26 | - 2,657 |

⁽a) Prior to 15th March, 1949, the operations of the Australian Broadcasting Commission were financed by apportionment of the fees collected from the issue of broadcast listeners' licences, part being paid to the Commission, the remainder being retained by the Postmaster-General's Department for technical services provided, and particulars thereof were included in the Department's accounts. Since that date the Commission's operations have been financed through Consolidated Revenue Fund.

NOTE.—Minus sign (-) indicates loss.

6. Fixed Assets.—(i) Details, 1950-51. The following statement shows particulars of the fixed assets of the Postmaster-General's Department from 1st July, 1950 to 30th June, 1951:—

POSTMASTER-GENERAL'S DEPARTMENT: FIXED ASSETS. (£'000.)

| | | · · · · | | | |
|--|----------------------------------|--|-------------------------------|------------------------------|-----------------------------------|
| Particulars. | Net Value, 1st July, 1950. | Capital Expendi- ture, 1950-51. | Gross Value, 30th June, | Depreciation, etc., 1950-51. | Net Value, 30th June, 1951. |
| Telephone service plant (excluding trunk lines) Joint trunk and telegraph plant (aerial wires, conduits, and | 89,864 | 20,498 | 110,362 | 1,059 | 109,303 |
| cables) | 20,287 | 2,659 | 22,946 | 115 | 22,831 |
| Telegraph service plant | 1,304 | 185 | 1,489 | 8 | 1,481 |
| Postal service plant | 733 | 70 | 803 | I | 802 |
| Sites, buildings, furniture and | i | | - , | | |
| office equipment | 17,752 | 3,685 | 21,437 | 321 | 21,116 |
| Miscellaneous plant | 4,993 | 1,936 | 6,929 | 416 | 6,513 |
| Total | 134,933 | 29,033 | 163,966 | 1,920 | 162,046 |

⁽a) Includes dismantled assets, depreciation written off, and assets transferred.

(ii) Net Value. 1938-39 and 1946-47 to 1950-51. The net value of the fixed assets of the Postmaster-General's Department at 30th June, 1939 and 1947 to 1951, respectively, was:—£65,135.000, £94,986.000, £104,281,000, £115,956,000, £134,933,000 and £162,046,000.

At 30th June, 1951 the net value of fixed assets was 148.8 per cent. greater than at 30th June, 1939.

§ 2. Posts.

1. Postal Matter Dealt With.—(i) States. The following table shows a summary of the postal matter dealt with in each State during the year 1950-51. Mail matter posted in Australia for delivery therein is necessarily handled at least twice, but only the number of distinct articles handled is included in the following table.

POSTAL MATTER DEALT WITH(a): STATES, 1950-51.

| State. | | Letters. | Papers and Packets. (c) | Parcels. | Regis- tered Articles. (e) | Letters. | Papers and Packets. (c) | Parcels. | Regis- tered Articles (e) |
|-------------------|---|-----------|----------------------------------|----------|-------------------------------------|-----------|----------------------------------|---------------------|------------------------------------|
| | | Posted fo | or delivery | within A | ustralia. | Post | ed for De | live ry O ve | erseas. |
| New South Wales | | 432,503 | 94,055 | 7,397 | 7,696 | 11,943 | 6.517 | 640 | 684 |
| Victoria | | 340,369 | 58,470 | | | 9,264 | | 423 | 118 |
| Queensland | | 147,447 | 29,537 | 3,058 | 2,222 | 3,107 | | 149 | 68 |
| South Australia | | 94,075 | 11,875 | 1,646 | 1,121 | 2,745 | 670 | 145 | 68 |
| Western Australia | | 76,779 | 14,276 | 1,198 | 882 | 3,435 | | 129 | 58 |
| Tasmania | | 51,241 | 7,181 | 305 | 582 | 406 | | 53 | 75 |
| Australia | | 1,142.414 | 215,394 | 18,551 | 17,273 | 30.900 | 12,109 | 1,539 | 1,071 |
| | | Re | ceived fro | m Overse | as. | Total | Postal ma | tter dealt | with. |
| New South Wales | | 34.944. | 13,919 | 267 | 711 | 479,390 | 114,491 | 8,304 | 9,091 |
| Victoria | | 9,921 | 5,886 | 198 | 160 | 359,554 | 67,059 | 5,568 | 5,048 |
| Queensland | | 4.314 | 3,010 | 59 | 30 | 154,868 | 33,463 | 3,266 | 2,320 |
| South Australia | | 2,863 | 2,975 | 41 | 36 | 99,683 | 15,520 | 1,832 | 1,225 |
| Western Australia | | 2,271 | 2,792 | 45 | 99 | 82,485 | 18,325 | 1,372 | 1,039 |
| Tasmania | | 658 | 1,299 | 14 | 20 | 52,305 | | 372 | 677 |
| Australia | : | 54,971 | 29,881 | 624 | 1,056 | 1,228,285 | | 20,714 | 19,400 |

(a) See explanation in para. r. (i) above.

(b) Includes letters, cards and other postal articles enclosed in envelopes and sorted with letters.

(c) Includes newspapers and postal articles not included in letter mail.

(d) Includes registered, cash on delivery and duty parcels.

(e) Includes registered articles other than parcels.

(ii) Australia. The next table shows the total postal matter dealt with in Australia during the five years 1946-47 to 1950-51 in comparison with the year 1938-39.

TOTAL POSTAL MATTER DEALT WITH: AUSTRALIA.

| | | Postcards er-cards. | Newsp and P | apers ackets. | Parc | els.(a) | Article | Registered Articles other than Parcels. | |
|------------|------------------|------------------------------|------------------|---|------------------|------------------------------|------------------|---|--|
| Year. | Total ('000.) | Per 1,000 of Population. No. | Total ('000.) | Per 1,000 of Popula- tion. No. | Total ('000.) | Per 1,000 of Population. No. | Total ('000.) | Per 1,000 of Population. | |
| 1938-39(b) | 903,090 | 130,245 | 165,362 | 23,849 | 9,585 | 1,382 | 8,371 | 1,207 | |
| 1946-47 | | 130,900 | 210,343 | 27,971 | 20,252 | 2,693 | 19,859 | 2,641 | |
| 1947-48 | 1,036,835 | | 228,957 | 29,967 | 21,880 | 2,864 | 19,913 | 2,606 | |
| 1948–49 | 1,094,617 | 140,356 | 238,939 | 30,639 | 21,200 | 2,718 | 20,705 | 2,655 | |
| 1949-50 | 1,178,837 | 146,446 | 247,134 | 30,700 | 21,340 | 2,651 | 19,165 | 2,381 | |
| 1950–51 | 1,228,285 | 147,784 | 257,384 | 30,968 | 20,714 | 2,492 | 19,400 | 2,334 | |

(a) Includes registered, c.o.d. and duty parcels.

(b) Packets were included with letters.

2. Cash on Delivery Parcels Post.—(i) General. The Postal Department undertakes, upon prepayment of a prescribed commission, to deliver registered articles sent by parcel post within Australia, or between Lord Howe Island, Norfolk Island, Nauru, Territory of Papua and New Guinea, or Fiji and Australia, to recover from the addressee on delivery a sum of money specified by the sender, and to remit the sum to the sender. The object of the system is to meet the requirements of persons who wish to pay at the time of receipt for articles sent to them, and of traders and others who do not wish their goods to be delivered except on payment.

(ii) States, 1950-51. The next table shows particulars regarding the cash on delivery parcels posted in each State for the year 1950-51.

CASH ON DELIVERY PARCELS POST: STATES, 1950-51.

| Particulars. | • | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tas. | Aust. |
|--------------|-------|--------|-----------|-----------------|----------|----------|------|-------|
| | '000 | 585 | 97 | ² 95 | 80 | 95 | 3 | 1,155 |
| | £'000 | 1,588 | 248 | 755 | 173 | 163 | 6 | 2,933 |
| | £'000 | 104 | 20 | 57 | 17 | 14 | | 212 |

(a) From commission and postage.

(iii) Australia. In the following table particulars of cash on delivery parcels posted in Australia are shown for the years 1946-47 to 1950-51 in comparison with the year 1938-39.

CASH ON DELIVERY PARCELS POST: AUSTRALIA. Particulars. 1938-39. 1946-47. | 1947-48. 1948-49. 1949-50. 1950-51. Parcels posted 2000 633 996 970 1,079 1.106 1,155 Value £'000 783 1,843 1,697: 2,361 2,697 2,933 Revenue(a) £'000 86 126 157 т88 138 212

- (a) From commission and postage.
- 3. Total Cost of Carriage of Mails.—During 1950-51 the total amounts paid for the carriage of mails, as disclosed by the Profit and Loss Account of the Postal Branch, were as follows:—Inland mails—Road £1,490.581. Railway £763,832. Air £815,576; Coastwise mails—£34.453; Oversea mails—Sea £454.445. Air £1,135.180; Grand Total—£4,694,067.
- 4. Transactions of the Dead Letter Offices.—During the year 1950-51 there were, in the several States of Australia. 1,669,849 letters, post cards, and lettercards returned to writers or delivered, 209,866 destroyed in accordance with the Act, and 137,961 returned to other States or countries as unclaimed—a total of 2,017,676. Corresponding particulars for packets and circulars were—434,382, 230,370, 31,258 and 696,010. There were 2,713,680 articles handled in all, containing money and valuables amounting to £605,899.
- 5. Money Orders and Postal Notes.—(i) General. The issue of money orders and postal notes is regulated by Sections 74-79 of the Post and Telegraph Act 1901. The maximum amount for which a single money order payable within Australia may be obtained is £40, but additional orders will be issued upon request when larger amounts are to be remitted. The maximum amount permitted to be sent to any person in the sterling area is £8 per month but varying conditions apply for remittance to countries outside the sterling area. A postal note, which is payable only within Australia and in Papua, cannot be issued for a larger sum than twenty shillings.
- (ii) States, 1950-51. Particulars regarding the business transactions in each State for 1950-51 are shown hereunder:—

MONEY ORDERS AND POSTAL NOTES: TRANSACTIONS, 1950-51.

| | | 1 | Money Orders: | | Postal 1 | Notes. |
|--|--------|----------------------------|----------------------------|----------------------------|--------------------------|--|
| State. | State. | | Value Value Issued. Paid. | | Value Issued. | Poundage Received. |
| New South Wales | | £'000. 20,929 10,471 | £'000. 21,233 10,694 | £ 99,066 48,654 | £'000. 5,152 4,552 | £ 99,923 104,564 |
| Queensland South Australia Western Australia | | 6,042 2,752 2,502 | 5,724 2,609 2,444 | 28,761 13,978 13,738 | 1,161 979 643 | 25,752 2 r ,618 13, 0 69 |
| Tasmania | | 1,414 | 1,286 | 6,960 | 259 | 5,925 — |
| Australia | | 44,110 | 43,990 | 211,157 | 12,746 | 270,851 |

⁽iii) Australia, 1938-39 and 1946-47 to 1950-51. The next table shows the number and value of money orders and postal notes issued and paid in Australia in each of the years 1946-47 to 1950-51 compared with 1938-39.

| MONEY ORD | ERS AND | POSTAL | NOTES: | TRANSACTIONS. | AUSTRALIA. |
|-----------|---------|--------|--------|---------------|------------|
|-----------|---------|--------|--------|---------------|------------|

| | | Money | Orders. | | | Postal | Notes. | |
|-----------------|---|--|---|--|---|--|---|--|
| Year. | Issu | ied. | Pai | d. | Issu | ed. | Pa | id. |
| | Number. | Value. | Number. | Value. | Number. | Value. | Number. | Value. |
| 1938-39 1946-47 | 7000. 3,239 3,653 3,898 4,194 4,586 5,166 | £'000. 18,349 27,918 29,799 33,012 37,014 44,110 | '000. 3,254 3,662 3,952 4,215 4,626 5,135 | £'000. 18,548 28,348 30,532 33,262 37,503 43,990 | °000. 21,942 24,864 26,517 28,059 30,181 29,440 | £°000. 7,926 9,536 10,527 11,266 12,206 12,746 | '000. 21,966 24,710 26,353 27,810 29,998 29,297 | £'000. 7,934 9,512 10,469 11,246 12,130 12,680 |

(iv) Classification of Money Orders Issued and Paid: Of the total money orders issued in Australia during 1950-51, 5,018,496 valued at £43,513,517 were payable in Australia, 10,330 (£29,425) in New Zealand, 101,286 (£378,814) in the United Kingdom and 35,960 (£188,485) in other countries. Of the total money orders paid in Australia during 1950-51, 4,998.249 (£43,279,573) were issued in Australia, 29,383 (£83,848) in New Zealand, 69,640 (£352,062) in the United Kingdom and 37,979 (£274,546) in other countries.

Money orders payable or issued in foreign countries, which have been sent from or to Australia through the General Post Office in London, are included in those payable or issued in the United Kingdom.

(v) Postal Notes Paid. The following table shows the number and value of postal notes paid in each State during 1950-5r. Particulars regarding the number and value of postal notes issued and paid in each of the last five years have been given in the previous table.

POSTAL NOTES PAID: STATE OF ISSUE, 1950-51.

| | | | Post | al Notes Pa | id in— | | |
|----------------------|--------|-----------|---------|-------------|----------|--------|--------|
| Issued in— | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tas. | Aust. |
| Same State No. '000 | 9,167 | 5,014 | 1,982 | 1,137 | 1,006 | 471 | 18,777 |
| Value £'000 | 4,531 | 2,374 | 911 | 536 | 468 | 186 | 9,006 |
| Other States No.'000 | 1,174 | 849 | 708 | 161 | 435 | 7,193 | 10,520 |
| Value £'000 | 519 | 391 | 317 | 84 | 93 | 2,270 | 3,674 |
| Total No. 'ooo | 10,341 | 5,863 | 2,690 | 1,298 | 1,441 | 7,664 | 29,297 |
| Value £'ooo | 5,050 | 2,765 | 1,228 | | 561 | 2,456, | 12,680 |

§ 3. Telegraphs.

1. General.—A review of the development of telegraph services in Australia up to 1921 appears in Official Year Book No. 15, p. 625, and subsequent developments of importance have been dealt with in later issues. During the past few years substantial improvements in both the speed and grade of telegraph service throughout Australia have been effected, the entire system being subjected to intensive reorganization. The external circulation system of the Australian telegraph service has been considerably modified, and direct communication has been established between cities and towns which formerly were served through intermediate repeating centres.

Telephone subscribers may telephone telegrams for onward transmission, or have messages telephoned to them. The fee for the service is small, and the system means, in effect, that the telegraph system is brought into the home of every telephone subscriber. The number of telegrams lodged by telephone during the year ended 30th June, 1951 was 9.264,799 or 27 per cent. of the total lodgments.

A radiogram service is provided to certain isolated places throughout Australia and a number of privately operated wireless transceiver stations have been established at various centres throughout the Commonwealth, enabling telegrams to be exchanged with departmental telegraph offices. Stations sponsored by the Flying Doctor Service of Australia can communicate by wireless with base stations.

The picturegram service between Melbourne and Sydney, which was established in 1929, but which was suspended during 1942, was restored and extended to Brisbane and Adelaide in 1949, to Perth in 1950 and to Hobart and Newcastle in 1951. The equipment installed at these points also permits the direct transmission and reception of overseas photo-telegrams. Portable picture-transmitting apparatus has been provided for use at country centres in New South Wales and Victoria and was first used for the opening of the 19th Federal Parliament at Canberra on 21st February, 1950.

Teleprinter services (i.e., typewriting over electrical circuits), affording the great advantage of direct and instantaneous communication between points within the same building or separated by distances up to thousands of miles, and printergram services, connecting any business premises with the local telegraph office for the transmission and reception of telegrams, are available.

A direct radiotelegraph service was established between Australia and Portuguese Timor on 15th August, 1950, providing for the transmission of ordinary and urgent rate telegrams, letter telegrams and press telegrams between these courtries.

2. Telegraph and Telephone Mileages.—The tollowing table shows the combined single wire mileage for both telegraph and telephone purposes in each State as at 30th June, 1951. The lengths of conduits and pole routes are also shown.

| TELEGRAPHS | AND | TELEPHONES: | MHEAGE | 30th | HINE | 1058 |
|------------|-----|-------------|--------|------|------|------|
| | | | | | | |

| Particulars. | N.S.W. | Vic. | Qld. | S.A. | W.A. | Tas. | Aust. |
|--|--------|-------|------|------|------|------|---------------|
| Cables— | , | 1 | | | : | | 1 |
| Exchange aerial, underground and submarine . single wire miles '000 Trunk telephone and telegraph aerial, underground and sub- | 1,513 | 1,215 | 465 | 307 | 250 | 78 | 3, 828 |
| marine single wire miles '000 | 52 | 58 | 8 | 15 | 10 | 3 | 146 |
| Total ,, ,, | 1,565 | 1,273 | 473 | 322 | 260 | 81 | 3,974 |
| Conduits duct miles '000 | 8 | 6 | 2 | r | 2 | 1 | 20 |
| Aerial wires— Telephone, trunk and/or telegraph purposes . single wire miles '000 Exchange and non-exchange ser- | 138 | 91 | 113 | 63 | 49 | .18 | 472 |
| vice lines single wire miles '000 | 201 | 161 | 87 | 81 | 41 | 26 | 597 |
| Total ,, ,, | 339 | 252 | 200 | 144 | 90 | 44 | 1,069 |
| Pole routes total miles '000 | 33 | 22 | 18 | 15 | 14 | 4 | 106 |

3. Telegraph Offices and Telegrams Dispatched within Australia.—(i) States. The following table shows, for each State in 1950-51, the number of telegraph offices (including railway telegraph offices), and the number of telegrams dispatched to places within the Commonwealth and to adjacent islands and to ships at sea, according to the class of message transmitted:—

TELEGRAPH OFFICES, AND TELEGRAMS DISPATCHED. 1950-51.

| Particulars. | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tasmania. | Australia. |
|---------------------------------------|------------|-----------|------------|-------------|-----------|-----------|--------------|
| Telegraph Offices(a) | | | | | | | |
| No Messages ('000)— Paid and Collect— | 3,147 | 2,425 | 1,891 | 926 | 996 | 550 | 9,935 |
| Ordinary | 10,446 | 6,961 | 4,747 | 2,350 | 2,599 | 728 | 27,831 |
| Urgent | 924 | 409 | 272 | 120 | , 98 | 40 | 1,863 |
| Press | 101 | 50 | 42 | 40 | 49 | 11 | 293 |
| Lettergram | 23 | 17 | - 14 | 12 | 18 | 7 | 91 |
| Radiogram | 47 | 4 | 43 | 48 | 56 | 1 | 199 |
| Total | 11,541 | 7,441 | 5,118 | 2,570 | 2,820 | 787 | 30,277 |
| Unpaid Service Meteorological | 326 591 | 157 | 195 386 | 57 1,538 | 78 453 | 34 99 | 847 3,343 |
| Total | 917 | 433 | 581 | 1,595 | 531 | 133 | 4,190 |
| Grand Total | 12,458 | 7,874 | 5,699 | 4,165 | 3,351 | 920 | 34,467 |

⁽a) At 30th June.

(ii) Australia. The numbers of telegraph offices, and of telegrams dispatched to destinations within Australia and to adjacent islands and to ships at sea, for each of the years 1938–39 and 1946–47 to 1950–51 respectively, were:—Telegraph offices—9,389, 9,458, 9,599, 9,701, 9,863 and 9,935; Telegrams dispatched—17,252,000, 33,729,000, 34,692,000, 35,647,000, 35,486,000 and 34,467,000

During the years 1938-39 to 1949-50 the volume of telegraph business more than doubled, but in 1950-51 a decrease of 3 per cent. was recorded on the figures for the previous year.

§ 4. Telephones.

1. General.—Particulars of the total mileage of lines used exclusively for telephone purposes are not available, but are combined with all other line mileage. A table showing the total single wire mileage used for telephone, trunk and/or telegraph purposes is shown in § 3 on page 156.

During 1950-51 the total number of telephones added to the post office system was 99,422, compared with 81,850 in 1949-50. With an average at 1st January, 1951, of 139 telephones per 1,000 of population, Australia continues to hold a high place amongst the countries of the world in respect of telephone density.

Seventy carrier wave telephone systems were installed during 1950-51 on trunk line routes serving capital cities and important provincial centres. The number of carrier systems now in service totals 569, representing a channel mileage of 317,720.

Seventeen automatic exchanges were brought into operation in metropolitan areas during the year, together with 6 country and 74 rural automatic exchanges. At 30th

June, 1951 there were 191 automatic exchanges in the metropolitan area and 323 in country districts to which 764;944 telephones were connected, representing 63 per cent of the total number in use in Australia.

2. Summary for States.—Particulars relating to the telephone service in each State for the year ended 30th June, 1951 compared with 1939 will be found in the following table:—

TELEPHONE SERVICES: SUMMARY. (Number.)

| Particulars. | Year (30th June). | N.S.W. | Vic. | Q'land. | S. Aust. | W. Aust. | Tas. | Aust. |
|------------------------|-------------------------|----------|---------|---------|----------|----------|--------|-----------|
| Exchanges | 1939 | .2;010 | | | | | | |
| | 1951 | 2,182 | | 1,217 | 642 | | 381 | |
| Telephone Offices (in- | 1939 | 3,040 | | 1,517 | -829 | 9071 | 509 | 9,160 |
| eluding Exchanges) | 1951 | 3,248 | 2,450 | 1,763 | 975 | 956 | 536 | |
| Lines connected | 1939 | | 150,570 | | | 26,032 | 14,144 | |
| | 1951 | 1330,368 | | | | 47,743 | 25,380 | 864,088 |
| Instruments con- | | | | 82,226 | 60,451 | 35,830 | 18,013 | 661,996 |
| .nected | 1951 | 465,893 | 381,809 | 157,212 | 103,609 | 66,841 | 34,042 | 1,209,406 |
| (i) Subscribers' in- | 1939 | 250,511 | 203,668 | 79,293 | 58,512 | 34,380 | 17,098 | 643,462 |
| struments | 1951 | 455,190 | 373,205 | 152,282 | 100,455 | 64,549 | 32,730 | 1,178,411 |
| (ii) Public tele- | 1939 | 4,223 | | 1,775 | | | | |
| phones | 1951 | 5,833 | | 2,431 | | 962 | 669 | 15,233 |
| (iii) Other local in- | 1939 | 2,512 | | | | | 353 | 7,458 |
| struments | 1951 | 4,870 | | | | | 643 | |
| Instruments per 100 | 1939 | | | | | | | |
| of population | 1951 | 13.94 | | 12.98 | | , , | | |

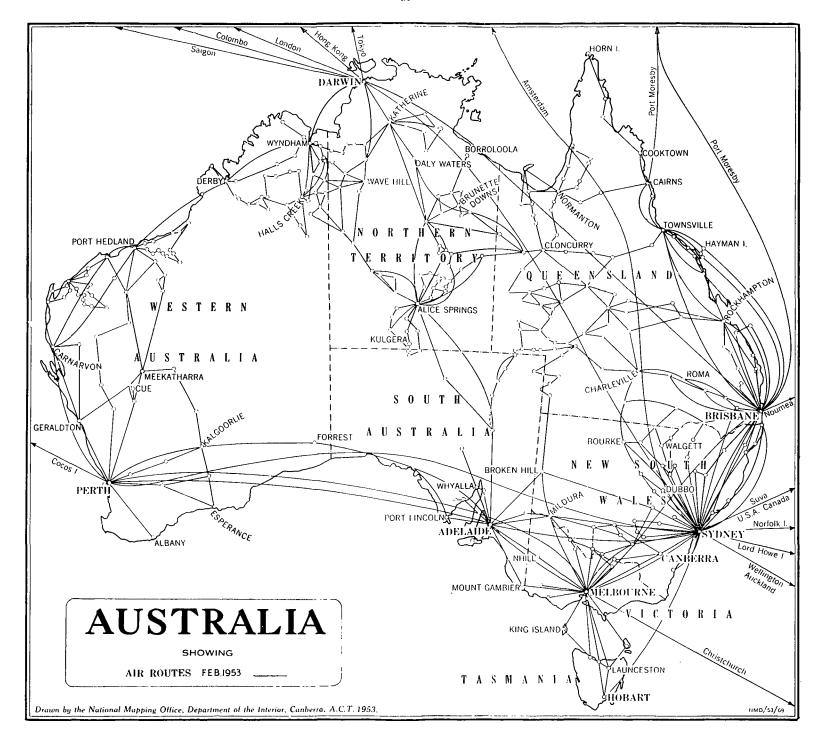
Of the total telephones (1,209,406) in service on 30th June, 1951, 448,849 or 37.11 per cent. were connected to exchanges situated beyond the limits of the metropolitan telephone networks.

3. Subscribers' Lines and Calling-rates.—The next table shows the number of subscribers' lines and the daily calling-rates at central, suburban and country telephone exchanges in the several States for 1950-51:—

TELEPHONES: SUBSCRIBERS' LINES AND DAILY CALLING-RATES, 1950-51.

| | | Cen Excha | | Subu Excha | | Country Exchanges. | | |
|-------------------------------|-------|--|---|--|---|---|---|--|
| State. | | Sub- scribers' Limes Connected. | Avcrage Outward Calls Daily per line. | Sub- scribers' Lines Connected. | Average Outward Calls Daily per line. | Sub- scribers' Lines Connected., | Average Outward Calls Daily per line. | |
| New South Wales Victoria | | 29,513 19,041 | 11.09 12.21 | 186,199 146,534 | 3.90 4.02 | 119,060 88,781 | 1.80 | |
| Queensland South Australia | ••• | 9,420 4,943 | 12.67 14.77 | 44,430 38,225 | 3-27 2-85 | 53,7 ¹ 3 28,776 | 2.23 1.30 | |
| Western Australia Fasmania | ' | 8,829 4,931 | 7-92 5.15 | 18,253 3,944 | 3.72 2.57 | 15,534 | J.4 | |

A comparison of the average daily calling-rates for each class of exchange shows that South Australia registered the greatest number of calls per line at central exchanges, Victoria at suburban exchanges and Queensland at country exchanges.



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4. Effective Paid Local Calls.—The numbers of effective paid local calls from subscribers and public telephones in the various States during the years ended 30th June, 1950 and 1951 appear hereunder.

TELEPHONES: NUMBER OF EFFECTIVE PAID LOCAL CALLS. ('000.)

| | | | (000 | '• <i>1</i> | | | | |
|-----------------------------|--|--|---|---|--|---|---|--|
| State. | | Subscribe | rs' Calls, | Calls from Teleph | | Tota! Calls. | | |
| Surer. | | 1949-50. | 1950-51. | 1949-50. | 1950–51. | 1949-50. | 1950-51. | |
| New South Wales Victoria | | 341,967 241,313 97,360 57,994 44,721 18,021 | 358,669 252,938 102,025 60,511 46,750 17,969 | 42,464 23,222 8,884 7,449 3,601 | 44,403 25,099 9,555 7,767 4,270 1,580 | 384,431 264,535 106,244 65,443 48,322 | 403,072 278,037 111,580 68,278 51,020 19,549 | |
| Australia | | 801,376 | 838,862 | 87,154 | 92,674 | 888,530 | 931,536 | |

In 1938-39 subscribers' calls numbered 551,511,000, calls from public telephones 44,683,000, and total local calls 596,194,000.

5. Trunk Line Calls and Revenue.—In the next table the number of telephone trunk line calls recorded, the amount of revenue received, and the average revenue per call are shown for each of the States for the year 1950-51 compared with 1938-39

TELEPHONES: TRUNK LINE CALLS AND REVENUE.

| - | | , | | | | | | |
|-----------------|----------|-----------|-----------|-----------|----------|----------|--------------------|------------|
| Particula | rs. | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tasmania. | Australia. |
| | | - | | '- | | | | - |
| Total Calls ('o | 000)— | ! | | | | | | |
| 1938-39 | | 14,401 | 11,198 | 7,306 | 4,166 | 2,311 | 1,770 | 41,152 |
| 1950-51 | | 24,978 | 20,262 | 12,305 | 7,664 | 3,881 | 3,412 | 72,502 |
| Total Revenue | e (£)— ; | | | | | | | |
| 1938–39 | 1 | 739,472 | 529,190 | 412,811 | 196,780 | 126,141: | 73,63412 | ,078,028 |
| 1950-51 | 1 | 2,827,546 | 2,066,906 | 1,464,630 | 834,211 | 461,371 | 293,505/7 | ,948,169 |
| Average R | evenue | | | | | | | |
| per Call (pe | ence)— | | | | | | | |
| 1938-39 | | 12.32 | 11.34 | 13.56 | 11.34 | 13.09 | 9.68 | 12.12 |
| 1950-51 | | 27.17 | 24.48 | 28.57 | 26.12 | 28.54 | 20.64 ¹ | 26.31 |
| | | | | | | | | |
| | | | | | | | | |

The number of trunk line calls during 1950-51 increased by more than 4 million, or 6 per cent., compared with the figures for the previous year, whilst the average revenue per call increased by 14.2 per cent.

6. Oversea Telephone Services.—During the year 1950-51 radio-telephone services were established or re-opened between Australia and Hong Kong, Malaya, Manus Island, the Philippine Islands and Venezuela, bringing the number of countries with which radio-telephone communication is available to 61. Service is also provided to certain trans-Atlantic liners, ships off the Australian coast, H.M.A.S. ships, and H.M.N.Z. ships when cruising in Australian waters.

The amount of traffic handled over the radio-telephone services continued to increase rapidly. During 1950-51 the number of calls connected was 39,080, comprising 20,069 originating in Australia and 18,411 incoming calls.

7. Revenue from Telephones.—Particulars regarding the revenue from telephone services are included in tables in § 1.

8. World Telephone Statistics, 1952.—Information derived, in the main, from statistics compiled by the American Telephone and Telegraph Company shows that at 1st January, 1952 there were more than 80,000,000 telephones in use throughout the world. The United States of America, with almost 46,000,000, possessed by far the greatest proportion of these (58 per cent.). The United States of America also had the highest recorded number of instruments per 100 of population (viz. 29). Figures for other leading countries were as follows:—Sweden 25, Canada 22, Switzerland 20, New Zealand 20, Denmark 17. By June. 1952 the number of telephones in Australia per 100 persons had risen to 15.0.

§ 5. Cable and Radio Communication.

- 1. First Cable Communication with the Old World.—In earlier issues of the Official Year Book will be found a detailed account of the connexion of Australia with the Old World by means of submarine cables. (See No. 6, p. 770.)
- 2. General Cable Service.—Descriptions of the various cable services between Australia and other countries are given in Official Year Book No. 22, pp. 335-6.
- 3. Merging of Cable and Wireless Interests.—Following upon the recommendations of the Imperial Wireless and Cable Conference in London in 1928 which examined the situation that had arisen as the result of the competition of the beam wireless with the cable services, the Imperial and International Communications Limited (since renamed Cable and Wireless Ltd.) was formed and took over the operations of the Pacific Cable Board and the control of the Eastern Extension Cable Company and the Marconi Wireless Company. For further developments, leading eventually to the establishment of the Overseas Telecommunications Commission, see Official Year Book No. 37, pp. 220-4.
- 4. Oversea Cable and Radio Traffic.—(i) States. The number of telegrams received from and dispatched overseas in each State during 1950–51 is shown hereunder:—

INTERNATIONAL TELEGRAMS, 1950-51. Q'land. S. Aust. W. Aust. Tasmania. Australia. Particulars. Victoria. 70,814 Number received ... 618,936 466,491 68,915 76,358 20,227 1,321,741 dispatched 685,555 482,224 62,553 77,818 66,314 Total 133,367 146,733 142,672

(ii) Australia. (a) Number of Telegrams. The following table shows the number of international telegrams received from and dispatched overseas during the years 1938-39 and 1940-47 to 1950-51:—

| INTERNATIONAL TELEGRAMS: AUSTRALIA. | | | | | | | | | | |
|-------------------------------------|--------------------|-----------|-----------|-----------|------------------------|-----------|--|--|--|--|
| Particulars. | 193839. | 1946-47. | 1947-48. | 1948-49. | 1949-50. | 1950–51. | | | | |
| Number received, dispatched | 716,007 745,754 | | | | 1,233,102 1,242,376 | | | | | |
| Total | 1,461,761 | 1,031,375 | 2,070,472 | 2,246.039 | 2,475,478 | 2,717,315 | | | | |

(b) Number of Words, 1950-51. The following statement shows particulars of the international business, originating and terminating in Australia, transacted over the cable and wireless services during the year ended 30th June, 1951.

INTERNATIONAL TELEGRAMS, AUSTRALIA, 1950-51. ('000 Words.)

| | | Number of W | ords Transı | mitted to— | Number of Words Received from- | | | |
|-------------------|-----|--------------------|------------------|------------|--------------------------------|------------------|--------|--|
| Class of Trailic. | | United Kingdom. | Other Places. | Total. | United Kingdom. | Other Places. | Total. | |
| | | | | | ŀ | | | |
| Ordinary(a) | | 5,222 | 6,564 | 11,786 | 4,632 | 5,491 | 10,123 | |
| Government(a) | | 1,065 | 1,765 | 2,830 | 2,144 | 2,365 | 4,509 | |
| Greetings | | 1,449 | 865 | 2,314 | T,430 | 840 | 2,270 | |
| Press (including | de- | | - : | | 1 | | | |
| ferred press) | | 3,936 | 3,631 ' | 7,567 | €,459 | 5,369 | 13,828 | |
| Daily letter | | 8,340 | 9,981 | 18,321 | 7,662 | 8,527 | 16,189 | |
| Other | | | 28 | 28 | | 56 | 56 | |
| | | | 1 | | | | | |
| Total | | 20,012 | 22,834 | 42,846 | 24,327 | 22,648 | 46,975 | |

(a) Includes code telegrams.

Words transmitted to "Other places" included 3,542,328 to the United States of America and 6,248,162 to New Zealand and the Pacific Islands. Words received from "Other places" included 3,434,184 from the United States of America and 4,596,041 from New Zealand and the Pacific Islands.

- 5. Coast Stations.—There are 26 wireless stations established at points around the Australian coast and 7 about the coast of Papua and New Guinea. During 1950-51 these stations handled 500,188 messages (379,686 paying, 16,274 service and 104,228 weather) with a total of 7,950,511 paying words. For further information see Transport and Communication Bulletin No. 42, 1950-51.
- 6. Radio-communication Stations Authorized.—(i) States and Territories, 30th June, 1951. The following table shows particulars of the different classes of radio-communication stations authorized at 30th June, 1951 in each State and Territory of the Commonwealth. Figures relate to radio-communication (radio telegraph and radio telephone) stations only; particulars of broadcasting stations and of broadcast listeners' are shown in § 6, para. 3 and 4, following.

RADIO-COMMUNICATION STATIONS AUTHORIZED, 30th JUNE, 1951.

| | Transmitting and Receiving. | | | | | | Rec | | | |
|---|------------------------------------|---------------------------------|--|--|------------------------------|---|---------------------------------|------------------------------|--------------------------------|---|
| State or Territory for which Authorized. | Aero- nauti- cal.(a) | Coast. | Land. | Mobile (Gene- ral).(d) | Miscel- laneous. | Total. | Land. | Mobile (Gene- ral).(d) | Total. | Grand Total. |
| New South Wales Victoria Queensland South Australia Western Australia . Tasmania Northern Territory Aust. Cap. Terr. | 11 9 11 8 13 5 5 | 2 5 6 2 6 4 1 | 371 233 309 146 288 48 142 12 | 872 724 243 248 110 57 3 55 | 26 13 8 3 5 4 | 1,282 984 577 407 422 118 151 69 | 75 197 64 1 31 2 | 36 138 25 6 | 335 89 1 37 1 2 | 1,393 1,319 666 408 459 119 153 71 |
| Total, Australia | 63 | 26 | 1,549 | 2.312 | 60 | 4,010 | 371 | 207 | 578 | 4,588 |
| Papua-New Guinca | 7 | 7 | 198 | 49 | | 261 | | | | 261 |
| Grand Total | 70 | 33 | 1,747 | 2,361 | 60 | 4,271 | 371 | 207 | 578 | (e)4,849 |

(a) Ground stations (aeradio stations) for communication with aircraft stations. (b) Ground stations for communication with ship stations. (c) Stations established at fixed locations on land for the conduct of point-to-point services and for communication with mobile stations. (d) Stations installed in motor vehicles and small harbour vessels not falling within the definition of ship stations or aircraft stations, and stations comprising small portable apparatus used for various purposes. (e) Excludes 218 aircraft stations, 656 ship stations and 146 "other" stations which cannot be classified according to States, etc.

(ii) Australia and Papua-New Guinea 30th June, 1947 to 1951. The following table shows the total number of radio-communication stations authorized in Australia and Papua-New Guinea at 30th June of the years 1947 (the earliest date for which the present classification is available) to 1951.

RADIO-COMMUNICATION STATIONS AUTHORIZED: AUSTRALIA AND PAPUA-NEW GUINEA.

| At acth | Т | ransmitting and | Receivin | g, | Receivi | ng only. | | Air- | Grand |
|------------------|-------------------------|--------------------|---------------------------|---------------------|------------|---------------------------|------------|-----------|---------------|
| At 30th June— | Aero- nauti- cal. | Coast. Land. | Mobile (Gene- ral). | Miscel- laneous. | Land. | Mobile (Gene- ral). | Ship. | craft. | Other. Total. |
| | -1. | | l | ' | | | | | 1 = 1 |
| 1947 . 1948 . | 59 59 | 20 788 24 1,009 | 827 1,208 | 26 68 | 326 331 | 233 259 | 219 345 | 87 168 | 2,585 |
| 1949 . | | 28 1,325 | 1.717 | 47 | 330 | 323 | 520 | 205 | 4,564 |
| 1950 . | 68 | 29 1.517 | 2,011 | 49 | 375 | 311 | 617 | 226 | 139 5,342 |
| 1951 . | 70 | 33 1.747 | 2.361 | 60 | 371 | 207 | 656 | 218 | 146 5,869 |
| _ | | | Ι, | | | ' | ' | | |

See notes to previous table,

§ 6. Broadcasting and Television.

1. The Australian Broadcasting Control Board.—The Australian Broadcasting Act, 1942–1946 was amended in 1948 to provide for the establishment of the Australian Broadcasting Control Board. The amending Act was assented to on 6th December, 1948, and subsequently proclaimed to commence on 15th March, 1949.

The Board operates under the Ministerial jurisdiction of the Postmaster-General, and its principal functions, as set out in Section 6κ of the Act, are to ensure :—(a) the provision of services by broadcasting stations, television stations and facsimile stations, and services of a like kind, in accordance with plans from time to time prepared by the Board and approved by the Minister; (b) that the technical equipment and operation of such stations are in accordance with such standards and practices as the Board considers to be appropriate; and (c) that adequate and comprehensive programmes are provided by such stations to serve the best interests of the general public.

In addition, the Board may exercise such other functions as are prescribed by regulation in relation to broadcasting stations, television stations and facsimile stations.

In the exercise of its functions in respect of programmes, the Board is required—
(n) to consult the Australian Broadcasting Commission and representatives of licensees of commercial broadcasting stations in relation respectively to the programmes of the national and commercial broadcasting services; and (b) in particular to—(i) ensure reasonable variety of programmes; (ii) ensure that divine worship or other matter of a religious nature is broadcast for adequate periods and at appropriate times, and that no matter which is not of a religious nature is broadcast by a station during any period during which divine worship or other matter of a religious nature is broadcast by that station; (iii) ensure that facilities are provided on an equitable basis for the broadcasting of political or controversial matter; (iv) determine the extent to which advertisements may be broadcast in the programme of any commercial broadcasting station; and (v) fix the hours of service of broadcasting stations, television stations and facsimile stations.

The Board is empowered to make recommendations to the Minister as to the exercise by him of any power under Division 1 of Part III. of the Act, which prescribes the conditions under which licences are granted to commercial broadcasting stations.

Under the Television Act (assented to on 20th March, 1953) the Minister is required to take into consideration any recommendations made by the Board as to the exercise of his power to grant licences for commercial television stations.

The Board also has power, subject to the directions of the Minister—(a) to determine the situation and operating power of any broadcasting station, television station or facsimile station; (b) to determine the frequency of each broadcasting station, television station or facsimile station, within bands of frequencies notified to the Board by the Postmaster-General as being available for such stations; (c) after consultation with the Commission to determine the conditions upon which a commercial broadcasting station may broadcast a programme of the National Broadcasting Service; and (d) to regulate the establishment of networks of broadcasting stations and the making of agreements or arrangements by licensees of commercial broadcasting stations for the provision of programmes or the broadcasting of advertisements.

Subject to the approval of the Minister and of the Treasurer, the Board may provide financial and other assistance to commercial broadcasting stations for the purpose of ensuring that programmes of adequate extent, standard and variety are provided in the areas served by these stations.

In addition to prescribing the functions of the Board as set out in section of the Act, the amending Act of 1948 also transferred to the Board certain powers which had previously been exercised by the Minister in connexion with the general control of the broadcasting service, particularly in relation to the operations and programmes of commercial stations.

Section 68 of the Act provides that the Board shall consist of three members appointed by the Governor-General, one of whom shall be chairman. The Board was constituted on 15th March, 1949.

Section 68 of the Act provides that no person shall be appointed as a member of the Board who—(a) has any financial interest, whether direct or indirect, in any company which is the licensee of a commercial broadcasting station or manufactures or deals in equipment for the transmission or reception of broadcasting, television or facsimile programmes; (b) is a member of the governing body of any company or other association of persons which is the licensee of a commercial broadcasting station; or (c) is the licensee of a commercial broadcasting station.

2. The Australian Broadcasting Commission.—(i) General. The Australian Broadcasting Commission was established under the Australian Broadcasting Commission Act 1932 to take over control of national broadcasting with the object of raising the standards of broadcasting in Australia. Control of the Australian Broadcasting Commission is vested in seven Commissioners (originally five), one of whom is an officer of the Treasury and one an officer of the Postmaster-General's Department, and its income is derived from an annual government grant. (For information about the original method of finance see earlier issues of the Official Year Book.) Technical services are provided by the Postmaster-General's Department.

Broadcasting in Australia is a compromise between the system in operation in Great Britain and that in the United States of America. The Australian Broadcasting Commission aims to provide the best possible majority entertainment and also to cater for the needs of important minorities. The programmes of the Australian Broadcasting Commission cover a wide range of activities which are indicated briefly in the following paragraphs. The proportion of broadcasting time allocated to the various types of programmes during 1951-52 was as follows:—Music—Classical and light classical, 21.8 per cent., light music, 18.5 per cent., total music, 40.3 per cent.; Variety, 16.3 per cent.; Drama and Features, 4.4 per cent.; Children's Session, 2.0 per cent.; Youth Education, 3.2 per cent.; Talks, 6.7 per cent.; Parliament, 4.0 per cent.; Religious Broadcasts, 3.7 per cent.; News, 7.7 per cent.; Sport, 5.0 per cent.; Rural Broadcasts, 1.8 per cent.: Non-departmental, 4.9 per cent.

(ii) Music. The Australian Broadcasting Commission is to-day the biggest concertgiving organization in the Commonwealth, and the immense growth of interest in music in this country is illustrated by the fact that Australian listeners in increasing numbers now welcome the opportunity of hearing fine music on the air and in the concert hall, and have magnificently supported the presentation of orchestral concerts and of recitals by the best musicians from their own country and from overseas. In 1936 small regular orchestras were formed by the Australian Broadcasting Commission in Sydney, Melbourne, Brisbane, Adelaide, Perth and Hobart, and from these foundations have grown our present orchestras. Those in Sydney and Melbourne measure up to first-class orchestras overseas, whilst those in the other capital cities are showing rapid improvement and are now the equal of those in many places of comparable size in Europe or America. Until 1946 the cost of these orchestras was met solely by the Australian Broadcasting Commission, but since then State Governments and major municipal bodies in all States have agreed to contribute towards the expense.

The close co-operation between a broadcasting organization, city authorities and State Governments to establish and maintain symphony orchestras is unique in the world.

In 1952, the Australian Broadcasting Commission organized 504 public orchestral concerts (including 130 free concerts for school children and 50 free concerts for adults) and 200 public recitals by famous artists throughout the Commonwealth. Of these concerts, 136 were given outside the capital cities, including 68 free orchestral concerts for school children.

The policy of the Australian Broadcasting Commission so far as individual artists are concerned has always been to develop local talent and at the same time give its audiences the opportunity of hearing famous international musicians.

(iii) Drama and Features. Drama programmes are designed to give listeners opportunities, which they might not otherwise have, of hearing the great plays of all nations as well as adaptations of the best modern stage plays and also those written specially for broadcasting. The main regular drama programmes are broadcast on Saturday and Monday evenings, and special series of longer plays are also given at various times during the year.

In recent years the technique of the feature programme has also been developed in this country. The feature is a form of entertainment which is unique to radio, consisting of specially written programmes designed to present information in an interesting way, and it may deal with a very wide variety of subjects ranging from history and current events to science and the arts. A number of Australian writers have become interested in this form of entertainment and about 97 per cent. of the features broadcast are written by Australians. Local writers also contribute a large proportion of the plays broadcast and every effort is made to assist and encourage their work.

- (iv) Youth Education. The Australian Broadcasting Commission provides a regular series of broadcasts to schools as an addition to normal class-room education. The total number of listening schools at the end of 1952 was 7,682 or nearly 78 per cent. of all schools, State and private, throughout the Commonwealth. Many of the school broadcasts are presented in dramatized form, as this method makes the material more vivid and interesting to the young listener. For the very young children, the Commission broadcasts every week-day the "Kindergarten of the Air", a type of broadcast which originated in Austraha. (See also Chapter XI.—Education, on this subject.)
- (v) Talks. The aim of the Talks Department is to provide programmes which will keep the listener well informed on current affairs and on general topics. Many of the talks in the first category are now presented in a magazine type of session consisting of a number of short items linked by a narrator. The most complete of these built-up programmes is the documentary, in which radio goes into the field to analyse or to describe, using the actual sounds and voices recorded on location.

Controversial topics are covered in two sessions—the weekly discussion broadcast, in which the main conflicting points of view on a current topic are discussed by competent authorities, and the "Nation's Forum of the Air", using the debating technique with questions in person from the studio audience and telephoned from listeners. Another outstanding session is "News Review", containing at least five comments on the news of the day recorded over landline from all States of the Commonwealth and, in the case of significant world events, from overseas by radio-telephone.

- (vi) Rural Broadcasts. The Rural Broadcasts Department was commenced in 1945 to serve the needs of country listeners. It has proved to be of great value to men and women on the land throughout Australia, by giving them the latest market reports and information on general conditions, and by keeping them informed on rural development overseas. The interstate market report is the only Australia-wide market service available to the Australian rural population. Programmes are exchanged with radio organizations in England, Canada, the United States of America and elsewhere, and several visits to Australia by well-known farm radio personalities have also been arranged. The department has encouraged the work of Junior Farmers' Clubs in Australia, and has sponsored competitions for members in connexion with the Royal Agricultural Shows in Sydney and Melbourne.
- (vii) News. On 1st June, 1947, the Australian Broadcasting Commission's independent News Service came into full operation. Since that date the Commission has collected the news for its bulletins independently of the press and it now has, in addition to a large staff throughout Australia, a London news room for the selection and transmission of oversea news secured from the great news agencies. Nine national news bulletins are broadcast daily, and are followed by State bulletins of news of State interest. In addition, two or more regional bulletins are broadcast by local stations in country areas on most days of the week, and for remote country districts special bulletins are broadcast on shortwave. For oversea listeners 19 bulletins daily are broadcast through the Radio Australia transmitters. These bulletins, which are given in English, French and Malay, are directed to every continent, but concentrate on the Pacific and Asian areas. The Australian Broadcasting Commission also rebroadcasts for Australian listeners, by arrangement with the British Broadcasting Corporation, two British Broadcasting Corporation news bulletins each day.
- (viii) Other Activities. The broadcasting of the proceedings of Federal Parliament commenced as a regular service in July, 1946, and Australian listeners are now able to hear debates from the House of Representatives and from the Senate. At present these broadcasts are confined to one of the two transmitters in each capital city, but it is hoped that eventually country listeners will also be able to hear them.

The National Children's Session, presented seven days a week, is composed of over 30 programme items, including stories, music, games, and items about art, literature and natural history. There is a children's newsreel and a Brain's Trust, discussing, through children, more than 100 topics each year. The Argonauts' Club is an important part of the session and encourages children between the ages of 7 and 17 in self-expression and the appreciation of cultural subjects, although fun and the future are not overlooked.

In co-operation with the various religious denominations, the Australian Broadcasting Commission broadcasts several religious sessions each week day in addition to those given on Sundays. These religious broadcasts include relays of normal church services and a variety of special programmes of talks and sacred music. The modern trend towards the use of religious drama is also followed.

The Australian Broadcasting Commission's variety and sporting programmes provide the lighter side of the service. In its variety sessions the Australian Broadcasting Commission does everything possible to assist local artists in order to increase the amount of first-class talent in this country, and encouragement is also given to Australian composers of light music. The Australian Broadcasting Commission's dance bands in Sydney and Melbourne are regarded as being two of the most outstanding bands in Australia.

The Australian Broadcasting Commission's coverage of sport at home and abroad is comprehensive. On Saturday afternoons the sporting panel provides listeners with the progress results and scores, and also descriptions from half a dozen or more fields of sport. Events of international interest such as Test Matches, the Davis Cup, etc., are covered by simultaneous descriptions from Australian Broadcasting Commission commentators. In covering events overseas, the Australian Broadcasting Commission is indebted to the British Broadcasting Corporation for its collaboration in Great Britain, and to the New Zealand Broadcasting Service for events in New Zealand.

- (ix) Transmission Services. In July, 1053, the Australian Broadcasting Commission's home programmes for Australian listeners were transmitted by 44 medium-wave and 8 short-wave stations, and its oversea programmes were transmitted by 4 short-wave stations, two or which are of 100 kW. power and one of 50 kW. The 56 stations in operation at 1st July, 1953 are shown on page 169. The domestic short-wave stations are used for giving service to listeners in the sparsely populated parts of Australia, and in New Guinea and adjacent islands, while the other short-wave stations are directed to listeners overseas. Thirty of the medium-wave stations are situated outside the capital cities, and further regional stations are to be constructed. When these additions have been made, the medium-wave and short-wave stations together will provide for clear reception of the Commission's programmes in practically every part of Australia.
- 3. Broadcast Licences Issued.—(i) States and Territories, 30th June, 1951. The following table shows the number of broadcast licences issued in each State and Territory of the Commonwealth at 30th June, 1951.

| BROADCAST | LICENCES | ISSUED. | 30th | JUNE | 1951 |
|-----------|----------|---------|------|------|------|

| | : | - | | | |
|-------------------------------------|-----------------------|-------------------------|------------------|-------------------------|--------------------|
| | Broade | easting. | Broadcast | Listeners' | |
| State or Territory in which Issued. | National Stations. | Commercial Stations. | One Receiver. | More than one Receiver. | Experi- mental. |
| New South Wales | 12 | 35 | 674,576 | 74,195 | 1,004 |
| Victoria | 7 | 19 | 522,502 | 63,891 | 931 |
| Queensland | 12 | 20 | 270,587 | 17,432 | 314 |
| South Australia | 4 | . 8 | 203,473 | 39,546 | 313 |
| Western Australia | 7 | 12 | 139,669 | 19,767 | 184 |
| Tasmania | 3 | . 8 | 68,149 | 9.594 | 94 |
| Northern Territory | 2 | | 1,222 | 70 | 14 |
| Australian Capital Territory | 1 | 1 | 4,656 | 331 | 12 |
| Total | (b)50 | 103 | 1,884,834 | 224,826 | (c)2,897 |

⁽a) Includes Short-wave Stations: New South Wales 1; Victoria, 3; Queensland 2; Western Australia 2. (b) Includes 1 medium-wave and 1 short-wave station in Papua. (c) Includes 31 stations operated in Papua-New Guinea.

Of broadcast listeners' licences in respect of one receiver, 1,039,287 or 55.14 per cent. were held by persons situated in metropositan areas and 845,547 or 44.86 per cent. by persons in country areas.

(ii) Broadcast Listeners' Licences, 30th June, 1925 to 1951. The following table shows the number of broadcast listeners' licences issued at 30th June, 1925, 1930, 1935, 1939, 1940 and 1946 to 1951:—

BROADCAST LISTENERS' LICENCES ISSUED.

| At 30th June- | | N.S.W. | Victoria. | Q'land. (b) | S. Aust. (c) | W. Aust. | Tasmania. | Australia. |
|---------------|---------|---------|-----------|----------------|--------------|----------|-----------|------------|
| 1925 | | 33,719 | 19,243 | 1,061 | 3,118 | 3,417 | 501 | 61,059 |
| 1930 | | 111,080 | 139,887 | 23,263 | 25,671 | 5,715 | 6,032 | 311,648 |
| 1935 |] | 278,648 | 236,886 | 67,369 | 76,365 | 41,176 | 20,088 | 720,532 |
| 1939 | | 433,029 | 327,579 | 133,217 | 117,307 | 79,262 | 39,392 | 1,129,786 |
| 1940 | | 458,155 | 348,158 | 151,110 | 124,891 | 87,764 | 42,182 | 1,212,260 |
| 1946(d) | | 575,864 | 415,785 | 191,186 | 164,724 | 106,529 | 51,992 | 1,506,080 |
| 1947 | | 679,505 | 499,944 | 228,066 | 180,909 | 121,149 | 61,674 | 1,771,247 |
| 1948 | | 699,259 | 505,106 | 239,342 | 197,326 | 128,703 | 63,080 | 1,832,816 |
| 1949 | | 706,452 | 531,722 | 261,054 | 212,416 | 139,290 | 68,088 | 1,919,022 |
| 1950 | j | 748,268 | 557,556 | 274,279 | 227,911 | 149,328 | 72,286 | 2,029,628 |
| 1951 | · · · _ | 753,758 | 586,393 | 288,019 | 244,311 | 159,436 | 77,743_ | 2,109,660 |

(a) Includes Australian Capital Territory. (b) Includes Papua. (c) Includes Northern Territory. (d) Commencing in July, 1942. licences for receivers in excess of one are included.

4. Broadcasting.—(i) The National Broadcasting Service. (a) Transmitting Stations. The technical services for the National Broadcasting System are provided by the Postmaster-General's Department, and the programmes by the Australian Broadcasting Commission (see page 165).

At 1st July, 1953, the National Broadcasting System of Australia comprised 53 transmitting stations as follows:—

Medium-wave Stations-

2CN and 2CY Canberra. 2BL and 2FC Sydney, 2CO Corowa, 2CR Cumnock, 2LG Lithgow, 2NA and 2NC Newcastle, 2NB Broken Hill, 2NR Grafton, 2NU Manilla, 2TR Tarce, 3AR and 3LO Melbourne, 3GI Sale, 3WV Dooen, 4QG and 4QR Brisbane, 4AT Atherton, 4QB Pialba, 4QL Longreach, 4QN Townsville, 4QA Mackay, 4GM Gympie, 4QS Dalby, 4QY Cairns, 4RK Rockhampton, 4SO Southport, 5AL Alice Springs, 5DR Darwin, 6WF and 6WN Perth, 6GF Kalgoorlie, 6GN Geraldton, 6WA Wagin, 7ZL and 7ZR Hobart, 7NT Kelso, 9PA Port Moresby, Papua.

Short-wave Stations-

VLI Sydney, New South Wales, VLG, VLH and VLR Lyndhurst, Victoria. VLQ and VLM Brisbane, Queensland, VLW and VLX Perth, Western Australia, VLT Port Moresby, Papua.

With the exception of the short-wave stations, all transmitters operate in the medium frequency broadcast band 540 to 1,600 kilocycles per second. From the short-wave stations, using frequencies within the band 3 to 30 megacycles per second, service is given to listeners in sparsely populated parts of Australia such as the north-west of Western Australia, Northern Territory, and Northern and Central Queensland.

In addition to the short-wave stations under the National Broadcasting System there are also three short-wave stations at Shepparton, Victoria (VLA, VLB, VLC) for oversea services only.

Programmes for country regional stations are normally relayed from the central studio of the nearest capital city, high quality programme transmission lines being used for the purpose. A number of programme channels is utilized to link national broadcasting stations in the capital cities of Australia, and frequently this system is extended to connect both the national and commercial broadcasting stations.

- (b) Broadcast Listeners' Licences. (1) Consequent upon an amendment to the Broadcasting Act which was proclaimed to take effect from 1st January, 1952, the fee payable for a broadcast listener's licence or renewal thereof is:—Zone 1, £2; Zone 2, £1 8s. That portion of the Act relating to the payment of additional fees for radio receivers in excess of one was repealed, and the licence now applies to every broadcast receiver which is in possession of the holder of the licence or of a member of his family at the address specified in the licence and/or ordinarily kept at that address or installed in a vehicle which is ordinarily kept at that address while not in use.
- (2) Free licences are granted to blind persons and to schools. Invalid and age pensioners who live alone or with another such pensioner are required to pay only one-quarter the ordinary fee.

Zone I is the area within 250 miles of a National Broadcasting Station. Zone 2 is the remainder of the Commonwealth.

(c) Financial Operations. Since the amendment to the Australian Broadcasting Act, assented to on 6th December, 1948, the Australian Broadcasting Commission prepares estimates of its receipts and expenditure for each financial year and submits these estimates to the Minister. Appropriations are made by Parliament for the purposes of the Commission and these, together with all other moneys received by the Commission, are paid into an account in the Commonwealth Bank of Australia. From this account all costs, charges, expenses, etc., incurred by the Commission in the exercise of its powers and functions under the Act are defrayed. For particulars of the financial operations of the Commission see Chapter XVII.—Public Finance.

- (ii) Commercial Broadcasting Stations. The services of other broadcasting stations are conducted by private enterprise under licence from the Postmaster-General. Licences are granted on conditions which ensure satisfactory alternative programmes for listeners. The fee for a broadcasting station licence is £25 per annum, plus one-half of one per cent. of the gross earnings from the operations of a station which has made a profit in the year preceding. The maximum initial period of a licence is three years, and it is renewed for a period of one year at the discretion of the Postmaster-General. Licensees of these stations rely for their income on revenue received from the broadcasting of advertisements and other publicity. The number of these stations in operation at 30th June, 1952, was 103 and there are other stations in prospect.
- (iii) Radio Inductive Interference. The Postmaster-General's Department takes active measures to suppress, so far as possible, interference with broadcast reception resulting from the radiations of energy from electrical machinery and appliances. During the year 1950-51, 7,577 instances of interfering noises were eliminated with the co-operation of the owners of the offending equipment.
- (iv) Prosecutions under the Wireless Telegraphy Act. During the year 1950-51, 2,991 persons were convicted for using unlicensed broadcast receiving equipment. The total fines and costs amounted to £7,608.
- 5. Television.—Under the Television Act 1953, the Postmaster-General may establish television stations or may grant licences for commercial television stations. No television stations have yet been established. Further reference to television appears in para. 1 above.