

## CHAPTER V.

## TRANSPORT AND COMMUNICATION.

## A. SHIPPING.

## § 1. General.

By reason of the war-time need for economy in the use of paper, and the censorship of statistics the Section relating to Shipping has been omitted from this issue. Particulars up to year 1938-39 may be found in the Official Year Book No. 34, pp. 81 to 93.

## B. RAILWAYS.

## § 1. General.

1. *Introduction.*—The policy of Government ownership and control of railways has been adopted in each State and at 30th June, 1942, only 721 route miles of the 27,962 open for general traffic in Australia were privately owned. Those owned by the State Governments amounted to 25,040 miles, and those owned by the Commonwealth, 2,201 miles. 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 given in *Transport and Communication Bulletin* No. 33, issued by this Bureau, and also in Official Year Book No. 31, p. 125 *et seq.*

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 Book No. 6, p. 681. Further information regarding railway communication in Australia and proposals for unification of gauge in the various systems are given in Official Year Book No. 22, pp. 259-61.

## 3. Government Railways. Lines under Construction and Lines Authorized, 1942.—

(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 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.* The Sutherland to Cronulla (6.31 miles) and Bungendore to Captain's Flat (21.14 miles) lines were opened in December, 1939, and June, 1940, respectively. Construction work on the Sandy Hollow to Maryvale line (approximately 147 miles) and on the connecting link between St. James and Wynyard stations of the underground railway of Sydney has practically ceased for the time being. Work was continued on the new Hawkesbury River railway bridge and approach tunnels, although retarded by the withdrawal of men and plant for urgent defence works. The duplication of track on the main Southern line between Cootamundra and Junee has made good progress, and some preliminary work has been done in connexion with the long range scheme for the quadruplication of tracks on the main Western line between Lidcombe and Penrith.

(b) *Victoria.* In May, 1942, 15.75 miles of line from Nowingi (Mildura line) towards Millewa South were opened. Traffic is being conducted as far as Kaorkee (14.25 miles) on the Euston to Lette (30.25 miles) railway in New South Wales territory, but beyond this point construction has been suspended.

(c) *Queensland.* In previous issues of the Official Year Book details are given of the scheme of railway construction under the provisions of the North Coast Railway Act 1910 (see Official Year Book No. 15, p. 551). The following lines are partially constructed, but no work has been done thereon for a number of years:—Morganville to Kalliwa Creek (12 miles); Yaraka to Powell's Creek (27 miles); Dajarra to Moonah Creek (41 miles); Lawgi to Monto (54 miles); and Winton to 37-Mile (37 miles); a total of 171 miles.

(d) *Other.* At 30th June, 1942, no construction work on new lines was in progress in South Australia, Western Australia, Tasmania, nor for the Commonwealth Government.

(ii) *Lines Authorized for Construction.* (a) *New South Wales.* At 30th June, 1942, the following lines had been authorized for construction but not commenced:—Gilgandra to Collie (21.54 miles); Jerilderie towards Deniliquin (25 miles); Rand to Bull Plain (27.55 miles); Canowindra to Gregra (33.87 miles); St. Leonards to Eastwood (9.07 miles); Inverell to Ashford (32 miles); Gwabegar to Burren Junction (36.25 miles); Gwabegar to Pilliga (18.50 miles); Eastern Suburbs to Bondi (7.75 miles); and Western Suburbs to Western Road (5.55 miles); a total distance of 217.08 miles.

(b) *Victoria.* The following lines were authorized, but construction had not been commenced up to the end of June, 1942:—5 ft. 3 in. gauge: La La Siding to Big Pat's Creek (2.50 miles); Casterton to Nangeela (9 miles); and Orbost to Brodribb (6 miles). Under the Border Railways Act 1922, the Mildura to Gol Gol (22 miles) line has been authorized for construction in New South Wales.

(c) *Queensland.* In addition to the new lines upon which some work has been done Parliament has authorized the construction of the following parts of the Great Western Railway: Section A, from Quilpie to Eromanga (120 miles); Section B, from Powell's Creek (224 miles); Section C, from 37-Mile to Springvale (324 miles); and Section D, from Moonah Creek (216 miles). The following lines were also authorized for construction: Texas to Silverspur (9 miles); Mount Edwards to Maryvale (28 miles); Lanefield to Rosevale (17 miles); Gatton to Mount Sylvia (11 miles); Wandoo to Taroom (42 miles); Dirranbandi extension (52 miles); Yarraman to Nanango (16 miles); Brooloo to Kenilworth (10 miles); Dobbryn to Myally Creek (50 miles); and Perramon towards Boongee (11 miles).

(d) *South Australia.* Parliament has authorized the construction of a line on the 3 ft. 6 in. gauge from Kielpa to Mangalo Hall (26.25 miles). The survey has been completed, but the work cannot be started without a special resolution of both Houses of Parliament.

(e) *Western Australia.* The following lines were authorized for construction up to 30th June, 1942:—Yarramony to Merredin (85 miles); Brookton to Dale River (28 miles); Boyup Brook to Cranbrook (95.23 miles); Manjimup to Mount Barker (107 miles); Leighton to Robb's Jetty (4.62 miles); Southern Cross—Southwards (27.38 miles); Yuna to Dartmoor (52 miles); a total distance of 399.23 miles. The surveys have been completed in respect of all the above lines, except the Boyup Brook to Cranbrook, the Manjimup to Mount Barker, and the Leighton to Robb's Jetty lines.

(f) *Other.* There were no new railways authorized in Tasmania nor for the Commonwealth Government at 30th June, 1942.

4. *Grafton-South Brisbane (Uniform Gauge) Line.*—The line from Grafton (New South Wales) to Brisbane (Queensland) which was opened for traffic on 27th September, 1930, was constructed to overcome the break of gauge between Sydney and Brisbane; and was the first step towards uniform gauge railway communication between the capitals of the mainland States. To 30th June, 1942, the capital cost of construction and equipment was £4,362,500, the interest charge for the year 1941-42 being £225,939. During the same period, the working of the line, which is the responsibility of the New South Wales and Queensland Railway Commissioners, resulted in a profit of £102,617 being shown on the New South Wales section and a profit of £210,244 on the Queensland section. The following amounts were payable as interest—New South Wales, £72,179, and Queensland, £27,029, the remainder, £126,731, being borne by the Commonwealth. Figures relating to the operations, etc., of the line are incorporated as far as possible with those for New South Wales and Queensland in the tables which follow. Further particulars of the construction of the line will be found in Official Year Book, No. 31, p. 122.

5. *Mileage Open for Traffic, all Lines.*—(i) *General.* 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, and it should be understood that the private lines included in the tables below form only a small part of all private railways in Australia.

The following table shows the route mileage of Commonwealth, State and private lines open for general traffic in each State for each of the years 1937-38 to 1941-42 :—

**GOVERNMENT AND PRIVATE RAILWAYS : MILEAGE OPEN.**

| State or Territory.     | 1937-38.  | 1938-39.  | 1939-40.  | 1940-41.  | 1941-42.  |
|-------------------------|-----------|-----------|-----------|-----------|-----------|
|                         | Miles.    | Miles.    | Miles.    | Miles.    | Miles.    |
| New South Wales ..      | 6,204.02  | 6,210.72  | 6,210.30  | 6,196.16  | 6,194.83  |
| Victoria ..             | 4,745.71  | 4,783.91  | 4,783.83  | 4,783.83  | 4,790.81  |
| Queensland ..           | 6,779.04  | 6,750.04  | 6,750.04  | 6,750.04  | 6,750.04  |
| South Australia ..      | 3,860.67  | 3,860.67  | 3,860.67  | 3,860.73  | 3,860.73  |
| Western Australia ..    | 5,106.82  | 5,108.73  | 5,112.29  | 5,112.45  | 5,112.45  |
| Tasmania ..             | 782.55    | 789.55    | 760.76    | 758.28    | 758.28    |
| Northern Territory ..   | 489.73    | 489.73    | 489.73    | 489.73    | 489.73    |
| Aust. Cap. Territory .. | 4.94      | 4.94      | 4.94      | 4.94      | 4.94      |
| Australia ..            | 27,973.48 | 27,998.29 | 27,972.56 | 27,956.16 | 27,961.81 |

In previous issues of the Official Year Book particulars of mileage open are given for different periods from 1855 onwards. (See No. 15, p. 537.)

(ii) *Government and Private Lines Separately.* The next table shows for each State (a) the length of lines open for traffic owned by the State Government, and by the Commonwealth Government in that State and ; (b) the length of private lines available for general use by the public :—

**GOVERNMENT AND PRIVATE RAILWAYS : MILEAGE CLASSIFIED. 1941-42.**

| State or Territory.     | Government Lines— |               | Private Lines available for General Traffic. | Total Open for General Traffic. |
|-------------------------|-------------------|---------------|--|---------------------------------|
|                         | State.            | Commonwealth. |  |                                 |
|                         | Miles.            | Miles.        | Miles.                                       | Miles.                          |
| New South Wales ..      | 6,126.74          | ..            | 68.09  | 6,194.83                        |
| Victoria ..             | 4,765.87          | ..            | 24.94  | 4,790.81                        |
| Queensland ..           | 6,566.65          | ..            | 183.39                                       | 6,750.04                        |
| South Australia ..      | 2,557.44          | 1,252.39      | 50.90  | 3,860.73                        |
| Western Australia ..    | 4,381.46          | 453.99        | 277.00                                       | 5,112.45                        |
| Tasmania ..             | 641.94            | ..            | 116.34                                       | 758.28                          |
| Northern Territory ..   | ..                | 489.73        | ..   | 489.73                          |
| Aust. Cap. Territory .. | ..                | 4.94          | ..   | 4.94                            |
| Australia ..            | 25,040.10         | 2,201.05      | 720.66                                       | 27,961.81                       |

6. *Comparative Railway Facilities.*—The mileage of line open to the public for general traffic (including both Government and private lines) is shown in the following statement in relation to both population and area at 30th June, 1942 :—

**GOVERNMENT AND PRIVATE RAILWAYS : COMPARISON OF FACILITIES, 1941-42.**

| Particulars.                        | N.S.W. | Vic.  | Q'd.  | S.A.  | W.A.  | Tas.  | N.T.  | A.C.T. | Aust. |
|-------------------------------------|--------|-------|-------|-------|-------|-------|-------|--------|-------|
| Mileage of Railway—                 |        |       |       |       |       |       |       |        |       |
| Per 1,000 of population..           | 2.19   | 2.43  | 6.50  | 6.36  | 10.87 | 3.16  | 54.90 | 0.40   | 3.90  |
| Per 1,000 sq. miles of Territory .. | 20.02  | 54.51 | 10.07 | 10.16 | 5.24  | 28.93 | 0.94  | 5.26   | 9.40  |

7. Classification of Lines according to Gauge, 1941-42.—The next table gives a classification according to gauge of the route mileage open of (i) Commonwealth railways, given in the State or Territory in which situated; (ii) State railways; and (iii) Private railways open to the public for general traffic. Particulars of Government railways are up to 30th June, 1942, and of private railways open for general traffic to 31st December, 1942, as nearly as possible.

**GOVERNMENT AND PRIVATE RAILWAYS : GAUGES, 1941-42.**

| State or Territory in which situated.      | Route mileage having a gauge of— |              |             |             |             | Total.    |
|--|----------------------------------|--------------|-------------|-------------|-------------|-----------|
|  | 5 ft. 3 in.                      | 4 ft. 8½ in. | 3 ft. 6 in. | 2 ft. 6 in. | 2 ft. 0 in. |           |
| COMMONWEALTH RAILWAYS.                     |                                  |              |             |             |             |           |
|  | Miles.                           | Miles.       | Miles.      | Miles.      | Miles.      | Miles.    |
| South Australia ..                         | ..                               | 654.21       | 598.18      | ..          | ..          | 1,252.39  |
| Western Australia ..                       | ..                               | 453.99       | ..          | ..          | ..          | 453.99    |
| Northern Territory ..                      | ..                               | ..           | 489.73      | ..          | ..          | 489.73    |
| Aust. Cap. Territory                       | ..                               | 4.94         | ..          | ..          | ..          | 4.94      |
| Total ..                                   | ..                               | 1,113.14     | 1,087.91    | ..          | ..          | 2,201.05  |
| STATE RAILWAYS.                            |                                  |              |             |             |             |           |
|  |                                  |              |             |             |             |           |
| New South Wales ..                         | ..                               | 6,126.74     | ..          | ..          | ..          | 6,126.74  |
| Victoria ..                                | 4,644.10                         | ..           | ..          | 121.77      | ..          | 4,765.87  |
| Queensland ..                              | ..                               | 68.82        | 6,467.57    | ..          | 30.26       | 6,566.65  |
| South Australia ..                         | 1,480.55                         | ..           | 1,076.89    | ..          | ..          | 2,557.44  |
| Western Australia ..                       | ..                               | ..           | 4,381.46    | ..          | ..          | 4,381.46  |
| Tasmania ..                                | ..                               | ..           | 641.94      | ..          | ..          | 641.94    |
| Total ..                                   | 6,124.65                         | 6,195.56     | 12,567.86   | 121.77      | 30.26       | 25,040.10 |
| PRIVATE RAILWAYS OPEN FOR GENERAL TRAFFIC. |                                  |              |             |             |             |           |
|  |                                  |              |             |             |             |           |
| New South Wales ..                         | ..                               | 31.36        | 36.73       | ..          | ..          | 68.09     |
| Victoria ..                                | 13.94                            | ..           | (a) 11.00   | ..          | ..          | 24.94     |
| Queensland ..                              | ..                               | ..           | 80.87       | ..          | 102.52      | 183.39    |
| South Australia ..                         | ..                               | ..           | 50.90       | ..          | ..          | 50.90     |
| Western Australia ..                       | ..                               | ..           | 277.00      | ..          | ..          | 277.00    |
| Tasmania ..                                | ..                               | ..           | 109.84      | ..          | 6.50        | 116.34    |
| Total ..                                   | 13.94                            | 31.36        | 566.34      | ..          | 109.02      | 720.66    |
| ALL RAILWAYS OPEN FOR GENERAL TRAFFIC.     |                                  |              |             |             |             |           |
|  |                                  |              |             |             |             |           |
| New South Wales ..                         | ..                               | 6,158.10     | 36.73       | ..          | ..          | 6,194.83  |
| Victoria ..                                | 4,658.04                         | ..           | (a) 11.00   | 121.77      | ..          | 4,790.81  |
| Queensland ..                              | ..                               | 68.82        | 6,548.44    | ..          | 132.78      | 6,750.04  |
| South Australia ..                         | 1,480.55                         | 654.21       | 1,725.97    | ..          | ..          | 3,860.73  |
| Western Australia ..                       | ..                               | 453.99       | 4,658.46    | ..          | ..          | 5,112.45  |
| Tasmania ..                                | ..                               | ..           | 751.78      | ..          | 6.50        | 758.28    |
| Northern Territory ..                      | ..                               | ..           | 489.73      | ..          | ..          | 489.73    |
| Aust. Cap. Territory                       | ..                               | 4.94         | ..          | ..          | ..          | 4.94      |
| GRAND TOTAL                                | 6,138.59                         | 7,340.06     | 14,222.11   | 121.77      | 139.28      | 27,961.81 |

(a) 3 ft. 0 in. gauge.

8. **Summary of Operations, 1941-42.**—In the following table a summary is given of the working of all railways open for general traffic in Australia during the year ended 30th June, 1942. In order to provide more accurate averages the basis of compilation has been altered in respect of the following items:—Capital cost per mile open, gross revenue, working expenses and net revenue per train mile run (private railways only), and average wages. The comparison with figures published in previous issues is thereby impaired:—

**GOVERNMENT AND PRIVATE RAILWAYS: SUMMARY OF OPERATIONS, 1941-42.**

| Particulars.                                     | Common-wealth Railways. | State Railways. | Private Railways. (a) | Total for Australia. |
|--|-------------------------|-----------------|-----------------------|----------------------|
| Mileage open (route) 30th June, 1942 .. .. miles | 2,201.05                | 25,040.10       | 720.66                | 27,961.81            |
| Capital cost .. .. £                             | 17,433,858              | 306,112,131     | 4,724,515             | 328,270,504          |
| Cost per mile .. .. £                            | 7.921                   | 12.225          | 8.042                 | 11.796               |
| Gross revenue .. .. £                            | 2,195,304               | 64,286,434      | 726,074               | 67,207,812           |
| " " per train-mile d.                            | 226.91                  | 179.11          | 173.21                | 180.28               |
| Working expenses .. .. £                         | 1,506,799               | 49,536,295      | 485,158               | 51,528,252           |
| " " per train-mile d.                            | 155.74                  | 138.01          | 115.74                | 138.22               |
| Net revenue .. .. £                              | 688,505                 | 14,750,139      | 240,916               | 15,679,560           |
| " " per train-mile d.                            | 71.17                   | 41.10           | 54.47                 | 42.06                |
| Train-miles run .. .. miles                      | 2,321,920               | 86,142,768      | 1,131,276             | 89,595,964           |
| Passenger-journeys .. .. No.                     | 332,305                 | 475,117,527     | 1,099,014             | 476,548,846          |
| Tons of goods, etc., carried .. tons             | 326,236                 | 38,613,547      | 3,727,807             | 42,667,590           |
| Average number of employees No. (b)              | 2,405                   | 112,206         | 1,158                 | 115,769              |
| " wage .. .. £                                   | 381                     | 324             | 287                   | 325                  |

(a) Incomplete. Particulars not available for all items.  
(c) Employees at 31st December, 1942.

(b) Excludes Construction Staff.

Details shown above relating to Capital Cost do not include particulars of amounts, totalling about £61.5 million, written off during the past fifteen years. If these are taken into account, the cost per mile for State Railways is increased to £14,681 and for all Railways to £14,007.

## § 2. Government Railways.

1. **Cost of Construction and Equipment.**—The following table gives particulars of the mileage open and the capital cost of Government railways in Australia. The cost shown for Australia (£323,545,989) does not represent the total expenditure on construction and equipment, as in Victoria, Queensland, South Australia and Tasmania, legislation has been introduced for the purpose of reducing the capital indebtedness of the railways. Figures relating to capital cost do not include charges for works in the course of construction, surveys, discounts and flotation charges on loans allocated to the railways.

**GOVERNMENT RAILWAYS: MILEAGE AND COST TO 30TH JUNE, 1942.**

| System.                 | Mileage Open.    |                  | Total Cost of Construction and Equipment. | Average Cost per Route-Mile Open. | Cost per Head of Population. | Route Mileage per 1,000 of Population |
|-------------------------|------------------|------------------|---|-----------------------------------|------------------------------|---------------------------------------|
|                         | Route.           | Track.           |   |                                   |                              |                                       |
|                         | Miles.           | Miles.           | £   | £                                 | £                            | Miles.                                |
| New South Wales         | 6,126.74         | 8,276.68         | 150,661,127                               | 24,591                            | 53.26                        | 2.17                                  |
| Victoria (a) ..         | 4,765.87         | 6,145.91         | 52,718,195                                | 11,062                            | 26.78                        | 2.42                                  |
| Queensland (a) ..       | 6,566.65         | 7,437.00         | 38,827,199                                | 5,913                             | 37.41                        | 6.33                                  |
| South Australia (a)     | 2,557.44         | 3,136.54         | 30,801,278                                | 12,044                            | 50.72                        | 4.21                                  |
| Western Australia       | 4,381.46         | 4,839.65         | 26,393,048                                | 6,024                             | 56.11                        | 9.32                                  |
| Tasmania (a) ..         | 641.94           | 694.00           | 2,348,784                                 | 3,659                             | 9.79                         | 2.68                                  |
| Commonwealth ..         | 2,201.05         | 2,323.78         | 17,433,858                                | 7,921                             | ..                           | ..                                    |
| <b>Australia (a) ..</b> | <b>27,241.15</b> | <b>32,853.56</b> | <b>323,545,989</b>                        | <b>11,877</b>                     | <b>45.10</b>                 | <b>3.80</b>                           |

(a) See below.

(b) Includes Grafton-South Brisbane Line, £4,362,500.

The reductions made in the capital indebtedness referred to above were:—Victoria, £25,684,423; Queensland, £28,000,000; South Australia, £3,088,986; and Tasmania, £4,738,000. After adding these figures to the capital costs of the respective States and adjusting the route-mileage for New South Wales and Queensland to exclude portions of the Grafton–South Brisbane Line, the cost per route-mile open in each State and for the Commonwealth railways is as follows:—New South Wales, £24,459; Victoria, £16,451; Queensland, £10,285; South Australia, £13,252; Western Australia, £6,024; Tasmania, £11,040; Commonwealth, £7,921; and for all Government railways in Australia, £14,082. The lowest average cost is in Western Australia, and the highest is in New South Wales. Very few engineering difficulties were encountered in Western Australia, and the fact that contractors were permitted to carry traffic during the term of their contract considerably reduced expenditure.

Adjusted figures for the cost per head of population for each State and for Australia are as follows:—New South Wales, £52.75; Victoria, £39.82; Queensland, £64.39; South Australia, £55.81; Western Australia, £56.11; Tasmania, £29.54; all Government railways in Australia, £53.47.

2. **Expenditure on Construction and Equipment from Revenue and from Loans:—** The following table gives particulars of the expenditure on construction and equipment from revenue and from loans:—

**GOVERNMENT RAILWAYS: CAPITAL EXPENDITURE FROM REVENUE AND FROM LOANS.**

| System.              | Expenditure from Revenue to 30th June, 1942. | Net Loan Expenditure. |                  |                  |                           |
|----------------------|--|-----------------------|------------------|------------------|---------------------------|
|                      |  | 1939-40.              | 1940-41.         | 1941-42.         | Total to 30th June, 1942. |
|                      | £  | £                     | £                | £                | £                         |
| New South Wales ..   | 666,864                                      | 1,546,461             | 1,297,641        | 1,680,050        | 155,590,757               |
| Victoria ..          | a 6,133,193                                  | (b) 865,500           | (b) 641,845      | (b) 740,271      | b 78,236,053              |
| Queensland ..        | ..   | 500,995               | 529,512          | 95,345           | 66,222,708                |
| South Australia ..   | ..   | 176,084               | 188,722          | 344,673          | 35,468,206                |
| Western Australia .. | 633,808                                      | (c) 99,180            | (c) 98,235       | 25,394           | 25,706,927                |
| Tasmania ..          | 18,121                                       | 29,866                | 33,575           | 40,109           | (d) 7,410,549             |
| Commonwealth ..      | 2,687,877                                    | Cr. 286               | Cr. 2,240        | Cr. 17,656       | 11,413,023                |
| <b>Australia ..</b>  | <b>10,139,863</b>                            | <b>3,217,800</b>      | <b>2,787,290</b> | <b>2,908,186</b> | <b>6382,494,228</b>       |

(a) From proceeds of sale of State lands, Consolidated Revenue Fund, National Recovery Loan, etc.  
 (b) Gross Loan Expenditure. (c) Includes expenditure on railways provided in Unemployment Relief Work programmes. (d) Includes Losses funded. (e) Includes £2,446,005 Commonwealth Loan Expenditure on Grafton–South Brisbane Line.

3. **Gross Revenue.**—(i) *General.* The total revenue from all sources, the revenue per average mile worked and the revenue per train-mile run during the last five years were as follows:—

**GOVERNMENT RAILWAYS: GROSS REVENUE.**

| Year.                | N.S.W.(a) | Vic.(b) | Q'land. | S. Aust. | W. Aust. | Tas.   | C'wealth. | Australia. |
|----------------------|-----------|---------|---------|----------|----------|--------|-----------|------------|
| TOTAL GROSS REVENUE. |           |         |         |          |          |        |           |            |
|                      | £'000.    | £'000.  | £'000.  | £'000.   | £'000.   | £'000. | £'000.    | £'000.     |
| 1937-38 ..           | 20,286    | 9,735   | 7,383   | 3,285    | 3,678    | 464    | 443       | 45,274     |
| 1938-39 ..           | 19,946    | 9,284   | 7,798   | 3,119    | 3,599    | 487    | 547       | 44,780     |
| 1939-40 ..           | 20,755    | 9,861   | 8,090   | 3,168    | 3,556    | 536    | 622       | 46,588     |
| 1940-41 ..           | 24,016    | 11,239  | 8,415   | 3,512    | 3,572    | 600    | 971       | 52,325     |
| 1941-42 ..           | 28,487    | 14,520  | 11,654  | 4,944    | 3,996    | 686    | 2,195     | 66,482     |

(a) Includes £800,000 per annum contribution from consolidated revenue towards losses on working of country development lines. (b) Includes the following recoups by the Treasury—in 1937-38 and 1938-39, £10,000 guarantees in respect of losses on certain lines; and in 1939-40, 1940-41 and 1941-42, £42,000, £39,000 and £36,000 respectively, recoups of losses resulting from reduction in suburban fares.

GOVERNMENT RAILWAYS: GROSS REVENUE—*continued*.

| Year. | N.S.W. | Vic. | Q'land. | S. Aust. | W. Aust. | Tas. | C'wealth. | Australia. |
|-------|--------|------|---------|----------|----------|------|-----------|------------|
|-------|--------|------|---------|----------|----------|------|-----------|------------|

## GROSS REVENUE PER AVERAGE MILE WORKED.

|            | £     | £     | £     | £     | £   | £     | £   | £     |
|------------|-------|-------|-------|-------|-----|-------|-----|-------|
| 1937-38 .. | 3,318 | 2,062 | 1,124 | 1,285 | 841 | 714   | 202 | 1,666 |
| 1938-39 .. | 3,263 | 1,953 | 1,188 | 1,220 | 822 | 740   | 248 | 1,645 |
| 1939-40 .. | 3,392 | 2,072 | 1,232 | 1,239 | 812 | 832   | 283 | 1,711 |
| 1940-41 .. | 3,920 | 2,362 | 1,281 | 1,373 | 815 | 935   | 441 | 1,921 |
| 1941-42 .. | 4,650 | 3,060 | 1,775 | 1,933 | 912 | 1,069 | 997 | 2,442 |

## GROSS REVENUE PER TRAIN-MILE RUN.

|            | d.     | d.     | d.     | d.     | d.     | d.    | d.     | d.     |
|------------|--------|--------|--------|--------|--------|-------|--------|--------|
| 1937-38 .. | 161.20 | 130.40 | 129.83 | 129.00 | 138.52 | 57.70 | 140.19 | 141.22 |
| 1938-39 .. | 159.01 | 124.54 | 134.38 | 121.19 | 131.38 | 61.30 | 145.42 | 138.70 |
| 1939-40 .. | 169.02 | 139.16 | 136.83 | 128.24 | 139.13 | 62.33 | 155.84 | 147.60 |
| 1940-41 .. | 178.53 | 151.82 | 138.30 | 143.07 | 139.53 | 66.45 | 188.86 | 156.80 |
| 1941-42 .. | 187.99 | 190.96 | 170.59 | 179.81 | 150.92 | 75.66 | 226.91 | 180.36 |

(ii) *Coaching, Goods and Miscellaneous Receipts.* (a) *Totals.* 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 table shows the gross revenue from 1937-38 to 1941-42, classified according to the three chief sources of receipts. The total of the three items specified has already been given in the preceding paragraph.

## GOVERNMENT RAILWAYS: COACHING, GOODS AND MISCELLANEOUS RECEIPTS.

| Year. | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tas.   | C'wealth. | Australia. |
|-------|--------|-----------|---------|----------|----------|--------|-----------|------------|
|       | £'000. | £'000.    | £'000.  | £'000.   | £'000.   | £'000. | £'000.    | £'000.     |

## COACHING TRAFFIC RECEIPTS.

|            |        |       |       |       |       |     |     |        |
|------------|--------|-------|-------|-------|-------|-----|-----|--------|
| 1937-38 .. | 6,844  | 4,119 | 1,995 | 728   | 717   | 138 | 167 | 14,708 |
| 1938-39 .. | 6,877  | 4,286 | 2,057 | 754   | 704   | 152 | 194 | 15,024 |
| 1939-40 .. | 7,175  | 4,450 | 2,098 | 784   | 725   | 156 | 229 | 15,617 |
| 1940-41 .. | 8,499  | 5,436 | 2,235 | 976   | 826   | 188 | 356 | 18,516 |
| 1941-42 .. | 10,639 | 6,820 | 3,025 | 1,492 | 1,112 | 223 | 669 | 23,980 |

## GOODS AND LIVE STOCK TRAFFIC RECEIPTS.

|            |        |       |       |       |       |     |       |        |
|------------|--------|-------|-------|-------|-------|-----|-------|--------|
| 1937-38 .. | 10,831 | 4,945 | 5,121 | 2,353 | 2,769 | 311 | 190   | 26,520 |
| 1938-39 .. | 10,356 | 4,276 | 5,474 | 2,144 | 2,807 | 318 | 224   | 25,599 |
| 1939-40 .. | 10,851 | 4,637 | 5,716 | 2,167 | 2,745 | 362 | 247   | 26,725 |
| 1940-41 .. | 12,415 | 4,860 | 5,808 | 2,261 | 2,651 | 392 | 421   | 28,808 |
| 1941-42 .. | 14,387 | 6,573 | 8,239 | 3,057 | 2,736 | 438 | 1,342 | 36,772 |

## MISCELLANEOUS RECEIPTS.

|            | (a)   | (b)   |     |     |        |    |     |       |
|------------|-------|-------|-----|-----|--------|----|-----|-------|
| 1937-38 .. | 2,611 | 671   | 267 | 203 | 192    | 16 | 86  | 4,046 |
| 1938-39 .. | 2,713 | 722   | 266 | 222 | (c) 88 | 17 | 129 | 4,157 |
| 1939-40 .. | 2,729 | 775   | 276 | 217 | 86     | 18 | 145 | 4,246 |
| 1940-41 .. | 3,101 | 944   | 372 | 276 | 94     | 20 | 194 | 5,001 |
| 1941-42 .. | 3,461 | 1,126 | 390 | 395 | 148    | 26 | 184 | 5,730 |

(a) See note (a) to Gross Revenue table above. (b) See note (b) to Gross Revenue table above.  
(c) Several items previously included in "Miscellaneous" now included in "Coaching" and "Goods."

(b) *Percentages.* The following table shows for each of the past two years the percentage which each class of receipts bears to the total gross revenue :—

**GOVERNMENT RAILWAYS : PERCENTAGES OF RECEIPTS.**

| System.              | 1940-41.  |                       |                | 1941-42.  |                       |                |
|----------------------|-----------|-----------------------|----------------|-----------|-----------------------|----------------|
|                      | Coaching. | Goods and Live Stock. | Miscellaneous. | Coaching. | Goods and Live Stock. | Miscellaneous. |
|                      | %         | %                     | %              | %         | %                     | %              |
| New South Wales ..   | 35.39     | 51.70                 | 12.91          | 37.35     | 50.50                 | 12.15          |
| Victoria ..          | 48.37     | 43.24                 | 8.39           | 46.97     | 45.27                 | 7.76           |
| Queensland ..        | 26.56     | 69.02                 | 4.42           | 25.96     | 70.70                 | 3.34           |
| South Australia ..   | 27.78     | 64.37                 | 7.85           | 30.18     | 61.84                 | 7.98           |
| Western Australia .. | 23.12     | 74.23                 | 2.65           | 27.83     | 68.47                 | 3.70           |
| Tasmania ..          | 31.23     | 65.40                 | 3.37           | 32.48     | 63.75                 | 3.77           |
| Commonwealth ..      | 36.69     | 43.36                 | 19.95          | 30.49     | 61.13                 | 8.38           |
| Australia ..         | 35.38     | 55.06                 | 9.56           | 36.07     | 55.31                 | 8.62           |

4. *Working Expenses.*—(i) *General.* In order to make an adequate comparison of the working expenses, 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 percentage of working expenses 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.

During the last two years large amounts, totalling about £2,250,000 in 1940-41 and £5,100,000 in 1941-42, have been set aside by the Railways as reserves, mainly to provide for depreciation and accrued leave, to be expended as circumstances permit. War conditions have subjected the Railways to heavy demands, and shortages in manpower and materials have rendered it impossible to deal with the resulting rapid deterioration of stock, tracks and works. Leave has accrued because shortages in staff have prevented the taking of annual leave. The Railway authorities have therefore taken the opportunity, which increased revenues offered, to provide for these future commitments. Particulars of the amounts thus set aside are included in the Maintenance of Way and Works and Rolling Stock sections following.

The following table shows the total annual expenditure, the percentage thereof on gross revenue, and the expenditure per average mile worked and per train-mile run for the years 1937-38 to 1941-42 :—

**GOVERNMENT RAILWAYS : WORKING EXPENSES.**

| Year.                               | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tasmania. | C'wealth. | Australia. |
|-------------------------------------|--------|-----------|---------|----------|----------|-----------|-----------|------------|
| <b>TOTAL WORKING EXPENSES.</b>      |        |           |         |          |          |           |           |            |
|                                     | £'000. | £'000.    | £'000.  | £'000.   | £'000.   | £'000.    | £'000.    | £'000.     |
| 1937-38 ..                          | 13,760 | 7,830     | 5,887   | 2,867    | 2,710    | 676       | 512       | 34,242     |
| 1938-39 ..                          | 14,543 | 8,060     | 6,193   | 2,931    | 2,911    | 678       | 642       | 35,958     |
| 1939-40 ..                          | 14,647 | 8,058     | 6,368   | 2,937    | 2,828    | 688       | 842       | 36,368     |
| 1940-41 ..                          | 17,162 | 8,959     | 6,708   | 3,062    | 2,758    | 757       | 903       | 40,309     |
| 1941-42 ..                          | 21,712 | 11,600    | 8,488   | 3,856    | 3,026    | 854       | 1,507     | 51,043     |
| <b>PERCENTAGE ON GROSS REVENUE.</b> |        |           |         |          |          |           |           |            |
|                                     | %      | %         | %       | %        | %        | %         | %         | %          |
| 1937-38 ..                          | 67.83  | 80.43     | 79.74   | 87.28    | 73.68    | 145.60    | 115.48    | 75.63      |
| 1938-39 ..                          | 72.91  | 86.82     | 79.42   | 93.97    | 80.90    | 139.18    | 117.43    | 80.30      |
| 1939-40 ..                          | 70.57  | 81.72     | 78.72   | 92.72    | 79.54    | 128.22    | 135.35    | 78.06      |
| 1940-41 ..                          | 71.46  | 79.71     | 79.72   | 87.18    | 77.21    | 126.19    | 93.00     | 77.04      |
| 1941-42 ..                          | 76.22  | 79.89     | 72.83   | 78.00    | 75.72    | 124.51    | 68.64     | 76.78      |

GOVERNMENT RAILWAYS: WORKING EXPENSES—*continued*.

| Year.                    | N.S.W.  | Victoria. | Q'land. | S. Aust. | W. Aust. | Tasmania. | C'wealth. | Australia. |
|--------------------------|---------|-----------|---------|----------|----------|-----------|-----------|------------|
| PER AVERAGE MILE WORKED. |         |           |         |          |          |           |           |            |
| 1937-38 ..               | £ 2,251 | £ 1,659   | £ 897   | £ 1,122  | £ 620    | £ 1,039   | £ 233     | £ 1,260    |
| 1938-39 ..               | 2,378   | 1,695     | 943     | 1,146    | 665      | 1,030     | 292       | 1,321      |
| 1939-40 ..               | 2,394   | 1,693     | 970     | 1,148    | 646      | 1,067     | 382       | 1,336      |
| 1940-41 ..               | 2,801   | 1,883     | 1,022   | 1,197    | 629      | 1,180     | 410       | 1,480      |
| 1941-42 ..               | 3,544   | 2,444     | 1,293   | 1,508    | 691      | 1,331     | 685       | 1,875      |

## PER TRAIN-MILE RUN.

|            |           |           |           |           |           |          |           |           |
|------------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|
| 1937-38 .. | d. 109.34 | d. 104.89 | d. 103.53 | d. 112.60 | d. 102.06 | d. 84.01 | d. 161.90 | d. 106.81 |
| 1938-39 .. | 115.93    | 108.13    | 106.72    | 113.88    | 106.28    | 85.31    | 170.77    | 111.38    |
| 1939-40 .. | 119.28    | 113.71    | 107.71    | 118.90    | 110.66    | 79.92    | 210.93    | 115.22    |
| 1940-41 .. | 127.58    | 121.02    | 110.26    | 124.72    | 107.74    | 83.86    | 175.65    | 120.79    |
| 1941-42 .. | 143.29    | 152.55    | 124.25    | 140.24    | 114.27    | 94.20    | 155.74    | 138.48    |

(ii) *Distribution.* The following table shows the distribution of working expenses under four chief heads of expenditure for the years 1937-38 to 1941-42 :

## GOVERNMENT RAILWAYS: DISTRIBUTION OF WORKING EXPENSES.

| Year. | N.S.W. | Victoria.<br>(a) | Q'land. | S. Aust. | W. Aust. | Tasmania.<br>(b) | C'wealth. | Australia |
|-------|--------|------------------|---------|----------|----------|------------------|-----------|-----------|
|       | £'000. | £'000.           | £'000.  | £'000.   | £'000.   | £'000.           | £'000.    | £'000.    |

## MAINTENANCE OF WAY AND WORKS.(c)

|            |       |       |       |     |     |     |     |        |
|------------|-------|-------|-------|-----|-----|-----|-----|--------|
| 1937-38 .. | 2,614 | 1,406 | 1,537 | 528 | 644 | 135 | 179 | 7,043  |
| 1938-39 .. | 2,972 | 1,374 | 1,602 | 503 | 667 | 129 | 245 | 7,492  |
| 1939-40 .. | 2,835 | 1,342 | 1,610 | 501 | 635 | 120 | 387 | 7,430  |
| 1940-41 .. | 4,118 | 1,513 | 1,765 | 516 | 604 | 126 | 333 | 8,975  |
| 1941-42 .. | 4,482 | 1,961 | 2,378 | 549 | 575 | 133 | 552 | 10,630 |

## ROLLING STOCK.(c)

|            |       |       |       |       |       |     |     |        |
|------------|-------|-------|-------|-------|-------|-----|-----|--------|
| 1937-38 .. | 5,562 | 2,813 | 2,543 | 1,340 | 1,214 | 375 | 208 | 14,055 |
| 1938-39 .. | 5,622 | 2,801 | 2,695 | 1,389 | 1,321 | 373 | 251 | 14,452 |
| 1939-40 .. | 5,744 | 2,824 | 2,799 | 1,382 | 1,306 | 389 | 275 | 14,719 |
| 1940-41 .. | 6,366 | 3,328 | 2,908 | 1,448 | 1,266 | 434 | 336 | 16,086 |
| 1941-42 .. | 8,605 | 4,668 | 3,674 | 1,853 | 1,376 | 486 | 607 | 21,359 |

## TRANSPORTATION AND TRAFFIC.

|            |       |       |       |     |     |     |     |        |
|------------|-------|-------|-------|-----|-----|-----|-----|--------|
| 1937-38 .. | 3,324 | 2,121 | 1,460 | 648 | 715 | 143 | 83  | 8,494  |
| 1938-39 .. | 3,502 | 2,254 | 1,533 | 682 | 779 | 151 | 101 | 9,002  |
| 1939-40 .. | 3,484 | 2,222 | 1,580 | 690 | 736 | 149 | 129 | 8,990  |
| 1940-41 .. | 3,706 | 2,310 | 1,640 | 722 | 745 | 161 | 171 | 9,455  |
| 1941-42 .. | 4,414 | 2,556 | 1,851 | 895 | 794 | 178 | 280 | 10,968 |

**GOVERNMENT RAILWAYS : DISTRIBUTION OF WORKING EXPENSES**  
—continued.

| Year. | N.S.W. | Victoria.<br>(a) | Q'land. | S. Aust. | W. Aust. | Tasmania.<br>(b) | C'wealth. | Australia. |
|-------|--------|------------------|---------|----------|----------|------------------|-----------|------------|
|       | £'000. | £'000.           | £'000.  | £'000.   | £'000.   | £'000.           | £'000.    | £'000.     |

**OTHER CHARGES.**

|            |       |       |     |     |     |    |    |       |
|------------|-------|-------|-----|-----|-----|----|----|-------|
| 1937-38 .. | 2,259 | 1,490 | 348 | 351 | 137 | 23 | 42 | 4,650 |
| 1938-39 .. | 2,448 | 1,630 | 363 | 357 | 144 | 24 | 45 | 5,011 |
| 1939-40 .. | 2,584 | 1,670 | 379 | 365 | 150 | 29 | 52 | 5,229 |
| 1940-41 .. | 2,972 | 1,807 | 396 | 376 | 143 | 36 | 63 | 5,793 |
| 1941-42 .. | 4,122 | 2,414 | 584 | 559 | 282 | 57 | 68 | 8,086 |

(a) Certain amounts charged to special funds, previously deducted from Other Charges, have now been deducted from Maintenance of Way and Works and Rolling Stock. (b) Depreciation charges, previously included in Other Charges, are now included under Rolling Stock. (c) See par. 4 (i).

5. Net Revenue.—The following table shows the net earnings, i.e., the excess of gross earnings over working expenses, and the amount of such net earnings per average mile worked and per train-mile run for the last five years :

**GOVERNMENT RAILWAYS : NET REVENUE.**

| Year. | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tasmania. | C'wealth. | Australia. |
|-------|--------|-----------|---------|----------|----------|-----------|-----------|------------|
|-------|--------|-----------|---------|----------|----------|-----------|-----------|------------|

**NET REVENUE.**

|            | £'000. | £'000. | £'000. | £'000. | £'000. | £'000. | £'000. | £'000. |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1937-38 .. | 6,526  | 1,905  | 1,496  | 418    | 968    | — 212  | — 69   | 11,032 |
| 1938-39 .. | 5,403  | 1,224  | 1,605  | 188    | 688    | — 191  | — 95   | 8,822  |
| 1939-40 .. | 6,108  | 1,803  | 1,722  | 231    | 728    | — 152  | — 220  | 10,220 |
| 1940-41 .. | 6,854  | 2,280  | 1,707  | 450    | 814    | — 157  | 68     | 12,016 |
| 1941-42 .. | 6,774  | 2,920  | 3,166  | 1,088  | 970    | — 168  | 689    | 15,439 |

**NET REVENUE PER AVERAGE MILE WORKED.**

|            | £     | £   | £   | £   | £   | £     | £     | £   |
|------------|-------|-----|-----|-----|-----|-------|-------|-----|
| 1937-38 .. | 1,067 | 403 | 228 | 163 | 221 | — 325 | — 31  | 406 |
| 1938-39 .. | 884   | 257 | 244 | 74  | 157 | — 290 | — 43  | 324 |
| 1939-40 .. | 998   | 379 | 262 | 90  | 166 | — 235 | — 100 | 375 |
| 1940-41 .. | 1,119 | 479 | 260 | 176 | 186 | — 245 | 31    | 447 |
| 1941-42 .. | 1,106 | 615 | 482 | 425 | 221 | — 262 | 313   | 567 |

**NET REVENUE PER TRAIN-MILE RUN.**

|            | d.    | d.    | d.    | d.    | d.    | d.     | d.     | d.    |
|------------|-------|-------|-------|-------|-------|--------|--------|-------|
| 1937-38 .. | 51.86 | 25.52 | 26.30 | 16.40 | 36.46 | —26.31 | —21.71 | 34.41 |
| 1938-39 .. | 43.08 | 16.42 | 27.66 | 7.31  | 25.10 | —24.01 | —25.35 | 27.33 |
| 1939-40 .. | 49.74 | 25.44 | 29.12 | 9.34  | 28.47 | —17.59 | —55.09 | 32.38 |
| 1940-41 .. | 50.95 | 30.81 | 28.05 | 18.35 | 31.80 | —17.40 | 13.21  | 36.01 |
| 1941-42 .. | 44.70 | 38.41 | 46.34 | 39.57 | 36.65 | —18.54 | 71.17  | 41.88 |

In the graphs accompanying this Chapter the gross and net revenue and working expenses are shown from 1870 to 1942.

6. Interest.—The interest payments on expenditure from loans for the construction and equipment of the Government railways in Australia during the five years ended 30th June, 1942, were as follows :—

**GOVERNMENT RAILWAYS : INTEREST PAYMENTS ON RAILWAY LOAN EXPENDITURE.**

| Year.      | N.S.W.<br>(a) | Victoria.<br>(b) | Q'land.<br>(a) (b) | S. Aust.<br>(b) | W. Aust. | Tasmania.<br>(b) | C'wealth. | Australia.<br>(a) |
|------------|---------------|------------------|--------------------|-----------------|----------|------------------|-----------|-------------------|
|            | £'000.        | £'000.           | £'000.             | £'000.          | £'000.   | £'000.           | £'000.    | £'000.            |
| 1937-38 .. | 5,340         | 1,841            | 1,633              | 1,071           | 988      | 80               | 377       | 11,457            |
| 1938-39 .. | 5,360         | 1,860            | 1,642              | 1,075           | 1,001    | 80               | 395       | 11,540            |
| 1939-40 .. | 5,350         | 1,880            | 1,659              | 1,092           | 1,028    | 84               | 387       | 11,607            |
| 1940-41 .. | 5,389         | 1,921            | 1,666              | 1,085           | 1,030    | 85               | 381       | 11,684            |
| 1941-42 .. | 5,389         | 1,948            | 1,554              | 1,075           | 1,033    | 86               | 380       | 11,592            |

(a) Includes interest charges on the Grafton-South Brisbane Line, which for 1941-42 amounted to £225,939 and was contributed by New South Wales, £72,179; Queensland, £27,029; and the Commonwealth, £126,731. See par. 4, p. 109. (b) Capital indebtedness reduced by legislation in these four States. See par. 1, p. 112.

The interest payable on the cost of construction and equipment, after the expenditure from Consolidated Revenue (£9,580,911) for that purpose had been deducted, was at the rate of 3.69 per cent. in 1941-42.

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 in 1941-42 were :—New South Wales, £738,505; Victoria, £209,487; South Australia, £124,495; and Tasmania, £10,168.

7. Profit or Loss.—The following table shows, for the last five years, the actual profit or loss after deducting working expenses, and interest, but excluding exchange, from the gross revenue :—

**GOVERNMENT RAILWAYS : PROFIT OR LOSS.**

**PROFIT OR LOSS AFTER PAYMENT OF WORKING EXPENSES AND INTEREST.**

| Year.      | N.S.W.<br>(a) | Victoria. | Q'land.<br>(a) | S. Aust. | W. Aust. | Tasmania. | C'wealth. | Australia.<br>(a) |
|------------|---------------|-----------|----------------|----------|----------|-----------|-----------|-------------------|
|            | £'000.        | £'000.    | £'000.         | £'000.   | £'000.   | £'000.    | £'000.    | £'000.            |
| 1937-38 .. | 1,186         | 64        | 138            | 653      | 20       | 292       | 445       | 425               |
| 1938-39 .. | 43            | 636       | 37             | 886      | 313      | 274       | 490       | 2,720             |
| 1939-40 .. | 758           | 77        | 63             | 862      | 300      | 235       | 607       | 1,387             |
| 1940-41 .. | 1,464         | 360       | 40             | 634      | 216      | 243       | 313       | 331               |
| 1941-42 .. | 1,384         | 972       | 1,612          | 13       | 63       | 254       | 309       | 3,846             |

(a) See note (a), par. 6, above.

8. 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 more recent years competition from air transport has become an important factor.

The following table gives particulars for the years 1937-38 to 1941-42 :—

### GOVERNMENT RAILWAYS : TRAFFIC.

| Year. | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tasmania. | C'wealth. | Australia. |
|-------|--------|-----------|---------|----------|----------|-----------|-----------|------------|
|-------|--------|-----------|---------|----------|----------|-----------|-----------|------------|

#### NUMBER OF PASSENGER-JOURNEYS.

|            | '000.   | '000.   | '000.  | '000.  | '000.  | '000. | '000. | '000.   |
|------------|---------|---------|--------|--------|--------|-------|-------|---------|
| 1937-38 .. | 189,349 | 137,895 | 25,688 | 17,632 | 12,011 | 2,267 | 100   | 384,942 |
| 1938-39 .. | 186,720 | 142,123 | 24,639 | 17,529 | 11,416 | 2,297 | 117   | 384,841 |
| 1939-40 .. | 179,066 | 144,649 | 24,638 | 17,642 | 10,793 | 2,412 | 130   | 379,330 |
| 1940-41 .. | 194,146 | 159,218 | 26,194 | 20,360 | 11,518 | 2,792 | 194   | 414,422 |
| 1941-42 .. | 218,846 | 180,982 | 29,099 | 28,513 | 14,532 | 3,146 | 332   | 475,450 |

#### PER AVERAGE MILE OF LINE WORKED.

|            | No.    | No.    | No.   | No.    | No.   | No.   | No. | No.    |
|------------|--------|--------|-------|--------|-------|-------|-----|--------|
| 1937-38 .. | 30,970 | 29,209 | 3,912 | 6,901  | 2,746 | 3,482 | 45  | 14,163 |
| 1938-39 .. | 30,541 | 29,896 | 3,752 | 6,854  | 2,608 | 3,490 | 53  | 14,134 |
| 1939-40 .. | 29,269 | 30,395 | 3,752 | 6,899  | 2,464 | 3,746 | 59  | 13,928 |
| 1940-41 .. | 31,687 | 33,457 | 3,989 | 7,961  | 2,629 | 4,349 | 88  | 15,217 |
| 1941-42 .. | 35,720 | 38,137 | 4,431 | 11,149 | 3,317 | 4,900 | 151 | 17,466 |

#### TONNAGE OF GOODS AND LIVE STOCK CARRIED.

|            | '000.  | '000. | '000. | '000. | '000. | '000. | '000. | '000.  |
|------------|--------|-------|-------|-------|-------|-------|-------|--------|
| 1937-38 .. | 16,480 | 7,258 | 5,061 | 2,879 | 3,062 | 857   | 132   | 35,729 |
| 1938-39 .. | 15,417 | 5,976 | 5,234 | 2,640 | 2,859 | 844   | 186   | 33,156 |
| 1939-40 .. | 14,620 | 6,187 | 5,472 | 2,675 | 2,659 | 879   | 199   | 32,691 |
| 1940-41 .. | 18,032 | 6,623 | 5,600 | 2,742 | 2,604 | 955   | 211   | 36,767 |
| 1941-42 .. | 18,588 | 7,503 | 5,761 | 3,100 | 2,638 | 1,024 | 326   | 38,940 |

#### PER AVERAGE MILE OF LINE WORKED.

|            | Tons. | Tons. | Tons. | Tons. | Tons. | Tons. | Tons. | Tons. |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1937-38 .. | 2,696 | 1,537 | 771   | 1,127 | 700   | 1,316 | 60    | 1,315 |
| 1938-39 .. | 2,522 | 1,257 | 797   | 1,032 | 653   | 1,282 | 84    | 1,218 |
| 1939-40 .. | 2,390 | 1,300 | 833   | 1,046 | 607   | 1,365 | 90    | 1,193 |
| 1940-41 .. | 2,943 | 1,392 | 853   | 1,072 | 594   | 1,488 | 96    | 1,350 |
| 1941-42 .. | 3,034 | 1,581 | 877   | 1,212 | 602   | 1,594 | 148   | 1,431 |

(ii) *Metropolitan and Country Passenger Traffic and Revenue 1940-41.* 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 shown below. Figures for the year 1941-42 are not available for all States, because of the reductions in statistical work made necessary by staff shortages and the extra work involved in war traffic. Figures for 1940-41, the latest year for which complete information is available, have therefore been used.

**GOVERNMENT RAILWAYS : METROPOLITAN AND SUBURBAN, AND COUNTRY  
PASSENGER TRAFFIC AND RECEIPTS, 1940-41.**

| System.         | Passenger-Journeys.        |            |             | Revenue.                   |           |            |
|-----------------|----------------------------|------------|-------------|----------------------------|-----------|------------|
|                 | Metropolitan and Suburban. | Country.   | Total.      | Metropolitan and Suburban. | Country.  | Total.     |
|                 | No.                        | No.        | No.         | £                          | £         | £          |
| N.S.W. ..       | 180,441,178                | 13,704,560 | 194,145,738 | 3,403,264                  | 4,232,764 | 7,636,028  |
| Victoria ..     | 149,051,756                | 9,566,656  | 159,218,412 | 2,622,816                  | 2,381,080 | 5,003,896  |
| Queensland ..   | 21,054,711                 | 5,138,847  | 26,193,558  | 365,118                    | 1,424,360 | 1,789,478  |
| S. Australia .. | 18,641,965                 | 1,718,046  | 20,360,011  | 268,893                    | 552,162   | 821,055    |
| W. Australia .. | 9,967,342                  | 1,550,874  | 11,518,216  | 129,469                    | 511,491   | 640,960    |
| Tasmania ..     | (a) 1,789,638              | 1,002,452  | 2,792,090   | (a) 23,921                 | 141,921   | 165,842    |
| Commonwealth .. | ..                         | 193,987    | 193,987     | ..                         | 295,938   | 295,938    |
| Australia ..    | 381,546,590                | 32,875,422 | 414,422,012 | 6,813,481                  | 9,539,716 | 16,353,197 |

(a) Estimated.

(iii) *Goods Traffic.* (a) *Classification.* Some indication of the differing conditions of the traffic in each system is also given 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 representative commodities carried during 1940-41. For the reason given above, figures for 1941-42 are not available for all States.

**GOVERNMENT RAILWAYS : CLASSIFICATION OF COMMODITIES CARRIED, 1940-41.**

'000 TONS CARRIED.

| System.              | Coal, Coke and Shale. | Other Minerals. | Grain and Flour. | Wool. | Live Stock. | All other Commodities. | Total. |
|----------------------|-----------------------|-----------------|------------------|-------|-------------|------------------------|--------|
| New South Wales ..   | (a) 9,340             | 1,607           | 2,145            | 200   | 766         | 3,974                  | 18,032 |
| Victoria ..          | 296                   | 167             | 1,192            | 110   | 741         | 4,117                  | 6,623  |
| Queensland ..        | 894                   | 483             | 322              | 88    | 566         | 3,247                  | 5,600  |
| South Australia ..   | 155                   | 536             | 669              | 39    | 186         | 1,157                  | 2,742  |
| Western Australia .. | 257                   | 192             | 850              | 29    | 119         | 1,157                  | 2,604  |
| Tasmania ..          | (b) 69                | 309             | (c)              | 6     | 29          | 542                    | 955    |
| Commonwealth ..      | 8                     | 24              | (c)              | 5     | 51          | 123                    | 211    |
| Australia ..         | 11,019                | 3,318           | 5,178            | 477   | 2,458       | 14,317                 | 36,767 |

(a) Includes 196,226 tons of coal on which way leave charges only were collected.

(b) Native coal.

(c) Included with "All Other Commodities."

(b) *Revenue.* The following table shows the revenue derived from goods and live stock traffic during 1940-41 :—

**GOVERNMENT RAILWAYS : REVENUE FROM GOODS AND LIVE STOCK, 1940-41.**

| Class.                 | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tas.   | C'wealth. | Australia. |
|------------------------|--------|-----------|---------|----------|----------|--------|-----------|------------|
|                        | £'000. | £'000.    | £'000.  | £'000.   | £'000.   | £'000. | £'000.    | £'000.     |
| General merchandise .. | 7,620  | 3,805     | 3,736   | 1,444    | 2,123    | 279    | 323       | 19,330     |
| Wool ..                | 804    | 224       | 474     | 91       | 76       | 7      | 12        | 1,688      |
| Live-stock ..          | 1,290  | 619       | 823     | 210      | 143      | 25     | 67        | 3,177      |
| Minerals—              |        |           |         |          |          |        |           |            |
| Coal and coke ..       | 2,048  | 94        | 432     | 34       | 152      | (a)    | 2         | 2,762      |
| Other ..               | 473    | 52        | 326     | 431      | 73       | 81     | 13        | 1,449      |
| Miscellaneous ..       | 180    | 66        | 17      | 51       | 84       | ..     | 4         | 402        |
| Total ..               | 12,415 | 4,860     | 5,808   | 2,261    | 2,651    | 392    | 421       | 28,808     |

(a) Included with "Other."

(iv) *Passenger-Mileage.* The following table gives particulars of passenger-mileage in respect of the Government railways in Australia for the years 1939-40 to 1941-42.

**GOVERNMENT RAILWAYS : SUMMARY OF "PASSENGER-MILES."**

| Year ended 30th June—     | Passenger Train-Mileage. | Total Passenger-Miles. | Average Passengers per Train-Mile. | Average Mileage per Passenger-Journey. | Passenger Earnings. |                          |                     |                           | Density of Traffic per Average Mile Worked. |
|---------------------------|--------------------------|------------------------|------------------------------------|--|---------------------|--------------------------|---------------------|---------------------------|---|
|                           |                          |                        |                                    |  | Gross.              | Per Average Mile Worked. | Per Passenger-Mile. | Per Passenger Train-Mile. |   |
|                           |                          |                        |                                    |  | £'000.              | £                        | d.                  | d.                        |   |
|                           | '000.                    | '000.                  | No.                                | Miles.                                 |                     |                          |                     |                           | No.   |
| <b>NEW SOUTH WALES.</b>   |                          |                        |                                    |  |                     |                          |                     |                           |   |
| 1940                      | 18,388                   | 2,199,564              | 120                                | 12.28                                  | 6,347               | 1,038                    | 0.69                | 82.84                     | 359,523                                     |
| 1941                      | 19,890                   | 2,716,377              | 137                                | 13.99                                  | 7,636               | 1,246                    | 0.67                | 92.14                     | 443,345                                     |
| 1942                      | (b)                      | (b)                    | (b)                                | (b)                                    | 69,560              | 1,560                    | (b)                 | (b)                       | (b)   |
| <b>VICTORIA.</b>          |                          |                        |                                    |  |                     |                          |                     |                           |   |
| 1940                      | 11,843                   | 1,367,596              | 115                                | 9.45                                   | 4,032               | 847                      | 0.71                | 81.71                     | 287,375                                     |
| 1941                      | 12,558                   | 1,685,814              | 134                                | 10.59                                  | 5,004               | 1,051                    | 0.71                | 95.63                     | 354,245                                     |
| 1942                      | 12,547                   | (b)                    | (b)                                | (b)                                    | 6,299               | 1,327                    | (b)                 | 120.48                    | (b)   |
| <b>QUEENSLAND.(a)</b>     |                          |                        |                                    |  |                     |                          |                     |                           |   |
| 1940                      | 5,916                    | (b)                    | (b)                                | (b)                                    | 1,574               | 240                      | (b)                 | 63.84                     | (b)   |
| 1941                      | 5,939                    | (b)                    | (b)                                | (b)                                    | 1,711               | 263                      | (b)                 | 69.15                     | (b)   |
| 1942                      | 6,323                    | (b)                    | (b)                                | (b)                                    | 2,416               | 372                      | (b)                 | 91.72                     | (b)   |
| <b>SOUTH AUSTRALIA.</b>   |                          |                        |                                    |  |                     |                          |                     |                           |   |
| 1940                      | 3,615                    | 220,037                | 61                                 | 12.47                                  | 630                 | 246                      | 0.69                | 41.81                     | 86,040                                      |
| 1941                      | 3,519                    | 277,570                | 79                                 | 13.63                                  | 821                 | 321                      | 0.71                | 56.00                     | 108,532                                     |
| 1942                      | 3,854                    | 434,465                | 113                                | 15.24                                  | 1,309               | 512                      | 0.72                | 81.53                     | 169,879                                     |
| <b>WESTERN AUSTRALIA.</b> |                          |                        |                                    |  |                     |                          |                     |                           |   |
| 1940                      | 2,678                    | (b)                    | (b)                                | (b)                                    | 540                 | 123                      | (b)                 | 48.42                     | (b)   |
| 1941                      | 2,762                    | (b)                    | (b)                                | (b)                                    | 641                 | 146                      | (b)                 | 55.70                     | (b)   |
| 1942                      | 2,932                    | (b)                    | (b)                                | (b)                                    | 924                 | 211                      | (b)                 | 75.61                     | (b)   |
| <b>TASMANIA.</b>          |                          |                        |                                    |  |                     |                          |                     |                           |   |
| 1940                      | 1,161                    | 37,269                 | 32                                 | 15.45                                  | 133                 | 207                      | 0.86                | 26.72                     | 57,871                                      |
| 1941                      | 1,193                    | (b)                    | (b)                                | (b)                                    | 166                 | 258                      | (b)                 | 33.36                     | (b)   |
| 1942                      | 1,121                    | (b)                    | (b)                                | (b)                                    | 200                 | 311                      | (b)                 | 42.78                     | (b)   |
| <b>COMMONWEALTH.(d)</b>   |                          |                        |                                    |  |                     |                          |                     |                           |   |
| 1940                      | 423                      | 41,245                 | 98                                 | 318.04                                 | 180                 | 82                       | 1.05                | 102.37                    | 18,739                                      |
| 1941                      | 494                      | 67,985                 | 138                                | 350.46                                 | 296                 | 134                      | 1.04                | 143.92                    | 30,887                                      |
| 1942                      | 459                      | 126,190                | 275                                | 379.74                                 | 584                 | 265                      | 1.11                | 305.46                    | 57,332                                      |

(a) Excludes Queensland portion of Grafton-South Brisbane (Uniform Gauge) Line. (b) Not available. (c) Estimated. (d) Railways controlled by Commonwealth Government.

(v) *Ton-Mileage.* Particulars regarding total “ton-miles” are given in the following table for each of the years 1939-40 to 1941-42 :—

### GOVERNMENT RAILWAYS : SUMMARY OF “TON-MILES.”

| Year ended 30th June— | Goods-Train-Mileage. | Total "Ton-miles." | Average Freight Paying Load per Train-Mile. | Average Haul per Ton. | Goods and Live Stock Earnings. |                          |                 |                       | Density of Traffic per Average Mile worked. |
|-----------------------|----------------------|--------------------|---|-----------------------|--------------------------------|--------------------------|-----------------|-----------------------|---|
|                       |                      |                    |   |                       | Gross.                         | Per Average Mile Worked. | Per "Ton-Mile." | Per Goods-Train-Mile. |   |
|                       |                      |                    |   |                       |                                |                          |                 |                       |   |
| '000.                 | '000.                | Tons.              | Miles.                                      | £'000.                | £                              | d.                       | d.              | Tons.                 |   |
| NEW SOUTH WALES.      |                      |                    |   |                       |                                |                          |                 |                       |   |
| 1940                  | 11,082               | 1,827,662          | 165   | 126.11                | 10,851                         | 1,774                    | 1.42            | 225.98                | 298,735                                     |
| 1941                  | 12,395               | 2,115,786          | 171   | 118.63                | 12,415                         | 2,026                    | 1.39            | 240.39                | 345,885                                     |
| 1942                  | (g)                  | (g)                | (g)   | (g)                   | 14,386                         | 2,348                    | (g)             | (g)                   | (g)   |
| VICTORIA.             |                      |                    |   |                       |                                |                          |                 |                       |   |
| 1940                  | 5,165                | 818,637            | 159   | 132.32                | 4,637                          | 974                      | 1.36            | 218.48                | 172,021                                     |
| 1941                  | 5,209                | 811,890            | 156   | 122.59                | 4,860                          | 1,021                    | 1.44            | 223.92                | 170,601                                     |
| 1942                  | 5,702                | (g)                | (g)   | (g)                   | 6,573                          | 1,385                    | (g)             | 276.68                | (g)   |
| QUEENSLAND.(a)        |                      |                    |   |                       |                                |                          |                 |                       |   |
| 1940                  | 8,175                | (b) 766,635        | (c) 94                                      | (b) 144.72            | 5,646                          | 860                      | (b) 1.76        | (b) 165.76            | (b) 121,625                                 |
| 1941                  | 8,527                | 811,464            | 95  | 150.76                | 5,695                          | 876                      | 1.67            | 160.29                | 128,737                                     |
| 1942                  | 9,920                | (g)                | (g)   | (g)                   | 8,003                          | 1,232                    | (g)             | 193.64                | (g)   |
| SOUTH AUSTRALIA.      |                      |                    |   |                       |                                |                          |                 |                       |   |
| 1940                  | 2,313                | 336,885            | 146   | 125.93                | 2,167                          | 847                      | 1.54            | 220.48                | 131,730                                     |
| 1941                  | 2,373                | 330,836            | 139   | 120.65                | 2,261                          | 884                      | 1.64            | 228.62                | 129,359                                     |
| 1942                  | 2,745                | 385,754            | 141   | 124.43                | 3,057                          | 1,195                    | 1.90            | 267.32                | 150,832                                     |
| WESTERN AUSTRALIA.    |                      |                    |   |                       |                                |                          |                 |                       |   |
| 1940                  | (d) 3,456            | 361,690            | 105   | 136.03                | 2,745                          | 626                      | 1.82            | 190.61                | 82,570                                      |
| 1941                  | (d) 3,382            | 351,245            | 104   | 134.89                | 2,651                          | 605                      | 1.75            | 188.16                | 80,169                                      |
| 1942                  | (d) 3,424            | 341,729            | 100   | 129.51                | 2,736                          | 625                      | 1.86            | 191.81                | 77,994                                      |
| TASMANIA.(e)          |                      |                    |   |                       |                                |                          |                 |                       |   |
| 1940                  | (d) 904              | 42,265             | 47  | 49.83                 | 336                            | 522                      | 1.91            | 89.20                 | 65,630                                      |
| 1941                  | (d) 974              | 48,784             | 50  | 52.68                 | 367                            | 572                      | 1.81            | 90.41                 | 75,988                                      |
| 1942                  | (d) 1,055            | 54,030             | 51  | 54.51                 | 409                            | 637                      | 1.82            | 92.97                 | 84,159                                      |
| COMMONWEALTH.(f)      |                      |                    |   |                       |                                |                          |                 |                       |   |
| 1940                  | 535                  | 37,904             | 71  | 190.39                | 248                            | 112                      | 1.57            | 111.18                | 17,221                                      |
| 1941                  | 740                  | 48,982             | 66  | 232.06                | 421                            | 191                      | 2.06            | 136.50                | 22,254                                      |
| 1942                  | 1,863                | 117,604            | 63  | 360.49                | 1,342                          | 610                      | 2.74            | 172.86                | 53,431                                      |

(a) Excludes Queensland portion of Grafton-South Brisbane (Uniform Gauge) Line. (b) Excludes Cooktown and Normanton Railways and Innisfail and Mourilyan Tramways. (c) Approximate. (d) Estimated. (e) Excludes particulars of live stock carried. (f) Railways controlled by the Commonwealth Government. (g) Not available.

9. **Rolling Stock.**—The following table shows the number of rolling stock in use at 30th June for each of the years 1940 to 1942. Further details may be found in *Transport and Communication Bulletins*.

**GOVERNMENT RAILWAYS : ROLLING STOCK.**

| System.              | 1939-40. |                 |              | 1940-41. |                 |              | 1941-42. |                 |              |
|----------------------|----------|-----------------|--------------|----------|-----------------|--------------|----------|-----------------|--------------|
|                      | Locos.   | Coaching Stock. | Other Stock. | Locos.   | Coaching Stock. | Other Stock. | Locos.   | Coaching Stock. | Other Stock. |
| New South Wales ..   | 1,254    | 2,836           | 24,165       | 1,224    | 2,850           | 24,079       | 1,149    | 2,859           | 24,565       |
| Victoria ..          | 582      | 2,420           | 20,802       | 593      | 2,423           | 20,576       | 583      | 2,418           | 20,760       |
| Queensland ..        | 758      | 1,438           | 18,840       | 769      | 1,450           | 18,983       | 737      | 1,449           | 19,092       |
| South Australia ..   | 330      | 593             | 7,866        | 330      | 606             | 7,936        | 325      | 643             | 7,977        |
| Western Australia .. | 421      | 445             | 11,249       | 411      | 445             | 11,212       | 388      | 449             | 10,984       |
| Tasmania ..          | 95       | 234             | 2,161        | 95       | 230             | 2,162        | 95       | 231             | 2,220        |
| Commonwealth ..      | 113      | 90              | 1,378        | 118      | 98              | 1,430        | 125      | 106             | 1,480        |
| Australia ..         | 3,553    | 8,056           | 86,461       | 3,540    | 8,102           | 86,378       | 3,402    | 8,155           | 87,078       |

10. **Accidents.**—The following table gives 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, 1939-40, and 1940-41 :—

**GOVERNMENT RAILWAYS : ACCIDENTS.**

| System.              | 1938-39. |          | 1939-40. |          | 1940-41. |          |
|----------------------|----------|----------|----------|----------|----------|----------|
|                      | Killed.  | Injured. | Killed.  | Injured. | Killed.  | Injured. |
| New South Wales ..   | 57       | 625      | 56       | 501      | 64       | 525      |
| Victoria ..          | 48       | 466      | 36       | 373      | 48       | 517      |
| Queensland ..        | 23       | 132      | 25       | 162      | 24       | 118      |
| South Australia ..   | 9        | 187      | 16       | 159      | 11       | 202      |
| Western Australia .. | 14       | 142      | 17       | 148      | 14       | 142      |
| Tasmania ..          | 7        | 62       | 8        | 50       | 5        | 39       |
| Commonwealth ..      | 1        | 20       | 2        | 42       | 1        | 33       |
| Australia ..         | 159      | 1,634    | 160      | 1,435    | 167      | 1,576    |

Particulars for the year 1941-42 are not available.

11. **Consumption of Oil and Fuel.**—The following table shows the quantities and values of oil and fuel consumed by the various Government Railway Departments during 1941-42 :—

**GOVERNMENT RAILWAYS : CONSUMPTION AND VALUE OF OIL AND FUEL, 1941-42.**

| System.      | Oil.              |        |                   |        | Coal.          |        |                 |        |
|--------------|-------------------|--------|-------------------|--------|----------------|--------|-----------------|--------|
|              | Lubrication.      |        | Fuel, Light, etc. |        | Locomotives.   |        | Other Purposes. |        |
|              | Gallons.<br>'000. | £'000. | Gallons.<br>'000. | £'000. | Tons.<br>'000. | £'000. | Tons.<br>'000.  | £'000. |
| N.S.W. ..    | 643               | 113    | 1,479             | 76     | 1,274          | 1,116  | 651             | 707    |
| Victoria ..  | 196               | 30     | 1,366             | 74     | 415            | 683    | 166             | 219    |
| Q'land ..    | 297               | 48     | 475               | 36     | 545            | 596    | 11              | 18     |
| S. Aust. ..  | 106               | 17     | 1,019             | 68     | 260            | 475    | 5               | 9      |
| W. Aust. ..  | 81                | 12     | 412               | 21     | 337            | 301    | 9               | 8      |
| Tas. ..      | 49                | 8      | 260               | 14     | 59             | 83     | 2               | 5      |
| C'wealth ..  | 53                | 7      | 201               | 12     | 77             | 159    | 1               | 1      |
| Australia .. | 1,425             | 235    | 5,212             | 301    | 2,967          | 3,413  | 845             | 967    |

12. **Staff Employed.**—The following table gives details of the average staff employed by the Government railways of Australia during 1941-42 :—

**GOVERNMENT RAILWAYS : AVERAGE STAFF EMPLOYED(a), 1941-42.**

| System.              | Operating Staff. |        | Construction Staff. |        | All Employees—Staff. |        |
|----------------------|------------------|--------|---------------------|--------|----------------------|--------|
|                      | Salaried.        | Wages. | Salaried.           | Wages. | Salaried.            | Wages. |
|                      | No.              | No.    | No.                 | No.    | No.                  | No.    |
| New South Wales ..   | 7,348            | 37,943 | 6                   | 1,411  | 7,354                | 39,354 |
| Victoria ..          | 3,358            | 22,051 | (b)                 | (b)    | 3,358                | 22,051 |
| Queensland ..        | 3,296            | 16,800 | 6                   | 98     | 3,302                | 16,898 |
| South Australia ..   | 1,609            | 9,421  | (c)                 | (c)    | 1,609                | 9,421  |
| Western Australia .. | 1,239            | 6,909  | ..                  | ..     | 1,239                | 6,909  |
| Tasmania ..          | 209              | 2,023  | (d)                 | (d)    | 209                  | 2,023  |
| Commonwealth ..      | 206              | 2,199  | ..                  | 41     | 206                  | 2,240  |
| Australia ..         | 17,265           | 97,346 | 12                  | 1,550  | 17,277               | 98,896 |

(a) Excludes members of staff serving with Defence Services. (b) In Victoria, railway construction work is not under the control of the Railways Commissioners. (c) Staff engaged on special work. (d) Construction work has been placed under the direction of the Chief Engineer of the Way and Works Section.

### § 3. Private Railways.

1. **Total Mileage Open, 1941-42.**—The bulk of the private railways in Australia has been laid down for the purpose of hauling timber, firewood, sugar-cane, coal and other minerals, and it is not generally used for the conveyance of passengers or for public goods traffic. In many cases the lines are practically unballasted and easily removable.

The railways referred to in this section include only lines open to the public for general passenger and goods traffic. Complete particulars of lines used for special purposes only are not available.

2. **Lines Open for General Traffic.**—The following statement gives a summary of the operations of private railways open for general traffic for 1941-42 :—

**PRIVATE RAILWAYS : SUMMARY OF OPERATIONS, 1941-42.**

| State.       | Route-Miles Open. | Capital Cost. | Gross Revenue. | Working Expenses. | Train-Miles Run. | Passenger-Journeys. | Goods, etc., Carried. | Em-<br>ployees. |
|--------------|-------------------|---------------|----------------|-------------------|------------------|---------------------|-----------------------|-----------------|
|              | Miles.            | £'000.        | £              | £                 | '000.            | '000.               | '000.<br>Tons.        | No.             |
| N.S.W.(a)    | 68.09             | 1,228         | 359,306        | 213,882           | 403              | 984                 | 670                   | 392             |
| Vic. ..      | 24.94             | 82            | 8,113          | 10,002            | 12               | 7                   | 32                    | 21              |
| Q'land(a)    | 183.39            | 233           | 27,495         | 24,775            | 90               | 4                   | 221                   | 61              |
| S.A.(a) ..   | 50.90             | (b)           | (b)            | (b)               | 102              | (b)                 | 2,439                 | 60              |
| W.A. ..      | 277.00            | 2,258         | 254,759        | 106,834           | 337              | 76                  | 161                   | 289             |
| Tas.(a) ..   | 116.34            | 924           | 150,153        | 129,665           | 187              | 28                  | 205                   | 335             |
| Australia(a) | 720.66            | 4,725         | 799,826        | 485,158           | 1,131            | 1,099               | 3,728                 | 1,158           |

(a) Incomplete. (b) Not available.

Some of the particulars given in the table are incomplete in respect of New South Wales, Queensland, South Australia and Tasmania. In New South Wales and Queensland several lines, although owned by private companies, are operated by the Government Railway Departments, and Government rolling stock is used thereon, while some of the companies are not able to supply particulars of the capital cost, revenue and working

expenses of the lines which they operate. In some cases the figures relating to tonnage of goods, etc., include particulars of coal, ores, timber, sugar-cane, etc., carried for private purposes, as details relating to goods carried for the general public are not recorded separately.

### 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. The systems are operated mainly by governmental and municipal authorities, and are now all electric, with the exception of Government lines at Western Australian north-western ports (9 miles at the end of 1941).

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 (see above), 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.

As non-electric tramways have practically ceased to exist, combined particulars of the mileages, cost of construction and operations of electric and non-electric tramways have been discontinued after 1940-41.

(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 for 1940-41, classified (a) according to the controlling authority; (b) according to the motive-power used; and (c) according to gauge:—

#### TRAMWAYS: ROUTE MILEAGE OPEN, 1940-41.

| Particulars— | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tasmania. | Australia. |
|--------------|--------|-----------|---------|----------|----------|-----------|------------|
|--------------|--------|-----------|---------|----------|----------|-----------|------------|

##### ACCORDING TO CONTROLLING AUTHORITY.

|                 | Miles.        | Miles.        | Miles.       | Miles.       | Miles.       | Miles.       | Miles.        |
|-----------------|---------------|---------------|--------------|--------------|--------------|--------------|---------------|
| Government ..   | 162.20        | 175.50        | ..           | ..           | 58.57        | ..           | 396.27        |
| Municipal ..    | ..            | ..            | 61.59        | 77.47        | 11.90        | 29.44        | 180.40        |
| Private ..      | 3.50          | ..            | ..           | ..           | 9.40         | ..           | 12.90         |
| <b>Total ..</b> | <b>165.70</b> | <b>175.50</b> | <b>61.59</b> | <b>77.47</b> | <b>79.87</b> | <b>29.44</b> | <b>589.57</b> |

##### ACCORDING TO MOTIVE-POWER.

|                    | Miles.        | Miles.        | Miles.       | Miles.       | Miles.       | Miles.       | Miles.        |
|--------------------|---------------|---------------|--------------|--------------|--------------|--------------|---------------|
| Electric ..        | 162.20        | 167.60        | 61.59        | 77.47        | 70.81        | 29.44        | 569.11        |
| Steam or Petrol .. | 3.50          | ..            | ..           | ..           | 9.06         | ..           | 12.56         |
| Cable ..           | ..            | 7.90          | ..           | ..           | ..           | ..           | 7.90          |
| <b>Total ..</b>    | <b>165.70</b> | <b>175.50</b> | <b>61.59</b> | <b>77.47</b> | <b>79.87</b> | <b>29.44</b> | <b>589.57</b> |

##### ACCORDING TO GAUGE.

| Gauge—          |               |               |              |              |              |              |               |
|-----------------|---------------|---------------|--------------|--------------|--------------|--------------|---------------|
| 5 ft. 3 in. ..  | ..            | 5.18          | ..           | ..           | ..           | ..           | 5.18          |
| 4 ft. 8½ in. .. | 165.70        | 170.32        | 61.59        | 77.47        | ..           | ..           | 475.08        |
| 3 ft. 6 in. ..  | ..            | ..            | ..           | ..           | 79.87        | 29.44        | 109.31        |
| <b>Total ..</b> | <b>165.70</b> | <b>175.50</b> | <b>61.59</b> | <b>77.47</b> | <b>79.87</b> | <b>29.44</b> | <b>589.57</b> |

(iii) *Cost of Construction and Equipment.* The table hereunder shows the total cost of construction and equipment of all tramways to 30th June, 1941, classified according to the nature of the motive-power.

**TRAMWAYS : COST OF CONSTRUCTION AND EQUIPMENT, 1940-41.**

| Nature of Motive-power. | New South Wales. | Victoria.   | Queensland. | South Australia. | Western Australia. | Tasmania. | Australia.   |
|-------------------------|------------------|-------------|-------------|------------------|--------------------|-----------|--------------|
| Electric..              | £ 8,759,923      | £ 8,193,974 | £ 2,390,928 | £ 4,433,204      | £ 1,766,313        | £ 663,239 | £ 26,207,581 |
| Steam or                | (a) 20,000       | ..          | ..          | ..               | 87,075             | ..        | 107,075      |
| Petrol                  | ..               | 391,765     | ..          | ..               | ..                 | ..        | 391,765      |
| Cable ..                | ..               | ..          | ..          | ..               | ..                 | ..        | ..           |
| Total ..                | 8,779,923        | 8,585,739   | 2,390,928   | 4,433,204        | 1,853,388          | 663,239   | 26,706,421   |

(a) Estimated.

(iv) *Summary of Operations, 1936-37 to 1940-41.* The following table gives a summary of the working of all tramway systems in Australia for the years 1936-37 to 1940-41 :—

**TRAMWAYS : SUMMARY OF OPERATIONS.**

| Particulars.  | 1936-37. | 1937-38. | 1938-39. | 1939-40. | 1940-41. |
|---|----------|----------|----------|----------|----------|
| Mileage open for traffic .. miles                       | 613.02   | 607.66   | 606.49   | 587.92   | 589.57   |
| Cost of construction and equipment .. £'000             | 26,949   | 26,959   | 26,888   | 26,923   | 26,708   |
| Cost per mile .. .. £                                   | 43,961   | 44,366   | 44,334   | 45,794   | 45,302   |
| Gross revenue .. .. £'000                               | 7,735    | 7,835    | 7,866    | 7,865    | 8,216    |
| Working expenses .. .. "                                | 5,609    | 5,975    | 6,264    | 6,213    | 6,208    |
| Net earnings .. .. "                                    | 2,126    | 1,860    | 1,602    | 1,652    | 2,008    |
| Interest .. .. "  | 1,102    | 1,117    | 1,094    | 1,101    | 1,122    |
| Percentage of working expenses on gross revenue .. .. % | 72.51    | 76.26    | 79.63    | 78.99    | 75.56    |
| Percentage of net earnings on capital cost .. .. %      | 7.89     | 6.90     | 5.96     | 6.14     | 7.52     |
| Tram-miles run .. .. '000 miles                         | 82,295   | 83,806   | 83,838   | 80,343   | 79,058   |
| Gross revenue per tram-mile .. d.                       | 22.56    | 22.44    | 22.52    | 23.49    | 24.94    |
| Working expenses per tram-mile .. "                     | 16.36    | 17.11    | 17.93    | 18.56    | 18.84    |
| Net earnings per tram-mile .. "                         | 6.20     | 5.33     | 4.59     | 4.93     | 6.10     |
| Passenger-journeys .. .. '000                           | 701,941  | 754,957  | 716,351  | 712,772  | 747,312  |
| " .. per tram-mile No.                                  | 8.53     | 8.49     | 8.54     | 8.87     | 9.45     |
| Average revenue per passenger-journey .. d.             | 2.64     | 2.64     | 2.64     | 2.65     | 2.64     |
| Persons employed at end of year No.                     | 17,864   | 18,073   | 17,695   | 17,450   | 17,838   |

2. *Electric Tramways.*—(i) *Financial Operations.* The following table gives the capital cost and the financial result of electric tramways for each State during 1941-42 together with similar details for Australia for the last five years.

## ELECTRIC TRAMWAYS : CAPITAL COST AND FINANCIAL RESULTS.

| State. | Route-Miles Open at 30th June, 1942. | Capital Cost. | Gross Revenue. | Working Expenses. | Net Revenue. | Interest. | Employees at 30th June, 1942. |
|--------|--------------------------------------|---------------|----------------|-------------------|--------------|-----------|-------------------------------|
|--------|--------------------------------------|---------------|----------------|-------------------|--------------|-----------|-------------------------------|

## STATES, 1941-42.

|                      | Miles. | £'000. | £'000. | £'000. | £'000. | £'000. | No.    |
|----------------------|--------|--------|--------|--------|--------|--------|--------|
| New South Wales ..   | 162.20 | 8,609  | 3,802  | 3,336  | 466    | 365    | 8,804  |
| Victoria ..          | 169.05 | 8,471  | 2,937  | 1,690  | 1,247  | 213    | 4,546  |
| Queensland ..        | 62.93  | 2,421  | 1,056  | 734    | 322    | 130    | 1,857  |
| South Australia ..   | 77.47  | 4,451  | 946    | 684    | 262    | 252    | 1,732  |
| Western Australia .. | 69.59  | 1,804  | 486    | 390    | 96     | 45     | 858    |
| Tasmania ..          | 29.44  | 675    | 226    | 181    | 45     | 39     | 370    |
| Australia ..         | 570.68 | 26,431 | 9,453  | 7,015  | 2,438  | 1,044  | 18,167 |

## AUSTRALIA, 1937-38 TO 1941-42.

| 1937-38 .. | 578.16 | 26,132 | 7,602 | 5,783 | 1,819 | 1,112 | 17,464 |
|------------|--------|--------|-------|-------|-------|-------|--------|
| 1938-39 .. | 586.14 | 26,275 | 7,649 | 6,089 | 1,560 | 1,092 | 17,207 |
| 1939-40 .. | 567.57 | 26,355 | 7,679 | 6,062 | 1,617 | 1,098 | 16,983 |
| 1940-41 .. | 569.11 | 26,210 | 8,150 | 6,144 | 2,006 | 1,086 | 17,783 |
| 1941-42 .. | 570.68 | 26,431 | 9,453 | 7,015 | 2,438 | 1,044 | 18,167 |

(ii) *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 1941-42, and for Australia during the last five years:—

## ELECTRIC TRAMWAYS : TRAFFIC AND ACCIDENTS.

| State. | Average Mileage Open for Year. |        | Car-Miles Run. | Passenger-Journeys. | Average Number Passengers per Car-Mile. | Accidents. |          |
|--------|--------------------------------|--------|----------------|---------------------|---|------------|----------|
|        | Route.                         | Track. |                |                     |   | Persons.   |          |
|        |                                |        |                |                     |   | Killed.    | Injured. |

## STATES, 1941-42.

|                    | Miles. | Miles.   | '000.   | '000.   | No.   | No. | No.   |
|--------------------|--------|----------|---------|---------|-------|-----|-------|
| New South Wales    | 162.20 | 305.27   | 233,000 | 375,643 | 11.38 | 53  | 2,068 |
| Victoria ..        | 169.05 | 313.06   | 24,351  | 253,368 | 10.40 | 36  | 696   |
| Queensland ..      | 62.25  | 110.64   | 8,744   | 112,448 | 12.86 | 4   | 426   |
| South Australia .. | 77.47  | 145.86   | 9,287   | 69,131  | 7.44  | 8   | 146   |
| Western Australia  | 69.59  | 107.31   | 5,295   | 49,449  | 9.34  | 9   | 253   |
| Tasmania ..        | 29.44  | 44.33    | 2,160   | 18,977  | 8.78  | 4   | 16    |
| Australia ..       | 570.00 | 1,026.47 | 82,837  | 879,016 | 10.61 | 114 | 3,605 |

(a) Estimated.

ELECTRIC TRAMWAYS: TRAFFIC AND ACCIDENTS—*continued.*

| State.                         | Average Mileage<br>Open for Year. |        | Car-<br>Miles<br>Run. | Passenger-<br>Journeys. | Average<br>Number<br>Passengers<br>per Car-<br>Mile. | Accidents. |          |       |
|--------------------------------|-----------------------------------|--------|-----------------------|-------------------------|--|------------|----------|-------|
|                                | Route.                            | Track. |                       |                         |  | Persons.   |          |       |
|                                |                                   |        |                       |                         |  | Killed.    | Injured. |       |
| AUSTRALIA, 1937-38 TO 1941-42. |                                   |        |                       |                         |  |            |          |       |
| 1937-38                        | ..                                | 577.57 | 1,044.74              | 81,038                  | 689,286  | 8.51       | 71       | 2,853 |
| 1938-39                        | ..                                | 585.37 | 1,045.59              | 81,361                  | 695,476  | 8.55       | 61       | 2,750 |
| 1939-40                        | ..                                | 566.73 | 1,022.60              | 78,207                  | 694,957  | 8.89       | 78       | 2,925 |
| 1940-41                        | ..                                | 569.11 | 1,022.35              | 78,347                  | 741,292  | 9.46       | 80       | 2,921 |
| 1941-42                        | ..                                | 570.00 | 1,026.47              | 82,837                  | 879,016  | 10.61      | 114      | 3,605 |

## D. MOTOR VEHICLES.

1. **Motor Industry.** Although motor cars are not entirely manufactured in Australia the capital invested in assembling and body-building plants is considerable. The importance of the industry is shown by the following figures which relate to the local manufacture of motor bodies and the importation of motor cars, fuel and tyres during the four years ended 1940-41.

## MOTOR VEHICLES, ETC. : LOCAL MANUFACTURE AND IMPORTS.

| Particulars.              | Unit.      | 1937-38.  | 1938-39.  | 1939-40.  | 1940-41.  |
|---------------------------|------------|-----------|-----------|-----------|-----------|
| Motor bodies built ..     | No.        | 92,061    | 79,017    | 72,504    | 49,651    |
|                           | £          | 7,400,497 | 6,379,955 | 5,583,316 | 3,337,346 |
| Imports—                  |            |           |           |           |           |
| Motor bodies ..           | No.        | 646       | 532       | 345       | 50        |
|                           | £          | 63,810    | 56,641    | 27,315    | 4,057     |
| Chassis ..                | No.        | 89,632    | 76,094    | 66,223    | 30,168    |
|                           | £          | 7,355,586 | 6,416,949 | 5,510,931 | 2,799,668 |
| Crude petroleum ..        | Mill. gal. | 70        | 54        |           |           |
|                           | £          | 603,216   | 448,880   |           |           |
| Petroleum spirit, etc. .. | Mill. gal. | 333       | 345       |           |           |
|                           | £          | 5,503,085 | 5,209,650 | (a)       | (a)       |
| Pneumatic tyres and tubes | lb.        | 341,178   | 322,764   |           |           |
|                           | £          | 30,968    | 28,094    |           |           |

(a) Not available for publication.

2. **Registration.**—The arrangements for the registration of motor vehicles and the licensing of drivers and riders thereof are not uniform throughout Australia. Methods of registration, licence fees payable, etc., in each State are referred to in Official Year Book No. 16, pp. 337-40, and later issues up to No. 25.

3. **Public Vehicles.**—In all the capital cities of the States and in many of the most important provincial centres taxi-cabs and other vehicles ply for hire under licence granted either by 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 has had a marked effect on railway and tramway services. The constitution of Boards empowered to

allocate the routes over which omnibuses may operate arose from the belief that the economic waste resulting from duplication, by running services parallel with or contiguous with existing railway and tramway systems, is thus avoided. In some States the railway and tramway systems run motor services complementary to their main services to meet the competition of private enterprise and to endeavour to protect the existing transport utilities provided by public bodies. In addition, there has been a considerable replacement, during the last few years, of existing tramway services by trolley-bus and motor-bus services.

5. Motor Vehicles on the Register, etc.—(i) Year 1941-42. Particulars of the registration of motor vehicles, licences issued and revenue received for 1941-42 are contained in the following table :—

### MOTOR VEHICLES : REGISTRATIONS AND REVENUE, 1941-42.

(Excluding Defence Service Vehicles.)

| State or Territory. | Motor Vehicles Registered at 30th June, 1942.(a) |                         |               |         |   | Drivers' and Riders' Licences in force at 30th June, 1942. | Gross Revenue derived from—          |                                       |                |           |
|---------------------|--|-------------------------|---------------|---------|---|--|--------------------------------------|---------------------------------------|----------------|-----------|
|                     | Motor Cars.(b)                                   | Commercial Vehicles (c) | Motor Cycles. | Total.  | Per 1,000 of Population at 30th June, 1942. |  | Vehicle Registrations and Motor Tax. | Drivers' and Riders', etc., Licences. | Other Sources. | Total.    |
|                     | No.  | No.                     | No.           | No.     | No.   | No.  | £                                    | £                                     | £              | £         |
| N. South Wales      | 171,268  | 72,138                  | 15,323        | 258,729 | 91.47                                       | 427,910  | 2,235,717                            | 214,738                               | 77,995         | 2,528,450 |
| Victoria ..         | 123,649  | 484,589                 | 16,692        | 224,930 | 114.25                                      | 339,334  | 1,563,660                            | 85,053                                | 35,895         | 1,684,608 |
| Queensland ..       | 60,929   | 43,029                  | 5,566         | 109,524 | 105.52                                      | 209,412  | 793,376                              | 52,769                                | 50,623         | 896,768   |
| South Australia     | 49,887   | 21,897                  | 5,359         | 77,143  | 127.04                                      | 106,455  | 446,919                              | 53,674                                | 14,051         | 514,644   |
| Western Aust.       | 29,048   | 21,729                  | 4,052         | 54,829  | 116.56                                      | 73,364   | 324,702                              | 23,328                                | 30,536         | 378,566   |
| Tasmania ..         | 14,189   | 5,438                   | 2,244         | 21,871  | 91.15                                       | 25,282   | 150,788                              | 12,641                                | 22,461         | 185,890   |
| Northern Terr.      | 464  | 1,270                   | 162           | 1,896   | 212.56                                      | 2,182  | 3,191                                | 901                                   | ..             | 4,092     |
| Aust. Cap. Terr.    | 1,417  | 425                     | 69            | 1,911   | 154.55                                      | 2,733  | 10,272                               | 1,469                                 | 143            | 11,884    |
| Australia ..        | 450,851  | 250,515                 | 49,467        | 750,833 | 104.66                                      | 1,186,672  | 5,528,625                            | 444,573                               | 231,704        | 6,204,902 |

(a) Excludes Trailers (22,863), Road Tractors, etc. (2,605), and Dealers' Plates (1,727).  
 (b) Includes Taxis and Hire Cars. (c) Includes Lorries, Vans, Buses and Utility Trucks.  
 (d) Includes 49,521 vehicles registered as primary producers'.

Particulars relating to the number of motor vehicles registered at 30th June, 1943, will be found in the Appendix to this volume.

(ii) *Quinquennium* 1937-38 to 1941-42. The following table shows the number of vehicles registered, licences issued, and revenue received therefrom during each of the years 1937-38 to 1941-42 :—

### MOTOR VEHICLES : REGISTRATIONS AND REVENUE, AUSTRALIA.

(Excludes Defence Service Vehicles.)

| Year.   | Motor Vehicles Registered at 30th June. |                      |               |         |                                       | Drivers' and Riders' Licences in force at 30th June. | Gross Revenue derived from—          |                                       |                |           |
|---------|---|----------------------|---------------|---------|---------------------------------------|--|--------------------------------------|---------------------------------------|----------------|-----------|
|         | Motor Cars.                             | Commercial Vehicles. | Motor Cycles. | Total.  | Per 1,000 of Population at 30th June. |  | Vehicle Registrations and Motor Tax. | Drivers' and Riders', etc., Licences. | Other Sources. | Total.    |
|         | No.                                     | No. (a)              | No.           | No.     | No.                                   | No.  | £                                    | £                                     | £              | £         |
| 1937-38 | 534,963                                 | 241,751              | 80,114        | 856,828 | 124.30                                | 1,175,786  | 5,884,847                            | 470,053                               | 234,161        | 6,589,061 |
| 1938-39 | 562,271                                 | 258,025              | 79,237        | 899,533 | 129.23                                | 1,238,497  | 6,318,435                            | 508,387                               | 244,722        | 7,071,544 |
| 1939-40 | 550,533                                 | 260,994              | 74,496        | 885,023 | 127.20                                | 1,260,781  | 6,520,693                            | 505,383                               | 271,309        | 7,306,385 |
| 1940-41 | 538,483                                 | 262,141              | 70,918        | 871,542 | 122.71                                | 1,260,193  | 6,562,350                            | 496,670                               | 275,911        | 7,334,931 |
| 1941-42 | 450,851                                 | 250,515              | 49,467        | 750,833 | 104.66                                | 1,186,672  | 5,528,625                            | 444,573                               | 231,704        | 6,204,902 |

(a) Includes primary producers' vehicles, Victoria.

(iii) *Relation to Population.* The table hereunder gives the number of vehicles (excluding motor cycles) registered per 1,000 of population in each State at 31st December, 1921, and at 30th June for each of the years 1938 to 1942 :—

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

(Excludes Defence Service Vehicles.)

| Year.              | 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, 1938 .. | 103    | 120  | 111     | 135  | 128  | 90   | 206  | 159    | 113   |
| „ 1939 ..          | 107    | 125  | 118     | 137  | 134  | 96   | 221  | 182    | 118   |
| „ 1940 ..          | 103    | 127  | 119     | 135  | 137  | 95   | 192  | 181    | 117   |
| „ 1941 ..          | 100    | 120  | 116     | 131  | 132  | 96   | 195  | 163    | 113   |
| „ 1942 ..          | 86     | 106  | 100     | 118  | 108  | 82   | 176  | 149    | 98    |

(a) Not available.

(iv) *Revenue per Motor Vehicle.* The following table gives the average revenue per vehicle (excluding motor cycles) received in respect of registration and motor tax in the several States for each year from 1937-38 to 1941-42. In some States the revenue from motor tax on cycles is not separately recorded. In these cases an amount based on the flat rate provided for cycles in the registration acts has been deducted from the total revenue received, and the average amounts shown must therefore be regarded as approximate only. Registration fees and motor taxes were reduced, during the year 1941-42, in the States of New South Wales, Victoria and Western Australia. In South Australia the reduction was made in the last half of 1940-41. The reduction was generally 25 per cent., except in the case of New South Wales, where it was 20 per cent. In July, 1942, Australian Capital Territory fees were reduced by 15 per cent.

**AVERAGE REVENUE PER VEHICLE FROM REGISTRATION FEES AND MOTOR TAX (EXCLUDING MOTOR CYCLES).**

| State or Territory.   | 1937-38. | 1938-39. | 1939-40. | 1940-41. | 1941-42. |
|-----------------------|----------|----------|----------|----------|----------|
|                       | £ s. d.  | £ s. d.  | £ s. d.  | £ s. d.  | £ s. d.  |
| New South Wales ..    | 7 17 11  | 7 19 10  | 8 11 5   | 9 1 4    | 8 18 2   |
| Victoria ..           | 7 5 11   | 7 6 0    | 7 7 0    | 7 8 6    | 7 4 7    |
| Queensland ..         | 6 5 10   | 6 15 11  | 7 6 5    | 7 7 10   | 7 8 1    |
| South Australia ..    | 7 4 7    | 7 9 10   | 7 6 11   | 7 15 6   | 5 19 8   |
| Western Australia ..  | 6 5 2    | 6 6 0    | 6 2 6    | 6 8 1    | 6 4 8    |
| Tasmania ..           | 5 17 6   | 6 13 3   | 7 5 1    | 7 5 1    | 7 6 3    |
| Northern Territory .. | 1 8 1    | 1 11 0   | 1 15 2   | 1 19 8   | 1 18 6   |
| Aust. Cap. Territory  | 5 18 7   | 5 15 2   | 5 16 11  | 5 16 10  | 5 8 1    |
| Australia ..          | 7 4 7    | 7 7 9    | 7 13 2   | 7 18 6   | 7 12 5   |

6. New Vehicles Registered.—(i) Year 1941-42. The following table gives the number of new vehicles registered in each State during 1941-42 :—

### NEW MOTOR VEHICLES REGISTERED, 1941-42.

(Excludes Defence Service Vehicles.)

| State or Territory.                  | Motor Cars. | Commercial Vehicles, etc. | Motor Cycles. | Total. |
|--------------------------------------|-------------|---------------------------|---------------|--------|
|                                      | No.         | No.                       | No.           | No.    |
| New South Wales .. .. .              | 1,432       | 1,747                     | 352           | 3,531  |
| Victoria .. .. .                     | 1,244       | (a) 1,590                 | 270           | 3,104  |
| Queensland .. .. .                   | 421         | 841                       | 81            | 1,343  |
| South Australia(b) .. .. .           | 495         | 486                       | 124           | 1,105  |
| Western Australia .. .. .            | 277         | 364                       | 79            | 720    |
| Tasmania .. .. .                     | 127         | 156                       | 13            | 296    |
| Australian Capital Territory .. .. . | 9           | 4                         | 4             | 17     |
| Total .. .. .                        | 4,005       | 5,188                     | 923           | 10,116 |

(a) Includes vehicles registered as primary producers'.

(b) Excludes Northern Territory.

Particulars of the number of new vehicles registered during 1942-43 will be found in the Appendix to this volume.

(ii) *Quinquennium* 1937-38 to 1941-42. Particulars of the number of new vehicles registered in Australia during the years 1937-38 to 1941-42 are shown in the following table :—

### NEW MOTOR VEHICLES REGISTERED : AUSTRALIA.(a)

(Excludes Defence Service Vehicles.)

| Year.           | Motor Cars. | Commercial Vehicles, etc.<br>(b) | Motor Cycles. | Total. |
|-----------------|-------------|----------------------------------|---------------|--------|
|                 | No.         | No.                              | No.           | No.    |
| 1937-38 .. .. . | 55,125      | 27,402                           | 8,323         | 90,850 |
| 1938-39 .. .. . | 54,107      | 24,927                           | 7,370         | 86,404 |
| 1939-40 .. .. . | 40,325      | 19,724                           | 4,517         | 64,566 |
| 1940-41 .. .. . | 17,765      | 10,168                           | 2,589         | 30,522 |
| 1941-42 .. .. . | 4,005       | 5,188                            | 923           | 10,116 |

(a) Excludes Northern Territory ; also extra-Metropolitan area of Western Australia prior to 1938-39.

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

## E. TRAFFIC ACCIDENTS.

1. *General*.—The practice of reporting accidents occurring in public thoroughfares is not uniform throughout Australia. In New South Wales the reporting of minor accidents has not been enforced, while all other States require that all accidents be reported. Hence the figures for New South Wales are not comparable with those for other States with regard to the number of accidents, and to a lesser extent with regard to the number of persons injured.

2. Total Accidents Registered.—(i) Year 1941-42. The following table gives particulars of the number of persons killed or injured in accidents (known to the police) which occurred in public thoroughfares during 1941-42 :—

**ACCIDENTS (KNOWN TO THE POLICE) WHICH OCCURRED IN PUBLIC THOROUGHFARES : PERSONS KILLED AND INJURED, 1941-42.**

| State or Territory. | Accidents. | Persons Killed. |                               |                                    | Persons Injured. |                               |                                    |
|---------------------|------------|-----------------|-------------------------------|------------------------------------|------------------|-------------------------------|------------------------------------|
|                     |            | Number.         | Per 1,000 of Mean Population. | Per 100 Motor Vehicles Registered. | Number.          | Per 1,000 of Mean Population. | Per 100 Motor Vehicles Registered. |
| New South Wales     | 7,773      | 473             | 0.17                          | 0.18                               | 5,548            | 1.97                          | 2.14                               |
| Victoria ..         | 11,055     | 396             | 0.20                          | 0.18                               | 5,836            | 2.99                          | 2.59                               |
| Queensland ..       | 5,861      | 137             | 0.13                          | 0.13                               | 2,657            | 2.57                          | 2.43                               |
| South Australia ..  | 7,582      | 127             | 0.21                          | 0.16                               | 2,163            | 3.57                          | 2.80                               |
| Western Australia   | 2,984      | 122             | 0.26                          | 0.22                               | 562              | 1.20                          | 1.03                               |
| Tasmania ..         | 2,641      | 35              | 0.15                          | 0.16                               | 730              | 3.05                          | 3.34                               |
| Aus. Cap. Territory | 33         | ..              | ..                            | ..                                 | 33               | 2.63                          | 1.73                               |
| Total ..            | 37,929     | 1,290           | 0.18                          | 0.17                               | 17,529           | 2.46                          | 2.34                               |

The ages of the persons killed or injured are given below :—

**AGES OF PERSONS KILLED OR INJURED, 1941-42.**

| State or Territory. | Under 10 years. |          | 10 to 59 years. |          | 60 years and over. |          | Age not known. |          | Total.  |          |     |    |
|---------------------|-----------------|----------|-----------------|----------|--------------------|----------|----------------|----------|---------|----------|-----|----|
|                     | Killed.         | Injured. | Killed.         | Injured. | Killed.            | Injured. | Killed.        | Injured. | Killed. | Injured. |     |    |
| New S. Wales        | (a)             | (a)      | (a)             | (a)      | (a)                | (a)      | (a)            | (a)      | 473     | 5,548    |     |    |
| Victoria ..         | 27              | 439      | 271             | 4,502    | 85                 | 608      | 13             | 287      | 396     | 5,836    |     |    |
| Queensland ..       | (b)             | 12       | (b)             | 400      | (c)                | 94       | 1,995          | 31       | 253     | ..       | 9   |    |
| South Aust. ..      | 12              | 146      | 88              | 1,859    | 27                 | 158      | ..             | ..       | 127     | 2,163    |     |    |
| Western Aust.       | (d)             | 13       | (d)             | 91       | (e)                | 9        | (e)            | 434      | (f)     | 19       | (f) | 37 |
| Tasmania ..         | 70              |          | (g) 640         |          | (f) 55             |          | ..             | ..       | 35      | 730      |     |    |
| Aus. Cap. Terr.     | ..              |          | ..              |          | 33                 | ..       |                | ..       | ..      | 33       |     |    |
| Total ..            | (h) 1,210       |          | (h) 10,006      |          | (h) 1,273          |          | (h) 13 (h) 296 |          | 1,290   | 17,529   |     |    |

(a) Not available. (b) Under 15. (c) Fifteen to 59. (d) Under 16. (e) Sixteen to 60. (f) Over 60. (g) Ten to 60. (h) Incomplete.

(ii) Years 1933-34 to 1941-42. Approximate figures relating to the persons killed and injured in traffic accidents in Australia during the years 1933-34 to 1941-42 are given hereunder :—

**ACCIDENTS (KNOWN TO THE POLICE) WHICH OCCURRED IN PUBLIC THOROUGHFARES : PERSONS KILLED AND INJURED, AUSTRALIA.(a)**

| Particulars.      | 1933-34. | 1934-35. | 1935-36. | 1936-37. | 1937-38. | 1938-39. | 1939-40. | 1940-41. | 1941-42. |
|-------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Persons killed .. | 912      | 1,104    | 1,356    | 1,391    | 1,483    | 1,426    | 1,560    | 1,298    | 1,290    |
| „ injured ..      | 17,536   | 19,189   | 22,126   | 22,940   | 25,097   | 25,653   | 26,142   | 23,340   | 17,529   |

(a) Prior to 1935 figures were compiled by three States for the calendar year, and by one State for the years 1935 and 1936.

For further particulars of Traffic Accidents see *Transport and Communication Bulletin* No. 33.

# F. 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. **Civil Aviation Administration.**—A brief account of the foundation and objects of this Administration will be found in Official Year Book No. 19, p. 299. In 1936 the organization was changed and the responsibility of regulating and controlling civil aviation in Australia was entrusted to a Board, consisting of four members and a secretary. The Board was responsible to the Minister for Defence and continued to function as a unit of the Defence Department organization until November, 1938. In January, 1939, the Civil Aviation Board was abolished and the Civil Aviation Administration was made a separate Department under the Minister for Civil Aviation. The permanent Head of the Department is the Director-General of Civil Aviation.

3. **Air Services.**—Owing to the Censorship provisions the detailed paragraphs previously shown dealing with the services are omitted.

4. **Statistical Summary.**—The collection and compilation of aircraft statistics were undertaken by this Bureau on 1st July, 1922. The following table gives a summary of operations for the five years ended 30th June, 1942. Figures shown exclude, as far as possible, the operations of aircraft chartered for Defence purposes.

CIVIL AVIATION IN AUSTRALIA : SUMMARY.

| Particulars.                                       | 1937-38. | 1938-39. | 1939-40.  | 1940-41. | 1941-42. |
|--|----------|----------|-----------|----------|----------|
| Registered aircraft owners                         |          |          |           |          |          |
| (a) .. .. . No.                                    | 139      | 149      | 137       | 120      | 119      |
| Registered aircraft(a) ..                          | 286      | 296      | 288       | 202      | 192      |
| Licensed pilots—(a)                                |          |          |           |          |          |
| Private .. .. .                                    | 937      | 1,096    | (b) 1,225 | 502      | 240      |
| Commercial .. ..                                   | 323      | 346      | (b) 324   | 187      | 181      |
| Licensed navigators(a) ..                          | 47       | 59       | (b) 85    | 76       | 54       |
| Licensed aircraft radio telegraph operators(a) No. | 23       | 75       | (b) 91    | 58       | 60       |
| Licensed aircraft radio telephone operators(a) No. | 5        | ..       | ..        | 38       | 38       |
| Licensed ground engineers (a) .. .. . No.          | 437      | 525      | (b) 651   | 617      | 717      |
| Aerodromes—(a)                                     |          |          |           |          |          |
| Government .. ..                                   | 74       | 71       | 73        | 79       | 72       |
| Public .. .. .                                     | 197      | 213      | 224       | 212      | 207      |
| Government emergency grounds .. .. . No.           | 153      | 147      | 141       | 116      | 116      |
| Hours flown .. ..                                  | 113,647  | 121,935  | 120,133   | 79,164   | 69,302   |
| Approx. mileage miles '000                         | 12,292   | 14,099   | 12,823    | 9,700    | 8,925    |
| Passengers carried—                                |          |          |           |          |          |
| Paying .. .. . No.                                 | 133,408  | 123,566  | 121,700   | 145,666  | 149,791  |
| Non-paying .. ..                                   | 25,495   | 24,353   | 21,097    | 8,593    | 5,422    |
| Total .. .. . No.                                  | 158,903  | 147,919  | 142,797   | 154,259  | 155,213  |
| Freight carried .. lb. '000                        | 1,169    | 1,735    | 1,771     | 2,115    | 2,588    |
| Mails, .. .. .                                     | 227      | (c) 739  | (c) 416   | (c) 547  | (c) 879  |
| Accidents—   |          |          |           |          |          |
| Persons—killed No.                                 | 10       | 38       | 11        | 3        | 18       |
| injured .. ..                                      | 4        | 15       | 6         | 1        | 3        |

(a) At 30th June.  
of oversea mail.

(b) Includes licences issued for New Guinea.

(c) Includes gross weight

Preliminary figures relating to the operations of civil aircraft in Australia during 1942-43 will be found in the Appendix to this volume.

5. *New Guinea Activities.*—Previous issues show particulars of the development of civil aviation in New Guinea, and of the companies operating these at the outbreak of war with Japan.

The following table gives a summary of operations for the five years ended 30th June, 1942.

CIVIL AVIATION IN TERRITORY OF NEW GUINEA: SUMMARY.

| Particulars.                                  | 1937-38. | 1938-39. | 1939-40. | 1940-41. | 1941-42.  |
|---|----------|----------|----------|----------|-----------|
| Registered aircraft owners                    |          |          |          |          |           |
| (a) .. .. . No.                               | 10       | 10       | 9        | 11       | 1         |
| Registered aircraft(a) ..                     | 40       | 47       | 43       | 41       | 3         |
| Licensed pilots—(a)                           |          |          |          |          |           |
| Private .. .. .                               | 12       | 13       | (b)      | 5        | ..        |
| Commercial .. ..                              | 24       | 23       | (b)      | 16       | ..        |
| Licensed navigators(a) ..                     | 2        | 3        | (b)      | 4        | ..        |
| Licensed aircraft radio operators .. .. . No. | ..       | 1        | 1        | 2        | ..        |
| Licensed ground engineers                     |          |          |          |          |           |
| (a) .. .. . No.                               | 37       | 46       | (b)      | 37       | 6         |
| Aerodromes—(a)                                |          |          |          |          |           |
| Government .. ..                              | 21       | 24       | 30       | 40       | ..        |
| Public .. .. .                                | 19       | 19       | 23       | 18       | ..        |
| Government emergency landing grounds No.      | 6        | 11       | 13       | 17       | ..        |
| Hours flown .. .. .                           | 15,445   | 15,626   | 13,814   | 11,965   | (c) 2,508 |
| Approx. mileage miles '000,                   | 1,560    | 1,456    | 1,254    | 1,095    | (c) 216   |
| Passengers carried—                           |          |          |          |          |           |
| Paying .. .. . No.                            | 12,247   | 12,909   | 15,433   | 12,995   | (c) 2,919 |
| Non-paying .. ..                              | 1,017    | 1,569    | 1,551    | 993      | (c) 194   |
| Total .. .. .                                 | 13,264   | 14,478   | 16,984   | 13,988   | (c) 3,113 |
| Freight carried lb. '000,                     | 25,574   | 27,064   | 23,500   | 19,855   | (c) 4,124 |
| Mails, .. .. .                                | 167      | 163      | 147      | 101      | (c) 21    |
| Accidents—                                    |          |          |          |          |           |
| Persons—killed No.                            | 1        | ..       | 8        | 2        | ..        |
| injured .. .. .                               | 1        | 1        | 1        | 1        | ..        |

(a) At 30th June.  
available.

(b) Not available.

(c) First quarter only. Further particulars not

## G. POSTS, TELEGRAPHS AND TELEPHONES.

### § 1. General.

1. *The Commonwealth Postal Department.*—Under the provisions of the Commonwealth Post and Telegraph Act 1901, the Commonwealth Postal 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) in each State and in Australia at 30th June, 1942. 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. The returns given for South Australia in this and all succeeding tables include those for the Northern Territory, and the returns for the Australian Capital Territory are included in those for New South Wales.

**POSTAL FACILITIES : RELATION TO AREA AND POPULATION,  
AT 30th JUNE, 1942.**

| State.   | N.S.W. | Vic.  | Q'land. | S.A.  | W.A.  | Tas. | Aust. |
|--|--------|-------|---------|-------|-------|------|-------|
| Number of post offices (a) ..                                  | 2,519  | 2,560 | 1,236   | 794   | 616   | 510  | 8,235 |
| Number of square miles of territory to each office in State .. | 123    | 34    | 542     | 1,138 | 1,584 | 51   | 361   |
| Number of inhabitants to each office                           | 1,127  | 769   | 840     | 776   | 764   | 470  | 871   |
| Number of inhabitants per 100 square miles .. .. .             | 915    | 2,240 | 155     | 68    | 48    | 915  | 241   |

(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 in each State for the years 1912, 1922, 1932, and 1942 :—

**NUMBER OF POST OFFICES.**

| State.               | At 31st December—           |                   | At 30th June—               |                   |                             |                   |                             |                   |
|----------------------|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|
|                      | 1912.                       |                   | 1922.                       |                   | 1932.                       |                   | 1942.                       |                   |
|                      | Official and Semi-Official. | Non-Official. (a) | Official and Semi-Official. | Non-Official. (a) | Official and Semi-Official. | Non-Official. (a) | Official and Semi-Official. | Non-Official. (a) |
| New South Wales ..   | 508                         | 2,051             | 459                         | 2,129             | 438                         | 1,990             | 464                         | 2,055             |
| Victoria ..          | 293                         | 2,281             | 270                         | 2,306             | 278                         | 2,270             | 301                         | 2,259             |
| Queensland ..        | 214                         | 1,149             | 211                         | 1,030             | 199                         | 995               | 202                         | 1,034             |
| South Australia ..   | 162                         | 601               | 139                         | 666               | 146                         | 617               | 152                         | 642               |
| Western Australia .. | 160                         | 360               | 131                         | 537               | 124                         | 436               | 131                         | 485               |
| Tasmania ..          | 57                          | 389               | 47                          | 456               | 43                          | 468               | 48                          | 462               |
| <b>Australia ..</b>  | <b>1,394</b>                | <b>6,831</b>      | <b>1,257</b>                | <b>7,124</b>      | <b>1,228</b>                | <b>6,776</b>      | <b>1,298</b>                | <b>6,937</b>      |

(a) Includes offices previously designated as "Allowance" and "Receiving" Offices.

(iii) *Employees and Mail Contractors.* The number of employees and mail contractors in the Central Office and in each of the States at specified dates is given in the following table :—

**POSTAL EMPLOYEES AND MAIL CONTRACTORS.**

| State.               | At 31st December— |                           | At 30th June—   |                           |                 |                           |                 |                           |
|----------------------|-------------------|---------------------------|-----------------|---------------------------|-----------------|---------------------------|-----------------|---------------------------|
|                      | 1912.             |                           | 1922.           |                           | 1932.           |                           | 1942.           |                           |
|                      | Em-<br>ployees.   | Mail<br>Con-<br>tractors. | Em-<br>ployees. | Mail<br>Con-<br>tractors. | Em-<br>ployees. | Mail<br>Con-<br>tractors. | Em-<br>ployees. | Mail<br>Con-<br>tractors. |
| Central Office ..    | (a)               | ..                        | 87              | ..                        | 175             | ..                        | 491             | ..                        |
| New South Wales ..   | 12,614            | 1,798                     | 12,451          | 2,087                     | 12,357          | 2,010                     | 19,795          | 2,375                     |
| Victoria ..          | 7,845             | 1,060                     | 8,553           | 1,095                     | 9,490           | 1,103                     | 16,028          | 1,641                     |
| Queensland ..        | 3,942             | 768                       | 4,792           | 766                       | 4,818           | 832                       | 7,506           | 1,423                     |
| South Australia ..   | 2,173             | 364                       | 2,895           | 441                       | 3,252           | 242                       | 4,952           | 538                       |
| Western Australia .. | 2,246             | 251                       | 2,200           | 338                       | 2,564           | 309                       | 3,932           | 426                       |
| Tasmania ..          | 1,094             | 217                       | 1,229           | 236                       | 1,398           | 238                       | 1,862           | 218                       |
| <b>Australia ..</b>  | <b>29,914</b>     | <b>4,458</b>              | <b>32,207</b>   | <b>4,963</b>              | <b>34,054</b>   | <b>4,734</b>              | <b>54,566</b>   | <b>6,621</b>              |

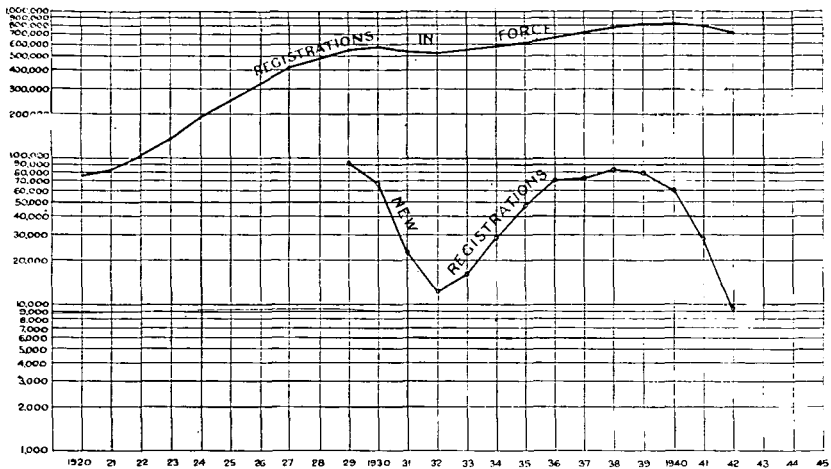
(a) Included in Victorian Staff.

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

POSTMASTER-GENERAL'S DEPARTMENT : GROSS REVENUE.

| Branch and Year.          | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tas.   | Australia. |
|---------------------------|--------|-----------|---------|----------|----------|--------|------------|
| Postal—                   | £'000. | £'000.    | £'000.  | £'000.   | £'000.   | £'000. | £'000.     |
| 1937-38 ..                | 2,992  | 2,010     | 1,039   | 550      | 491      | 208    | 7,290      |
| 1938-39 ..                | 3,048  | 2,042     | 1,067   | 552      | 502      | 211    | 7,422      |
| 1939-40 ..                | 3,025  | 2,082     | 1,078   | 564      | 489      | 207    | 7,445      |
| 1940-41 ..                | 3,350  | 2,274     | 1,090   | 595      | 497      | 206    | 8,012      |
| 1941-42 ..                | 3,794  | 2,753     | 1,322   | 768      | 588      | 250    | 9,475      |
| Telegraph—                |        |           |         |          |          |        |            |
| 1937-38 ..                | 508    | 342       | 231     | 117      | 143      | 37     | 1,378      |
| 1938-39 ..                | 502    | 341       | 234     | 118      | 139      | 38     | 1,372      |
| 1939-40 ..                | 511    | 367       | 236     | 117      | 136      | 34     | 1,401      |
| 1940-41 ..                | 551    | 409       | 233     | 120      | 137      | 32     | 1,482      |
| 1941-42 ..                | 676    | 492       | 308     | 157      | 163      | 33     | 1,829      |
| Wireless—                 |        |           |         |          |          |        |            |
| 1937-38 ..                | 185    | 156       | 52      | 51       | 33       | 16     | 493        |
| 1938-39 ..                | 198    | 152       | 59      | 53       | 36       | 18     | 516        |
| 1939-40 ..                | 207    | 161       | 67      | 56       | 39       | 19     | 549        |
| 1940-41 ..                | 269    | 199       | 89      | 70       | 47       | 24     | 698        |
| 1941-42 ..                | 252    | 157       | 85      | 70       | 47       | 24     | 635        |
| Telephone—                |        |           |         |          |          |        |            |
| 1937-38 ..                | 3,083  | 2,192     | 1,024   | 669      | 415      | 189    | 7,572      |
| 1938-39 ..                | 3,261  | 2,352     | 1,098   | 696      | 431      | 202    | 8,040      |
| 1939-40 ..                | 3,443  | 2,487     | 1,137   | 740      | 453      | 223    | 8,483      |
| 1940-41 ..                | 3,609  | 2,648     | 1,169   | 748      | 468      | 226    | 8,868      |
| 1941-42 ..                | 3,914  | 2,919     | 1,274   | 829      | 503      | 248    | 9,687      |
| All Branches—             |        |           |         |          |          |        |            |
| 1937-38 ..                | 6,768  | 4,700     | 2,346   | 1,387    | 1,082    | 450    | 16,733     |
| 1938-39 ..                | 7,009  | 4,887     | 2,458   | 1,419    | 1,108    | 469    | 17,350     |
| 1939-40 ..                | 7,186  | 5,097     | 2,518   | 1,477    | 1,117    | 483    | 17,878     |
| 1940-41 ..                | 7,779  | 5,530     | 2,580   | 1,534    | 1,150    | 487    | 19,060     |
| 1941-42 ..                | 8,637  | 6,321     | 2,989   | 1,824    | 1,300    | 555    | 21,626     |
| Total revenue per capita— | £      | £         | £       | £        | £        | £      | £          |
| 1937-38 ..                | 2.48   | 2.52      | 2.34    | 2.32     | 2.35     | 1.92   | 2.43       |
| 1938-39 ..                | 2.55   | 2.61      | 2.44    | 2.36     | 2.40     | 1.98   | 2.50       |
| 1939-40 ..                | 2.59   | 2.70      | 2.47    | 2.45     | 2.40     | 2.02   | 2.56       |
| 1940-41 ..                | 2.78   | 2.88      | 2.50    | 2.53     | 2.46     | 2.03   | 2.70       |
| 1941-42 ..                | 3.06   | 3.23      | 2.89    | 2.97     | 2.77     | 2.32   | 3.03       |

MOTOR VEHICLE REGISTRATION—AUSTRALIA, 1920 TO 1942.

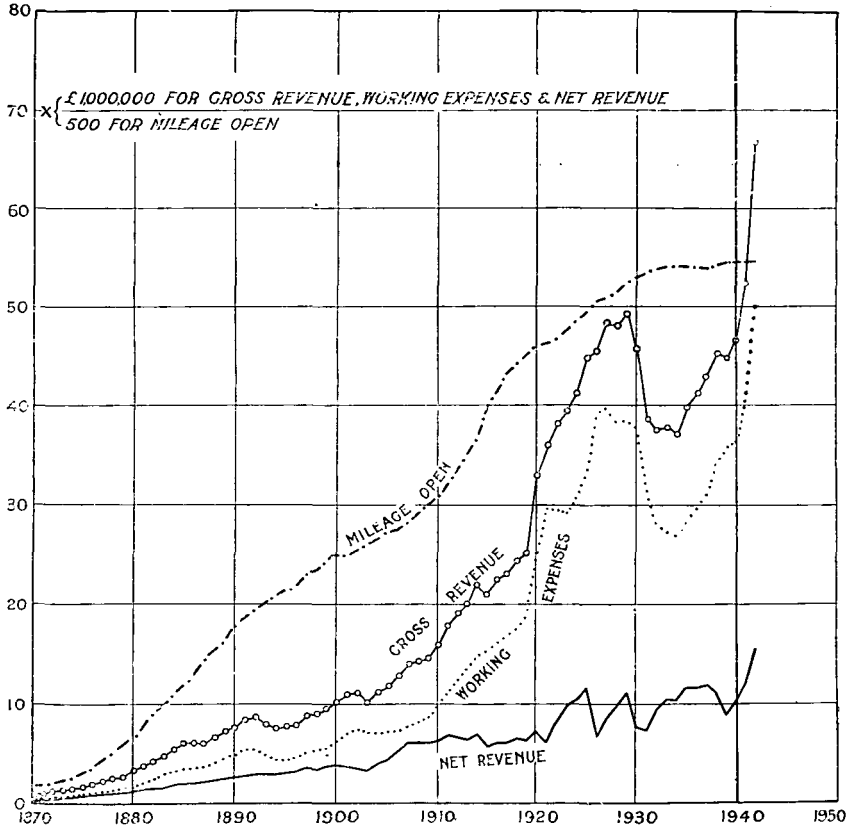


(See page 129.)

EXPLANATION.—This is a ratio graph, the vertical scale being logarithmic, and the curves rise and fall according to the rate of increase or decrease. Actual numbers are indicated by the scale at the side of the graph.

The graphs show for all motor vehicles other than motor cycles the registrations in force at 30th June each year and the number of new registrations during the year.

## FINANCIAL POSITION OF THE GOVERNMENT RAILWAYS OF AUSTRALIA, 1870 TO 1942.



EXPLANATION.—The base of each square represents throughout ten years. The significance of the vertical height of each square varies according to the nature of the several curves.

In the curves for (i) gross revenue; (ii) working expenses; and (iii) net revenue, the vertical side of each square represents £10,000,000. The mileage open is shown by a broken line, the vertical side of each square representing 5,000 miles.

Compared with the corresponding figures for the previous year, an increase of 13.4 per cent. is shown in the gross revenue earned for the year 1941-42. Increases in the several branches were as follows:—Postal 18.3 per cent., Telegraph 23.3 per cent., and Telephone 9.2 per cent. The Wireless Branch showed a decrease of 9.0 per cent.

4. **Expenditure, Postmaster-General's Department.**—(i) *Distribution.* The following table shows, as far as possible, the distribution of actual expenditure on various items in each State during the year ended 30th June, 1942. 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 DEPT. : DISTRIBUTION OF EXPENDITURE, 1941-42.**

| Particulars.   | Central<br>Office.   | N.S.W.           | Victoria.        | Q'land.          | S. Aust.         | W. Aust.         | Tas.           | Australia.        |
|--|----------------------|------------------|------------------|------------------|------------------|------------------|----------------|-------------------|
|  | £                    | £                | £                | £                | £                | £                | £              | £                 |
| <b>Expenditure from Ordinary Votes—</b>              |                      |                  |                  |                  |                  |                  |                |                   |
| Salaries and payments in the nature of salary ..     | 64,491               | 2,589,842        | 1,837,095        | 963,728          | 636,650          | 459,306          | 223,583        | 6,774,695         |
| General expenses ..                                  | 3,479                | 209,257          | 151,212          | 50,696           | 53,408           | 31,106           | 12,190         | 511,348           |
| Stores and material ..                               | 2,181                | 89,037           | 69,542           | 40,038           | 25,899           | 18,744           | 6,971          | 252,412           |
| Mail services ..                                     | a 782,598            | 453,767          | 296,677          | 227,628          | 85,260           | 89,340           | 40,993         | 1,976,263         |
| Engineering services (other than New Works) ..       | 86,138               | 1,561,953        | 1,115,140        | 532,795          | 300,196          | 283,200          | 148,216        | 4,027,638         |
| Other services ..                                    | 60,662               | ..               | ..               | ..               | ..               | ..               | ..             | 60,662            |
| <b>Total ..</b>                                      | <b>999,549</b>       | <b>4,903,856</b> | <b>3,469,666</b> | <b>1,814,885</b> | <b>1,101,413</b> | <b>881,696</b>   | <b>431,953</b> | <b>13,603,018</b> |
| <b>Pensions and retiring allowances ..</b>           | <b>..</b>            | <b>15,153</b>    | <b>18,917</b>    | <b>..</b>        | <b>..</b>        | <b>22,518</b>    | <b>..</b>      | <b>56,588</b>     |
| <b>Rent, repairs, maintenance, fittings, etc. ..</b> | <b>..</b>            | <b>36,287</b>    | <b>43,660</b>    | <b>20,252</b>    | <b>7,153</b>     | <b>8,040</b>     | <b>2,790</b>   | <b>118,182</b>    |
| <b>Proportion of audit expenses ..</b>               | <b>..</b>            | <b>5,188</b>     | <b>3,577</b>     | <b>1,913</b>     | <b>1,126</b>     | <b>864</b>       | <b>432</b>     | <b>13,100</b>     |
| <b>New Works(b)—</b>                                 |                      |                  |                  |                  |                  |                  |                |                   |
| Telegraph, telephone and wireless ..                 | 1,384                | 1,039,415        | 765,800          | 319,941          | 152,000          | 110,500          | 56,304         | 2,445,344         |
| New Buildings, etc. ..                               | ..                   | 277,191          | 75,897           | 63,876           | 84,650           | 19,507           | 6,669          | 527,790           |
| Other expenditure not allocated to States (c)        | 3,736,977            | ..               | ..               | ..               | ..               | ..               | ..             | 3,736,977         |
| <b>Grand Total ..</b>                                | <b>4,737,910 (d)</b> | <b>6,277,090</b> | <b>4,377,517</b> | <b>2,220,867</b> | <b>1,346,342</b> | <b>1,043,125</b> | <b>498,148</b> | <b>20,500,999</b> |

(a) Expenditure on air-mail services, etc. of apportionment to States not available.

(b) Includes expenditure from loan.

(c) Particulars

(d) Includes expenditure not apportioned to States.

(ii) *Total, 1937-38 to 1941-42.* The next table gives the actual payments made, as shown by records kept for Treasury purposes in respect of the Postmaster-General's Department, for each of the last five years :—

**POSTMASTER-GENERAL'S DEPARTMENT : EXPENDITURE.**

| —                           | 1937-38.          | 1938-39.          | 1939-40.          | 1940-41.          | 1941-42.          |
|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                             | £                 | £                 | £                 | £                 | £                 |
| <b>Total Expenditure ..</b> | <b>17,135,560</b> | <b>18,873,934</b> | <b>18,475,805</b> | <b>19,116,132</b> | <b>20,500,999</b> |

The total expenditure increased by 7.2 per cent. during 1941-42.

5. Profit or Loss, Postmaster-General's Department.—(i) *States, 1941-42.* The foregoing statement of gross revenue and expenditure represents 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, depreciation and interest charges, including exchange, were as follows :—

POSTMASTER-GENERAL'S DEPARTMENT : PROFIT OR LOSS, 1941-42.

| Branch.         | Profit or Loss.  | N.S.W.          | Victoria.       | Q'land.       | S. Aust.      | W.Aust.       | Tas.         | Australia.      |
|-----------------|------------------|-----------------|-----------------|---------------|---------------|---------------|--------------|-----------------|
|                 |                  | £               | £               | £             | £             | £             | £            | £               |
| Postal ..       | { Profit<br>Loss | 1,123,455<br>.. | 915,793<br>..   | 436,568<br>.. | 234,454<br>.. | 140,579<br>.. | 65,494<br>.. | 2,916,343<br>.. |
| Telegraph ..    | { Profit<br>Loss | 162,888<br>..   | 165,998<br>..   | 47,394<br>..  | ..<br>2,876   | 30,334<br>..  | 267<br>..    | 404,005<br>..   |
| Wireless ..     | { Profit<br>Loss | 23,979<br>..    | 20,268<br>..    | 5,138<br>..   | 29,078<br>..  | ..<br>13,222  | ..<br>6,764  | 58,477<br>..    |
| Telephone ..    | { Profit<br>Loss | 1,046,494<br>.. | 735,360<br>..   | 213,789<br>.. | 140,161<br>.. | 19,470<br>..  | ..<br>15,306 | 2,139,968<br>.. |
| All Branches .. | { Profit<br>Loss | 2,356,816<br>.. | 1,837,419<br>.. | 702,889<br>.. | 400,817<br>.. | 177,161<br>.. | 43,691<br>.. | 5,518,793<br>.. |

After providing for depreciation, pensions and retiring allowances and interest on capital, the year 1941-42 closed with a surplus of £5,518,793. For the preceding year a surplus of £4,067,746 was shown.

(ii) *Branches, 1937-38 to 1941-42.* The following statement gives particulars of the operating results of each branch for the period 1937-38 to 1941-42 :—

POSTMASTER-GENERAL'S DEPARTMENT : PROFIT OR LOSS, BRANCHES.

| Year.        | Branch Profits— |            |           |            |               |
|--------------|-----------------|------------|-----------|------------|---------------|
|              | Postal.         | Telegraph. | Wireless. | Telephona. | All Branches. |
|              | £               | £          | £         | £          | £             |
| 1937-38.. .. | 2,094,561       | 73,020     | 82,211    | 1,283,684  | 3,533,476     |
| 1938-39.. .. | 2,105,208       | 51,617     | 76,054    | 1,392,492  | 3,625,371     |
| 1939-40.. .. | 1,998,145       | 108,283    | 13,256    | 1,638,881  | 3,758,565     |
| 1940-41.. .. | 2,174,737       | 104,797    | 113,301   | 1,674,911  | 4,067,746     |
| 1941-42.. .. | 2,916,343       | 404,005    | 58,477    | 2,139,968  | 5,518,793     |

6. Capital Account.—The appended statement shows particulars of the fixed assets of the Postmaster-General's Department from 1st July, 1941, to 30th June, 1942 :—

**POSTMASTER-GENERAL'S DEPARTMENT : FIXED ASSETS.**

| Particulars.  | Net Value,<br>1st July,<br>1941. | Capital<br>Expenditure<br>1941-42. | Gross Value,<br>30th June,<br>1942. | Less<br>Deprecia-<br>tion, &c.<br>1941-42.<br>(a) | Net Value,<br>30th June,<br>1942. |
|---|----------------------------------|------------------------------------|-------------------------------------|---|-----------------------------------|
|   | £                                | £                                  | £                                   | £   | £                                 |
| Telephone service plant (ex-<br>cluding trunk lines) ..                         | 44,174,851                       | 2,747,693                          | 46,922,544                          | 809,909   | 46,112,635                        |
| Trunk and telegraph service<br>plant (aerial wires,<br>conduits, and cables) .. | 13,356,358                       | 419,995                            | 13,776,353                          | 88,380  | 13,687,973                        |
| Telegraph service plant ..  | 493,509                          | 49,321                             | 547,830                             | 13,149  | 534,681                           |
| Postal service plant ..   | 456,140                          | 39,386                             | 495,526                             | 1,924   | 493,602                           |
| Wireless service plant ..   | 593,172                          | 30,844                             | 624,016                             | 4,680   | 619,336                           |
| Sites, buildings, furniture<br>and office equipment ..                          | 11,350,636                       | 482,006                            | 11,832,642                          | 61,332  | 11,771,310                        |
| Miscellaneous plant ..  | 1,050,271                        | 75,976                             | 1,126,247                           | 44,441  | 1,081,806                         |
| <b>Total ..</b>   | <b>71,479,937</b>                | <b>3,845,221</b>                   | <b>75,325,158</b>                   | <b>1,023,815</b>                                  | <b>74,301,343</b>                 |

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

During the past quinquennium the value of the fixed assets has increased by 27.1 per cent., the net value at 30th June, 1937, being £58,481,814.

**§ 2. Posts.**

1. Postal Matters Dealt With.—(i) *Australia.* The following table gives a summary of the postal matter dealt with in Australia during the five years 1937-38 to 1941-42. Although mail matter posted in Australia for delivery therein is necessarily handled at least twice, only the number dispatched are included in the following table, which consequently gives the number of distinct articles handled :—

**POSTAL MATTER DEALT WITH : AUSTRALIA.**

| Year. | Letters, Postcards,<br>Letter-cards and<br>Packets. |                                     | Newspapers.                  |                                     | Parcels.                     |  | Registered<br>Articles other<br>than Parcels. |  |
|-------|---|-------------------------------------|------------------------------|-------------------------------------|------------------------------|--|---|--|
|       | Number<br>(‘000<br>omitted).                        | Per<br>1,000 of<br>Popula-<br>tion. | Number<br>(‘000<br>omitted). | Per<br>1,000 of<br>Popula-<br>tion. | Number<br>(‘000<br>omitted). | Per<br>1,000<br>of<br>Popula-<br>tion. | Number<br>(‘000<br>omitted).                  | Per<br>1,000<br>of<br>Popula-<br>tion. |

**POSTED WITHIN AUSTRALIA FOR DELIVERY THEREIN.**

|            |         |         |         |        |        |       |        |       |
|------------|---------|---------|---------|--------|--------|-------|--------|-------|
| 1937-38 .. | 825,128 | 119,704 | 138,129 | 20,039 | 9,072  | 1,316 | 7,439  | 1,079 |
| 1938-39 .. | 836,243 | 120,717 | 139,635 | 20,157 | 9,056  | 1,307 | 7,474  | 1,079 |
| 1939-40 .. | 834,113 | 119,295 | 138,900 | 19,866 | 9,065  | 1,296 | 7,780  | 1,113 |
| 1940-41 .. | 845,963 | 119,686 | 140,721 | 19,909 | 9,933  | 1,405 | 8,914  | 1,261 |
| 1941-42 .. | 888,882 | 124,541 | 138,285 | 19,375 | 10,993 | 1,540 | 10,618 | 1,488 |

**TOTAL POSTAL MATTER DEALT WITH.**

|            |         |         |         |        |        |       |        |       |
|------------|---------|---------|---------|--------|--------|-------|--------|-------|
| 1937-38 .. | 889,771 | 129,082 | 162,682 | 23,601 | 9,572  | 1,389 | 8,489  | 1,231 |
| 1938-39 .. | 903,090 | 130,367 | 165,362 | 23,871 | 9,585  | 1,384 | 8,371  | 1,208 |
| 1939-40 .. | 881,910 | 126,131 | 157,677 | 22,551 | 9,484  | 1,356 | 8,512  | 1,218 |
| 1940-41 .. | 898,688 | 127,145 | 160,593 | 22,720 | 11,194 | 1,584 | 9,560  | 1,353 |
| 1941-42 .. | 941,816 | 131,957 | 158,059 | 22,146 | 13,075 | 1,832 | 11,118 | 1,558 |

(a) Includes letters, cards and other postal articles enclosed in envelopes and sorted with letters  
(b) Includes postal articles not included in letter mail.

(ii) *States.* The next table shows the postal matter dealt with in each State during the year 1941-42.

**POSTAL MATTER DEALT WITH : STATES 1941-42.(a)**

| State.                                       | Letters, Postcards, Letter-cards and Packets.(b) |                          | Newspapers.(b)         |                          | Parcels.               |                          | Registered Articles other than Parcels. |                          |
|--|--|--------------------------|------------------------|--------------------------|------------------------|--------------------------|---|--------------------------|
|  | Number ('000 omitted).                           | Per 1,000 of Population. | Number ('000 omitted). | Per 1,000 of Population. | Number ('000 omitted). | Per 1,000 of Population. | Number ('000 omitted).                  | Per 1,000 of Population. |
| <b>POSTED FOR DELIVERY WITHIN AUSTRALIA.</b> |  |                          |                        |                          |                        |                          |   |                          |
| New South Wales                              | 369,583  | 130,817                  | 58,343                 | 20,651                   | 4,229                  | 1,497                    | 4,122                                   | 1,459                    |
| Victoria ..                                  | 253,379  | 129,652                  | 35,348                 | 18,087                   | 2,421                  | 1,239                    | 3,130                                   | 1,602                    |
| Queensland ..                                | 111,274  | 107,516                  | 23,386                 | 22,596                   | 2,283                  | 2,206                    | 1,488                                   | 1,438                    |
| South Australia ..                           | 66,425   | 108,034                  | 8,998                  | 14,634                   | 1,186                  | 1,929                    | 826                                     | 1,343                    |
| Western Australia                            | 55,526   | 118,496                  | 7,295                  | 15,568                   | 715                    | 1,526                    | 666                                     | 1,421                    |
| Tasmania ..                                  | 32,695   | 136,577                  | 4,915                  | 20,532                   | 159                    | 664                      | 386                                     | 1,612                    |
| <b>Australia ..</b>                          | <b>888,882</b>                                   | <b>124,541</b>           | <b>138,285</b>         | <b>19,375</b>            | <b>10,993</b>          | <b>1,540</b>             | <b>10,618</b>                           | <b>1,488</b>             |

**POSTED FOR DELIVERY OVERSEAS.**

|                     |               |              |              |              |              |            |            |           |
|---------------------|---------------|--------------|--------------|--------------|--------------|------------|------------|-----------|
| New South Wales     | 13,492        | 4,776        | 3,366        | 1,191        | 756          | 268        | 125        | 44        |
| Victoria ..         | 8,258         | 4,226        | 2,468        | 1,263        | 479          | 245        | 55         | 28        |
| Queensland ..       | 2,195         | 2,121        | 637          | 615          | 164          | 158        | 25         | 24        |
| South Australia ..  | 1,800         | 2,928        | 624          | 1,015        | 131          | 213        | 8          | 13        |
| Western Australia   | 2,633         | 5,619        | 1,782        | 3,803        | 107          | 228        | 15         | 32        |
| Tasmania ..         | 1,180         | 4,929        | 19           | 79           | 44           | 184        | 4          | 17        |
| <b>Australia ..</b> | <b>29,558</b> | <b>4,141</b> | <b>8,896</b> | <b>1,247</b> | <b>1,681</b> | <b>236</b> | <b>232</b> | <b>32</b> |

**RECEIVED FROM OVERSEAS.**

|                     |               |              |               |              |            |           |            |           |
|---------------------|---------------|--------------|---------------|--------------|------------|-----------|------------|-----------|
| New South Wales     | 12,818        | 4,537        | 5,116         | 1,811        | 163        | 58        | 128        | 45        |
| Victoria ..         | 4,668         | 2,389        | 2,092         | 1,070        | 134        | 69        | 80         | 41        |
| Queensland ..       | 2,508         | 2,423        | 877           | 847          | 34         | 33        | 23         | 22        |
| South Australia ..  | 1,743         | 2,835        | 758           | 1,233        | 37         | 60        | 16         | 26        |
| Western Australia   | 1,402         | 2,992        | 1,753         | 3,741        | 24         | 51        | 17         | 36        |
| Tasmania ..         | 237           | 990          | 282           | 1,178        | 9          | 38        | 4          | 17        |
| <b>Australia ..</b> | <b>23,376</b> | <b>3,275</b> | <b>10,878</b> | <b>1,524</b> | <b>401</b> | <b>56</b> | <b>268</b> | <b>38</b> |

(a) See explanation in paragraph 1.—(1).

(b) See notes (a) and (b) to previous table.

2. *Value-Payable Parcel Post.*—(i) *General.* The Postal Department undertakes to deliver registered articles sent by parcel post within Australia, or between Papua or Nauru and Australia, to recover from the addressee on delivery a specified sum of money fixed by the sender, and to remit the sum to the sender by money order, for which the usual commission is charged. 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, also to meet the requirements of traders and others who do not wish their goods to be delivered except on payment.

(ii) *Summary of Business.* The next statement gives particulars regarding the value-payable parcels posted in each State for the years 1937-38 to 1941-42 :—

**VALUE-PAYABLE PARCEL POST : SUMMARY OF BUSINESS.**

| Year.                            | N.S.W.  | Victoria. | Q'land. | S. Aust. | W. Aust. | Tasmania. | Australia. |
|----------------------------------|---------|-----------|---------|----------|----------|-----------|------------|
| <b>NUMBER OF PARCELS POSTED.</b> |         |           |         |          |          |           |            |
|                                  | No.     | No.       | No.     | No.      | No.      | No.       | No.        |
| 1937-38 .. ..                    | 328,459 | 34,681    | 184,080 | 20,592   | 70,719   | 1,168     | 639,699    |
| 1938-39 .. ..                    | 332,419 | 36,000    | 175,376 | 20,596   | 67,852   | 849       | 633,092    |
| 1939-40 .. ..                    | 346,327 | 60,417    | 180,215 | 22,697   | 68,883   | 670       | 679,209    |
| 1940-41 .. ..                    | 361,388 | 103,459   | 186,524 | 23,912   | 59,273   | 866       | 735,422    |
| 1941-42 .. ..                    | 398,459 | 104,828   | 184,843 | 25,014   | 55,746   | 1,090     | 769,980    |
| <b>VALUE COLLECTED.</b>          |         |           |         |          |          |           |            |
|                                  | £       | £         | £       | £        | £        | £         | £          |
| 1937-38 .. ..                    | 395,969 | 48,250    | 232,797 | 24,124   | 78,196   | 1,591     | 780,927    |
| 1938-39 .. ..                    | 405,844 | 50,224    | 226,409 | 22,962   | 76,323   | 1,143     | 782,905    |
| 1939-40 .. ..                    | 417,046 | 88,225    | 232,873 | 27,844   | 72,250   | 831       | 839,069    |
| 1940-41 .. ..                    | 486,927 | 172,183   | 249,323 | 31,893   | 70,017   | 1,411     | 1,011,754  |
| 1941-42 .. ..                    | 515,672 | 180,248   | 262,586 | 37,463   | 68,161   | 2,165     | 1,066,295  |

**REVENUE INCLUDING POSTAGE, COMMISSION ON VALUE, REGISTRATION AND MONEY ORDER COMMISSION.**

|               |        |        |        |       |       |     |         |
|---------------|--------|--------|--------|-------|-------|-----|---------|
|               | £      | £      | £      | £     | £     | £   | £       |
| 1937-38 .. .. | 41,958 | 4,672  | 23,816 | 2,507 | 8,102 | 139 | 81,194  |
| 1938-39 .. .. | 45,097 | 4,867  | 24,881 | 2,587 | 8,207 | 102 | 85,741  |
| 1939-40 .. .. | 45,702 | 8,566  | 24,741 | 2,792 | 7,382 | 76  | 89,259  |
| 1940-41 .. .. | 49,182 | 16,922 | 25,680 | 3,133 | 6,715 | 104 | 101,736 |
| 1941-42 .. .. | 53,027 | 16,591 | 24,961 | 3,628 | 6,480 | 137 | 104,824 |

The number and value of parcels forwarded in New South Wales and Queensland are much higher than in any of the other States, although the system has also found favour in Western Australia. These three States have the largest areas, and consequently more people, at long distances from business centres, avail themselves of the value-payable system. Although South Australia also has a large area, the population of that State is, comparatively, not widely spread.

3. *Sea-borne Mail Services.*—(i) *General.* In earlier issues of this work particulars of sea-borne mail services have been included, but owing to the restrictions of space the insertion of this information terminated with Official Year Book No. 22.

(ii) *Annual Subsidies or Payments.* The following table shows particulars of the annual subsidies or amounts payable by the Postal Department for coastal mail services in accordance with contracts in existence at 30th June, 1942. The frequency of the services concerned was irregular during 1941-42.

**MAIL SUBSIDIES : COASTAL SERVICES, 1941-42.**

| Service.                     | Queensland Ports. | South Australian Ports. | Western Australian Ports. | Tasmanian Ports. |
|------------------------------|-------------------|-------------------------|---------------------------|------------------|
| Annual subsidies or payments | £<br>875          | £<br>5,000              | £<br>5,500                | £<br>54,379      |

4. **Total Cost of Carriage of Mails.**—During 1941-42 the total amount paid for the carriage of mails, as disclosed by the Profit and Loss Account of the Postal Branch, was £1,877,623. Details appear hereunder :—

**CARRIAGE OF MAILS : TOTAL COST, 1941-42.**

| Inland Mails. |          |         | Coastwise<br>Mails. | Overseas Mails. |         | Tasmanian<br>Subsidy. | Total.    |
|---------------|----------|---------|---------------------|-----------------|---------|-----------------------|-----------|
| Road.         | Railway. | Air.    |                     | Sea.            | Air.    |                       |           |
| £             | £        | £       | £                   | £               | £       | £                     | £         |
| 598,750       | 470,859  | 175,605 | 16,669              | 80,080          | 512,947 | 22,713                | 1,877,623 |

5. **Transactions of the Dead Letter Offices.**—The table hereunder shows the number of letters, postcards and letter-cards, and packets and circulars, including Inland, Interstate and International, dealt with by the Dead Letter Offices in 1941-42, and the methods adopted in the disposal thereof :—

**DEAD LETTER OFFICES : TRANSACTIONS, 1941-42.**

| Particulars.  | N.S.W.         | Vic.           | Q'land.        | S. Aust.       | W. Aust.       | Tas.          | Australia.       |
|---|----------------|----------------|----------------|----------------|----------------|---------------|------------------|
| <b>LETTERS, POSTCARDS AND LETTER-CARDS.</b>           |                |                |                |                |                |               |                  |
| Returned to senders or delivered ..                   | No. 787,247    | No. 391,535    | No. 214,913    | No. 119,460    | No. 161,451    | No. 81,144    | No. 1,755,750    |
| Destroyed in accordance with Act ..                   | 86,848         | 49,241         | 18,849         | 19,394         | 6,066          | 6,885         | 187,283          |
| Returned to other States or Countries as unclaimed .. | 40,013         | 17,674         | 8,086          | 2,578          | 5,019          | 2,160         | 75,530           |
| <b>Total ..</b>                                       | <b>914,108</b> | <b>458,450</b> | <b>241,848</b> | <b>141,432</b> | <b>172,536</b> | <b>90,189</b> | <b>2,018,563</b> |

**PACKETS AND CIRCULARS.**

|   |                  |                |                |                |                |                |                  |
|---|------------------|----------------|----------------|----------------|----------------|----------------|------------------|
| Returned to senders or delivered ..                   | 206,690          | 214,795        | 208,833        | 10,509         | 6,445          | 37,290         | 684,562          |
| Destroyed in accordance with Act ..                   | 40,051           | 35,589         | 9,552          | 2,743          | 909            | 4,260          | 93,104           |
| Returned to other States or Countries as unclaimed .. | 3,772            | 1,671          | 172            | 1,158          | 99             | 426            | 7,298            |
| <b>Total ..</b>                                       | <b>250,513</b>   | <b>252,055</b> | <b>218,557</b> | <b>14,410</b>  | <b>7,453</b>   | <b>41,976</b>  | <b>784,964</b>   |
| <b>Grand Total (letters, packets, etc.) ..</b>        | <b>1,164,621</b> | <b>710,505</b> | <b>460,405</b> | <b>155,842</b> | <b>179,989</b> | <b>132,165</b> | <b>2,803,527</b> |

During 1941-42 money and valuables to the amount of £127,316 were found in postal articles sent to the Dead Letter Office.

6. **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. A money order may be issued for payment of sums up to £20 within Australia, and not

exceeding £40 (in some cases £20, and in Mauritius £10) in places abroad. A postal note, which is payable only within Australia and in Papua, cannot be issued for a larger sum than twenty shillings.

(ii) *States, 1941-42.* Particulars regarding the business transactions in each State for 1941-42 are given hereunder :—

**MONEY ORDERS AND POSTAL NOTES : TRANSACTIONS, 1941-42.**

| State.               | Value of<br>Money Orders<br>Issued. | Value of<br>Money Orders<br>Paid. | Net<br>Money Order<br>Commission<br>Received. | Value of<br>Postal Notes<br>Issued. | Poundage<br>Received on<br>Postal Notes. |
|----------------------|-------------------------------------|-----------------------------------|---|-------------------------------------|--|
|                      | £                                   | £                                 | £   | £                                   | £  |
| New South Wales ..   | 10,652,420                          | 10,842,158                        | 51,216  | 3,721,851                           | 79,856                                   |
| Victoria ..          | 4,922,904                           | 5,228,428                         | 22,860  | 2,370,790                           | 54,721                                   |
| Queensland ..        | 4,270,988                           | 4,130,925                         | 18,800  | 1,005,099                           | 21,108                                   |
| South Australia ..   | 1,563,565                           | 1,367,722                         | 7,074   | 583,467                             | 14,148                                   |
| Western Australia .. | 1,955,451                           | 1,971,931                         | 8,838   | 491,968                             | 10,686                                   |
| Tasmania ..          | 802,319                             | 723,719                           | 3,731   | 206,357                             | 4,663                                    |
| <b>Australia ..</b>  | <b>24,167,647</b>                   | <b>24,264,883</b>                 | <b>112,519</b>                                | <b>8,379,532</b>                    | <b>185,182</b>                           |

(iii) *Australia, 1937-38 to 1941-42.* The next table shows the number and value of money orders and postal notes issued and paid in Australia from 1937-38 to 1941-42 :—

**MONEY ORDERS AND POSTAL NOTES : TRANSACTIONS, AUSTRALIA.**

| Year.      | Money Orders. |        |         |        | Postal Notes. |        |         |        |
|------------|---------------|--------|---------|--------|---------------|--------|---------|--------|
|            | Issued.       |        | Paid.   |        | Issued.       |        | Paid.   |        |
|            | Number.       | Value. | Number. | Value. | Number.       | Value. | Number. | Value. |
|            | '000.         | £'000. | '000.   | £'000. | '000.         | £'000. | '000.   | £'000. |
| 1937-38 .. | 3,191         | 17,959 | 3,175   | 17,935 | 21,426        | 7,706  | 21,375  | 7,692  |
| 1938-39 .. | 3,239         | 18,349 | 3,254   | 18,548 | 21,942        | 7,926  | 21,966  | 7,934  |
| 1939-40 .. | 3,325         | 18,865 | 3,247   | 18,858 | 21,724        | 7,896  | 21,688  | 7,888  |
| 1940-41 .. | 3,421         | 20,229 | 3,373   | 20,271 | 21,087        | 7,926  | 21,087  | 7,917  |
| 1941-42 .. | 3,678         | 24,168 | 3,656   | 24,265 | 21,431        | 8,380  | 21,129  | 8,253  |

(iv) *Classification of Money Orders Issued and Paid.* (a) *Money Orders Issued.* The next table shows the number and value of money orders issued during 1941-42, classified according to the country where payable :—

**MONEY ORDERS ISSUED : COUNTRY WHERE PAYABLE, 1941-42.**

| Where Issued.   | Where Payable.  |              |                 |                  | Total.          |
|-----------------|-----------------|--------------|-----------------|------------------|-----------------|
|                 | Australia.      | New Zealand. | United Kingdom. | Other Countries. |                 |
| NUMBER.         |                 |              |                 |                  |                 |
| Australia .. .. | 3,620,716       | 10,851       | 32,410          | 14,070           | 3,678,047       |
| VALUE.          |                 |              |                 |                  |                 |
| Australia .. .. | £<br>24,040,286 | £<br>23,316  | £<br>62,739     | £<br>41,306      | £<br>24,167,647 |

(b) *Money Orders Paid.* The number and value of money orders paid during 1941-42, classified according to the country where issued, are given hereunder:—

**MONEY ORDERS PAID : COUNTRY OF ISSUE, 1941-42.**

| Where Paid.     | Where Issued. |              |                 |                  | Total.       |
|-----------------|---------------|--------------|-----------------|------------------|--------------|
|                 | Australia.    | New Zealand. | United Kingdom. | Other Countries. |              |
| NUMBER.         |               |              |                 |                  |              |
| Australia .. .. | 3,591,056     | 23,089       | 18,193          | 23,231           | 3,655,569    |
| VALUE.          |               |              |                 |                  |              |
| Australia .. .. | £ 24,033,950  | £ 52,019     | £ 82,218        | £ 96,696         | £ 24,264,883 |

In the tables above, 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 1941-42. Particulars regarding the number and value of postal notes issued and paid in each of the last five years have been given previously.

**POSTAL NOTES PAID : STATE OF ISSUE, 1941-42.**

| Issued in—      | Postal Notes Paid in— |              |             |            |             |            |              |
|-----------------|-----------------------|--------------|-------------|------------|-------------|------------|--------------|
|                 | N.S.W.                | Victoria.    | Q'land.     | S. Aust.   | W. Aust.    | Tas.       | Australia.   |
| <b>NUMBER.</b>  |                       |              |             |            |             |            |              |
| Same State ..   | '000. 7,994           | '000. 4,100  | '000. 1,978 | '000. 938  | '000. 1,029 | '000. 412  | '000. 16,451 |
| Other States .. | 912                   | 629          | 528         | 138        | 222         | 2,249      | 4,678        |
| Total ..        | 8,906                 | 4,729        | 2,506       | 1,076      | 1,251       | 2,661      | 21,129       |
| <b>VALUE.</b>   |                       |              |             |            |             |            |              |
| Same State ..   | £'000. 3,269          | £'000. 1,638 | £'000. 802  | £'000. 373 | £'000. 411  | £'000. 151 | £'000. 6,644 |
| Other States .. | 358                   | 275          | 186         | 62         | 52          | 676        | 1,609        |
| Total ..        | 3,627                 | 1,913        | 988         | 435        | 463         | 827        | 8,253        |

The number and value of postal notes paid in Australia during the year showed increases of 0.2 per cent. and 4.3 per cent. respectively on the corresponding figures for 1940-41.

### § 3. Telegraphs.

1. **General.**—A review of the development of the Telegraph Services in Australia appears in Official Year Book No. 15, p. 625. 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. Particulars of these improvements have been shown in previous issues.

2. **Telegraph Offices, Length of Lines and Wire.**—(i) *States.* The following table shows the latest figures available separately for telegraph offices and the length of telegraph lines and of telegraph wire in each State. Where separate figures as at 30th June, 1942, are not available, combined telegraph and telephone figures are shown in § 5, 1 (i) following.

TELEGRAPH OFFICES AND LINES : STATES.

| Particulars.                          | N.S.W. | Victoria. | Q'land. | S. Aust. | W. Aust. | Tas.  | Aust.   |
|---------------------------------------|--------|-----------|---------|----------|----------|-------|---------|
| Number of offices(a) ..               | 3,085  | 2,464     | 1,621   | 851      | 922      | 536   | 9,479   |
| Length of wire (single wire mileage)— |        |           |         |          |          |       |         |
| Telegraph purposes only               | 12,237 | 7,615     | 14,774  | 6,377    | 8,485    | 641   | 50,129  |
| Telegraph and telephone purposes ..   | 63,223 | 19,121    | 37,072  | 13,057   | 10,071   | 1,448 | 143,992 |
| Length of line (single wire mileage)— |        |           |         |          |          |       |         |
| Conductors in Morse cable ..          | 2,792  | 1,417     | 490     | ..       | 181      | 24    | 4,904   |
| Conductors in submarine cable ..      | 4,937  | 422       | 339     | 226      | 193      | 624   | 6,741   |
| Pole routes (miles)(a) ..             | 33,810 | 19,023    | 14,874  | 14,231   | 12,118   | 3,529 | 97,585  |

(a) At 30th June, 1942. Other particulars relate to 30th June, 1940.

At 30th June, 1940, a total length of 194,121 miles of wire was available for telegraph purposes, of which 143,992 miles was also used for telephone purposes.

(ii) *Summary for Australia.* The following table gives corresponding particulars for Australia for the years 1938 to 1942 :—

TELEGRAPH OFFICES AND LINES : AUSTRALIA, AT 30th JUNE.

| Particulars.                          | 1938.   | 1939.   | 1940.   | 1941.  | 1942.  |
|---------------------------------------|---------|---------|---------|--------|--------|
| Number of offices ..                  | 9,359   | 9,389   | 9,450   | 9,484  | 9,479  |
| Length of wire (single wire mileage)— |         |         |         |        |        |
| Telegraph purposes only ..            | 51,027  | 50,558  | 50,129  | (a)    | (a)    |
| Telegraph and telephone purposes ..   | 134,974 | 141,360 | 143,992 | (a)    | (a)    |
| Length of line (single wire mileage)— |         |         |         |        |        |
| Conductors in Morse cable ..          | 4,813   | 4,816   | 4,904   | (a)    | (a)    |
| Conductors in submarine cable ..      | 5,693   | 5,747   | 6,741   | (a)    | (a)    |
| Pole routes (miles) ..                | 97,120  | 97,311  | 97,968  | 98,043 | 97,588 |

(a) Separate particulars not available.

3. Number of Telegrams Dispatched.—(i) *States*. The following table shows the number of telegrams dispatched in each State during 1941-42 according to the class of message transmitted :—

**TELEGRAMS DISPATCHED(a) : STATES, 1941-42.**

| Class of Message Transmitted within Australia. | N.S.W.           | Victoria.        | Q'land.          | S. Aust.         | W. Aust.         | Tasmania.      | Australia.        |
|--|------------------|------------------|------------------|------------------|------------------|----------------|-------------------|
|  | No.              | No.              | No.              | No.              | No.              | No.            | No.               |
| <b>Paid and Collect—</b>                       |                  |                  |                  |                  |                  |                |                   |
| Ordinary ..                                    | 6,778,601        | 5,123,131        | 3,286,510        | 1,700,002        | 2,078,219        | 370,431        | 19,336,894        |
| Urgent ..                                      | 397,641          | 156,044          | 142,080          | 108,404          | 71,882           | 9,906          | 885,957           |
| Press ..                                       | 152,341          | 47,869           | 55,876           | 16,026           | 39,442           | 27,933         | 339,487           |
| Lettergram ..                                  | 46,214           | 33,577           | 26,703           | 18,250           | 56,676           | 7,886          | 189,306           |
| Radiogram ..                                   | 19,221           | 735              | 21,932           | 11,514           | 17,223           | 3,134          | 73,759            |
| <b>Total ..</b>                                | <b>7,394,018</b> | <b>5,361,356</b> | <b>3,533,101</b> | <b>1,854,196</b> | <b>2,263,442</b> | <b>419,290</b> | <b>20,825,403</b> |
| <b>Unpaid—</b>                                 |                  |                  |                  |                  |                  |                |                   |
| Service ..                                     | 206,749          | 112,169          | 96,312           | 57,019           | 56,963           | 22,730         | 551,942           |
| Shipping ..                                    | ..               | ..               | ..               | 11               | ..               | ..             | 11                |
| Meteorological ..                              | 613,201          | 330,441          | 490,549          | 407,128          | 335,546          | 107,900        | 2,284,765         |
| <b>Total ..</b>                                | <b>819,950</b>   | <b>442,610</b>   | <b>586,861</b>   | <b>464,158</b>   | <b>392,509</b>   | <b>130,630</b> | <b>2,836,718</b>  |
| <b>Grand Total ..</b>                          | <b>8,213,968</b> | <b>5,803,966</b> | <b>4,119,962</b> | <b>2,318,354</b> | <b>2,655,951</b> | <b>549,920</b> | <b>23,662,121</b> |

(a) Includes radiogram traffic with islands adjacent to Australia and to ships at sea.

(ii) *Australia*. The number of telegrams dispatched to destinations within Australia during each of the last five years is given hereunder :—

**TELEGRAMS DISPATCHED : AUSTRALIA, 1937-38 TO 1941-42.**

| Telegrams.   | 1937-38.   | 1938-39.   | 1939-40.   | 1940-41.   | 1941-42.   |
|--------------|------------|------------|------------|------------|------------|
| Number(a) .. | 16,965,336 | 17,251,759 | 17,645,964 | 19,457,130 | 23,662,121 |

(a) See Note (a) above.

The increase in the volume of telegraph business has averaged 1,339,357 messages in each of the past five years.

## § 4. Oversea 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.

4. *Oversea Cable and Radio Traffic.*—(i) *States.* The number of telegrams received from and dispatched overseas in each State during 1941-42 is given hereunder :—

**INTERNATIONAL TELEGRAMS : STATES, 1941-42.**

| Particulars.       | N.S.W.    | Vic.    | Q'land. | S. Aust. | W. Aust. | Tas.   | Australia. |
|--------------------|-----------|---------|---------|----------|----------|--------|------------|
| Number received .. | 574,535   | 361,429 | 64,762  | 60,530   | 68,929   | 15,998 | 1,146,183  |
| „ dispatched       | 557,055   | 439,983 | 122,816 | 90,659   | 98,327   | 19,892 | 1,328,732  |
| Total ..           | 1,131,590 | 801,412 | 187,578 | 151,189  | 167,256  | 35,890 | 2,474,915  |

(ii) *Australia.* The following table shows the number of international telegrams received from and dispatched overseas in Australia during 1940-41 and 1941-42 :—

**INTERNATIONAL TELEGRAMS.—AUSTRALIA.**

| Messages. | Number Received. |           | Number Dispatched. |           | Total Number Received and Dispatched. |           |
|-----------|------------------|-----------|--------------------|-----------|---------------------------------------|-----------|
|           | 1940-41.         | 1941-42.  | 1940-41.           | 1941-42.  | 1940-41.                              | 1941-42.  |
| Number .. | 872,813          | 1,146,183 | 854,462            | 1,328,732 | 1,727,275                             | 2,474,915 |

5. *Cable and Beam Wireless Rates.*—Particulars of the various types of international telegrams available for general use prior to the war, and rates applicable thereto, may be found in previous issues.

**§ 5. Telephones.**

1. *Telephone Services.*—(i) *Mileage in Australia.* The following table shows the mileage of lines for telephone purposes, giving trunk lines separately, at 30th June, in each of the years 1939 to 1942 :—

**TELEPHONE LINES : AUSTRALIA AT 30th JUNE.**

| Particulars.  | 1939.     | 1940.     | 1941.     | 1942.     |
|---|-----------|-----------|-----------|-----------|
| Ordinary Lines—   |           |           |           |           |
| Conduits .. .. duct miles   | 10,817    | 11,919    | 12,973    | 13,828    |
| „ .. .. route „   | 8,082     | 9,179     | (a)       | (a)       |
| Conductors in aerial and underground cables .. single wire mileage                            | 1,967,512 | 2,106,484 | (b)       | (b)       |
| Working conductors in cables for junction circuits, not included above .. single wire mileage | 205,298   | 217,298   | 2,445,466 | 2,584,014 |
| Open conductors „ „ „   | 434,932   | 433,605   |           |           |
| Trunk Lines—  |           |           |           |           |
| Telephone trunk lines only—   |           |           |           |           |
| single wire mileage   | 220,687   | 219,880   | 414,092   | 416,941   |
| Telegraph and telephone purposes—   |           |           |           |           |
| single wire mileage   | 141,360   | 143,992   |           |           |

(a) Not available.  
§ 3, 2 (i), page 147.

(b) Includes telegraph conductors in morse and submarine cables. See  
(c) Includes lines for purely telegraph purposes. See § 3, 2 (i), page 147.

(ii) *Comparison with Other Countries.* During 1941-42 the total number of telephones added to the Post office system was 18,345 compared with 29,233 in 1940-41. With an average of 97 telephones per 1,000 of population, Australia continues to hold seventh place amongst the countries of the world in respect of telephone density. The average length of wire per instrument in Australia is over 4½ miles. In February, 1942, restrictions were introduced on the provision of telephone facilities, unless required by the fighting services, organizations concerned actively with public defence, security or welfare, or persons engaged in the production and distribution of vital foodstuffs.

(iii) *Summary for States.* Particulars relating to the telephone service in each State for the years ended 30th June, 1940 to 1942, will be found in the following table :—

**TELEPHONE SERVICES : SUMMARY.**

| Particulars.                                       | Year<br>(30th<br>June). | N.S.W.  | Vic.    | Q'land. | S. Aust. | W. Aust. | Tas.   | Aust.   |
|--|-------------------------|---------|---------|---------|----------|----------|--------|---------|
| Exchanges ..                                       | 1940                    | 2,016   | 1,685   | 1,075   | 584      | 645      | 357    | 6,362   |
|  | 1941                    | 2,018   | 1,686   | 1,079   | 588      | 635      | 358    | 6,364   |
|  | 1942                    | 2,025   | 1,676   | 1,098   | 591      | 637      | 356    | 6,383   |
| Telephone Offices (in-<br>cluding Exchanges)       | 1940                    | 3,043   | 2,379   | 1,541   | 833      | 910      | 511    | 9,217   |
|  | 1941                    | 3,053   | 2,376   | 1,567   | 854      | 911      | 513    | 9,274   |
|  | 1942                    | 3,060   | 2,459   | 1,589   | 853      | 922      | 512    | 9,395   |
| Lines connected ..                                 | 1940                    | 197,046 | 157,081 | 64,120  | 46,767   | 26,903   | 14,695 | 506,612 |
|  | 1941                    | 205,097 | 164,051 | 65,920  | 47,962   | 27,367   | 15,150 | 525,547 |
|  | 1942                    | 206,103 | 167,909 | 65,224  | 48,747   | 27,649   | 15,443 | 531,075 |
| Instruments con-<br>nected                         | 1940                    | 268,216 | 218,128 | 85,847  | 62,788   | 37,227   | 18,882 | 691,088 |
|  | 1941                    | 280,161 | 228,936 | 88,722  | 64,821   | 38,116   | 19,565 | 720,321 |
|  | 1942                    | 285,243 | 237,484 | 89,773  | 66,839   | 39,156   | 20,171 | 738,666 |
| (i) Subscribers' in-<br>struments                  | 1940                    | 261,185 | 213,395 | 82,790  | 60,801   | 35,717   | 17,998 | 671,886 |
|  | 1941                    | 272,851 | 223,897 | 85,501  | 62,734   | 36,543   | 18,640 | 700,166 |
|  | 1942                    | 277,524 | 232,094 | 86,335  | 64,687   | 37,480   | 19,222 | 717,342 |
| (ii) Public tele-<br>phones                        | 1940                    | 4,303   | 2,620   | 1,831   | 995      | 935      | 559    | 11,243  |
|  | 1941                    | 4,469   | 2,775   | 1,910   | 1,047    | 882      | 537    | 11,620  |
|  | 1942                    | 4,653   | 2,928   | 1,986   | 1,065    | 916      | 543    | 12,091  |
| (iii) Other local in-<br>struments                 | 1940                    | 2,728   | 2,113   | 1,226   | 992      | 575      | 325    | 7,959   |
|  | 1941                    | 2,841   | 2,264   | 1,311   | 1,040    | 691      | 388    | 8,535   |
|  | 1942                    | 3,066   | 2,462   | 1,452   | 1,087    | 760      | 406    | 9,233   |
| Instruments per 100<br>of population               | 1940                    | 9.59    | 11.46   | 8.41    | 10.38    | 7.97     | 7.94   | 9.83    |
|  | 1941                    | 9.97    | 11.81   | 8.56    | 10.51    | 8.13     | 8.19   | 10.14   |
|  | 1942                    | 10.40   | 12.06   | 8.64    | 10.84    | 8.32     | 8.40   | 9.71    |
| Earnings .. ..                                     |                         | £'000.  | £'000.  | £'000.  | £'000.   | £'000.   | £'000. | £'000.  |
|  | 1940                    | 3,581   | 2,602   | 1,176   | 758      | 467      | 226    | 8,810   |
|  | 1941                    | 3,750   | 2,764   | 1,205   | 761      | 481      | 231    | 9,192   |
| Working expenses ..                                | 1942                    | 4,130   | 3,102   | 1,346   | 866      | 532      | 257    | 10,233  |
|  | 1940                    | 2,154   | 1,635   | 713     | 537      | 367      | 197    | 5,603   |
|  | 1941                    | 2,256   | 1,691   | 802     | 544      | 377      | 216    | 5,886   |
|  | 1942                    | 2,443   | 1,895   | 915     | 564      | 415      | 225    | 6,457   |
| Percentage of working<br>expenses on earn-<br>ings |                         | %       | %       | %       | %        | %        | %      | %       |
|  | 1940                    | 60.15   | 62.86   | 60.65   | 70.90    | 78.63    | 86.91  | 63.61   |
|  | 1941                    | 60.17   | 61.19   | 66.52   | 71.45    | 78.43    | 93.38  | 64.03   |
|  | 1942                    | 59.15   | 61.08   | 67.93   | 65.18    | 77.99    | 87.78  | 63.10   |

Of the total telephones (738,666) in service on 30th June, 1942, 269,270, or 36.5 per cent. were connected to exchanges situated beyond the limits of the metropolitan telephone networks. The number of telephone offices, including exchanges, increased by 121 during the year 1941-42, bringing the total in Australia to 9,395.

(iv) *Subscribers' Lines and Calling-rates.* The next table gives the number of subscribers' lines and daily calling-rate at central, suburban and country telephone exchanges in the several States for 1941-42 :—

**TELEPHONES : SUBSCRIBERS' LINES AND DAILY CALLING-RATE, 1941-42.**

| State.               | Central Exchanges.  |                                       | Suburban Exchanges. |                                       | Country Exchanges.  |                                       | Total. (a)          |                                       |
|----------------------|---------------------|---------------------------------------|---------------------|---------------------------------------|---------------------|---------------------------------------|---------------------|---------------------------------------|
|                      | Subscribers' Lines. | Average Outward Calls Daily per line. | Subscribers' Lines. | Average Outward Calls Daily per line. | Subscribers' Lines. | Average Outward Calls Daily per line. | Subscribers' Lines. | Average Outward Calls Daily per line. |
|                      | No.                 | No.                                   | No.                 | No.                                   | No.                 | No.                                   | No.                 | No.                                   |
| New South Wales ..   | 21,458              | 12.57                                 | 114,536             | 4.47                                  | 71,270              | 2.72                                  | 207,264             | 4.71                                  |
| Victoria ..          | 13,493              | 10.14                                 | 100,579             | 4.04                                  | 53,837              | 1.83                                  | 167,909             | 3.82                                  |
| Queensland ..        | 8,851               | 10.63                                 | 21,046              | 3.40                                  | 34,045              | 2.74                                  | 63,942              | 4.05                                  |
| South Australia ..   | 6,408               | 9.79                                  | 22,027              | 3.07                                  | 18,722              | 1.75                                  | 47,157              | 3.46                                  |
| Western Australia .. | 7,501               | 7.36                                  | 9,336               | 3.94                                  | 9,579               | 2.03                                  | 26,416              | 4.22                                  |
| Tasmania ..          | 3,686               | 4.74                                  | 2,126               | 2.52                                  | 8,762               | 2.35                                  | 14,574              | 2.98                                  |
| Australia (a) ..     | 61,397              | 10.36                                 | 269,650             | 4.08                                  | 196,215             | 2.34                                  | 527,262             | 4.16                                  |

(a) Approximate figures.

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

For Australia the average number of calls per line at central exchanges was more than two and a half times greater than at suburban exchanges, while the average for suburban exchanges was one and three-quarter times the number shown for rural exchanges.

(v) *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, 1941 and 1942 appear hereunder :—

**TELEPHONES : NUMBER OF EFFECTIVE PAID LOCAL CALLS.**

| State.               | Subscribers' Calls. |          | Calls from Public Telephones. |          | Total Calls. |          |
|----------------------|---------------------|----------|-------------------------------|----------|--------------|----------|
|                      | 1940-41.            | 1941-42. | 1940-41.                      | 1941-42. | 1940-41.     | 1941-42. |
|                      | '000.               | '000.    | '000.                         | '000.    | '000.        | '000.    |
| New South Wales ..   | 248,852             | 255,480  | 27,003                        | 28,982   | 275,855      | 284,462  |
| Victoria ..          | 180,850             | 186,734  | 13,561                        | 15,750   | 194,411      | 202,484  |
| Queensland ..        | 69,024              | 67,873   | 6,457                         | 7,458    | 75,481       | 75,331   |
| South Australia ..   | 45,790              | 47,510   | 4,605                         | 5,714    | 50,395       | 53,224   |
| Western Australia .. | 31,452              | 32,446   | 2,052                         | 2,535    | 33,504       | 34,981   |
| Tasmania ..          | 11,870              | 12,655   | 1,033                         | 1,211    | 12,903       | 13,866   |
| Australia ..         | 587,838             | 602,698  | 54,711                        | 61,650   | 642,549      | 664,348  |

(vi) *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 years 1939-40 to 1941-42 :—

TELEPHONES : TRUNK LINE CALLS AND REVENUE.

| Particulars.              | N.S.W.  | Victoria. | Q'land. | S. Aust. | W. Aust. | Tas.   | Australia. |
|---------------------------|---------|-----------|---------|----------|----------|--------|------------|
| Total Calls—              | '000.   | '000.     | '000.   | '000.    | '000.    | '000.  | '000.      |
| 1939-40 ..                | 14,688  | 11,853    | 7,485   | 4,265    | 2,282    | 1,930  | 42,503     |
| 1940-41 ..                | 15,043  | 12,223    | 7,595   | 4,213    | 2,242    | 1,950  | 43,266     |
| 1941-42 ..                | 15,780  | 12,941    | 7,762   | 4,491    | 2,288    | 2,055  | 45,317     |
| Total Revenue—            | £       | £         | £       | £        | £        | £      | £          |
| 1939-40 ..                | 786,200 | 577,312   | 418,800 | 200,639  | 127,124  | 79,543 | 2,189,618  |
| 1940-41 ..                | 833,068 | 618,817   | 421,468 | 205,185  | 125,398  | 81,394 | 2,285,330  |
| 1941-42 ..                | 968,626 | 737,633   | 485,914 | 246,125  | 145,225  | 93,639 | 2,677,162  |
| Average Revenue per Call— | d.      | d.        | d.      | d.       | d.       | d.     | d.         |
| 1939-40 ..                | 12.85   | 11.69     | 13.43   | 11.29    | 13.37    | 9.89   | 12.36      |
| 1940-41 ..                | 13.29   | 12.15     | 13.32   | 11.69    | 13.14    | 10.01  | 12.68      |
| 1941-42 ..                | 14.74   | 13.68     | 15.02   | 13.15    | 15.23    | 10.93  | 14.18      |

The number of trunk line calls during 1941-42 increased by more than two millions, or 4.74 per cent., compared with the figures for the previous year, whilst the average revenue per call rose by 1.5d.

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

### § 6. Radio Telegraphy and Telephony.

1. *General.*—A statement in regard to the initial steps taken to establish radio telegraphy in Australia appears in Official Year Book No. 18, p. 343.

2. *Wireless Licences.*—(i) *General.* Particulars of the various types of licences appear in previous issues.

The following table shows the number of each class of licence in force in each State and Territory as at 30th June, 1942 :—

WIRELESS LICENCES : 30th JUNE, 1942.

| Station Licence.        | N.S.W.  | Vic.    | Qld.    | S.A.    | W.A.   | Tas.   | N.T. | A.C.T. | Aust.     |
|-------------------------|---------|---------|---------|---------|--------|--------|------|--------|-----------|
| Coast ..                | 1       | 1       | 6       | 1       | 5      | 3      | 1    | ..     | 18        |
| Ship ..                 | 73      | 82      | 16      | 8       | 1      | 1      | ..   | ..     | 181       |
| Aircraft ..             | 7       | 9       | 2       | 4       | 2      | ..     | 1    | ..     | 25        |
| Land ..                 | 26      | 3       | 73      | 40      | 78     | 9      | 59   | 2      | 290       |
| Broadcasting—           |         |         |         |         |        |        |      |        |           |
| National ..             | 6       | 5       | 6       | 3       | 5      | 3      | ..   | 1      | 29        |
| Commercial ..           | 34      | 19      | 19      | 6       | 11     | 8      | ..   | 1      | 98        |
| Broadcast Listeners' .. | 498,095 | 371,502 | 172,527 | 136,908 | 91,945 | 46,404 | 336  | 2,356  | 1,320,073 |
| Experimental ..         | ..      | ..      | ..      | ..      | ..     | ..     | ..   | ..     | ..        |
| Portable ..             | 6       | ..      | 7       | 3       | 3      | ..     | 5    | 4      | 28        |
| Special ..              | 81      | 65      | 22      | 14      | 10     | 4      | 1    | 1      | 198       |
| Total Issued            | 498,329 | 371,686 | 172,678 | 136,987 | 92,060 | 46,432 | 403  | 2,365  | 1,320,940 |

Similar particulars to the above in relation to the year 1942-43 will be found in the Appendix to this volume.

(ii) *Broadcast Listeners*'. The striking development of the use of the radio in Australia is illustrated by the following table, which gives the number of broadcast listeners' licences in force at 30th June, 1925, 1930, and for each year from 1935 to 1942 :—

NUMBER OF BROADCAST LISTENERS' LICENCES.

| In force at<br>30th June— | N.S.W.<br>(a) | Victoria. | Q'land.<br>(b) | S. Aust.<br>(c) | W. Aust. | Tas.   | 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    |
| 1936 ..                   | 315,731       | 263,414   | 83,028         | 87,335          | 49,987   | 24,118 | 823,613    |
| 1937 ..                   | 358,292       | 288,717   | 101,358        | 99,033          | 61,151   | 29,780 | 938,331    |
| 1938 ..                   | 403,978       | 315,406   | 117,496        | 111,787         | 71,324   | 36,013 | 1,056,004  |
| 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  |
| 1941 ..                   | 494,884       | 362,790   | 168,216        | 131,292         | 91,368   | 44,716 | 1,293,266  |
| 1942 ..                   | 500,451       | 371,502   | 172,527        | 137,244         | 91,945   | 46,404 | 1,320,073  |

(a) Includes Australian Capital Territory.

(b) Includes Papua.

(c) Includes Northern Territory.

3. *Broadcasting*.—(i) *The National Broadcasting Service*. The technical services for the National Service are provided by the Postmaster-General's Department, and the programme by the Australian Broadcasting Commission, a body consisting of five members, constituted under the provisions of the Australian Broadcasting Commission Act. The fee for a broadcast listener's licence is 20s. per annum for a receiver situated approximately within 250 miles from a station of the National Service, and 14s. per annum in the area beyond. Licences are issued free to blind persons. In September, 1940, the Commission's proportion of the licence fee was reduced from 12s. to 10s. In July, 1942, it was increased to 11s., and representations have been made for the restoration of the other 1s.

The National Broadcasting System of Australia at 30th June, 1942, comprised 29 transmitting stations as follows :—

*Medium-wave Stations—*

|                        |                       |
|------------------------|-----------------------|
| 2FC and 2BL Sydney.    | 4RK Rockhampton.      |
| 2NC Newcastle.         | 4QS Dalby.            |
| 2CO Corowa.            | 4 AT Atherton.        |
| 2NR Lawrence.          | 5CL and 5AN Adelaide. |
| 2CR Cumnock            | 5CK Crystal Brook.    |
| 2CY Canberra.          | 6WF and 6WN Perth.    |
| 3LO and 3AR Melbourne. | 6WA Minding.          |
| 3GI Sale.              | 6GF Kalgoorlie.       |
| 3VV Dooen.             | 7ZL and 7ZR Hobart.   |
| 4QG and 4QR Brisbane.  | 7NT Kelso.            |
| 4QN Townsville.        |                       |

*Short-wave Stations—*

|                                     |                               |
|-------------------------------------|-------------------------------|
| VLG and VLR Lyndhurst,<br>Victoria. | VLW Perth, Western Australia. |
|-------------------------------------|-------------------------------|

(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 and the maximum period of a licence is three years, although they may be renewed annually at the discretion of the Postmaster-General. Licensees of these stations do not share in the listeners' licence fees, but 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, 1942, was 98.

4. **Overseas Communication by Wireless.**—(i) *Beam Wireless.* The Beam Wireless stations provided for under the agreement between the Commonwealth Government and Amalgamated Wireless Australasia Ltd. were completed early in 1927, and a direct beam wireless service to England was established on 8th April, 1927. A similar service to North America was opened on 16th June, 1928. Particulars of international traffic via "Beam" are given in par. (iii) (a) following.

(ii) *Wireless Communication in the Pacific.* Prior to the outbreak of war with Japan, New Zealand, the territories of New Guinea and Papua and the various small islands in the Pacific Ocean were served by a comprehensive system of wireless communication. Particulars of the island traffic for the year 1941-42 appear in par. (iii) (b) and (c) following.

(iii) *Radiotelegraphic Traffic.* (a) *International.* The following statement shows particulars of international traffic "via Beam" to and from United Kingdom and other places during the year ended 30th June, 1942:—

#### RADIO TRAFFIC : INTERNATIONAL, 1941-42.

| Class of Traffic.                      | Number of Words Transmitted to— |                  |                   | Number of Words Received from— |                  |                   |
|--|---------------------------------|------------------|-------------------|--------------------------------|------------------|-------------------|
|  | United Kingdom.                 | Other Places.    | Total.            | United Kingdom.                | Other Places.    | Total.            |
| Ordinary (a) ..                        | 540,474                         | 335,879          | 876,353           | 487,427                        | 245,238          | 732,665           |
| Deferred ordinary ..                   | 1,808,502                       | 1,193,225        | 3,001,727         | 1,885,622                      | 637,874          | 2,523,496         |
| Government (a) ..                      | 89,159                          | 122,607          | 211,766           | 141,399                        | 447,593          | 588,992           |
| Press (including deferred press) ..    | 1,473,090                       | 1,090,199        | 2,563,289         | 5,247,409                      | 1,801,247        | 7,048,656         |
| Daily letter and greeting telegrams .. | 2,641,205                       | 3,366,293        | 6,007,498         | 2,977,695                      | 1,293,617        | 4,271,312         |
| E.F.M.(b) ..                           | 130,954                         | 32,203           | 163,217           | 103,448                        | 35,098           | 138,546           |
| <b>Total</b> ..                        | <b>6,683,384</b>                | <b>6,140,466</b> | <b>12,823,850</b> | <b>10,843,000</b>              | <b>4,460,667</b> | <b>15,303,667</b> |

(a) Includes code telegrams. (b) Special telegrams, usually in standard phrases, for transmission to and from members of the Defence Services abroad.

(b) *Coast Stations.* Particulars of the traffic handled by the several coast stations during 1941-42 are as follows:—

#### RADIO TRAFFIC : COAST STATIONS, 1941-42.

| State or Territory.   | Particulars.        |                |               |               |                |
|-----------------------|---------------------|----------------|---------------|---------------|----------------|
|                       | Total Paying Words. | Messages.      |               |               |                |
|                       |                     | Paying.        | Service.      | Weather.      | Total.         |
|                       | No.                 | No.            | No.           | No.           | No.            |
| New South Wales ..    | 2,284,026           | 51,338         | 8,039         | 9,590         | 68,967         |
| Victoria ..           | 104,994             | 2,400          | 929           | 1,066         | 4,395          |
| Queensland ..         | 190,721             | 6,519          | 5,244         | 8,016         | 19,779         |
| South Australia ..    | 1,406               | 47             | 138           | ..            | 185            |
| Western Australia ..  | 25,170              | 1,124          | 12,919        | 748           | 14,791         |
| Tasmania ..           | 105,303             | 6,548          | 1,307         | 2,068         | 9,923          |
| Northern Territory .. | 64,455              | 2,902          | 3,820         | 5,316         | 12,038         |
| <b>Australia</b> ..   | <b>2,776,075</b>    | <b>70,878</b>  | <b>32,396</b> | <b>26,804</b> | <b>130,078</b> |
| <b>Papua</b> ..       | <b>1,920,472</b>    | <b>46,335</b>  | <b>2,241</b>  | <b>16,412</b> | <b>64,988</b>  |
| <b>Grand Total</b> .. | <b>4,696,547</b>    | <b>117,213</b> | <b>34,637</b> | <b>43,216</b> | <b>195,066</b> |

(c) *Island Stations.* Particulars of the island radio traffic dealt with during 1941-42 are given in the following table :—

**RADIO TRAFFIC : ISLAND STATIONS, 1941-42.**

| Particulars. |    |    | To<br>Australia. | From<br>Australia. | Inter-<br>Island. | Ship. | Total.  |
|--------------|----|----|------------------|--------------------|-------------------|-------|---------|
|              |    |    | No.              | No.                | No.               | No.   | No.     |
| Messages     | .. | .. | 5,913            | 5,841              | 13,376            | 3     | 25,133  |
| Words        | .. | .. | 167,815          | 226,089            | 210,425           | 57    | 604,386 |