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CHAPTER 15

EDUCATION, CULTURAL ACTIVITIES, AND RESEARCH

For the most recent statistics available on subjects dealt with in this chapter reference should be made to the series of mimeographed bulletins *Social Statistics* issued by this Bureau. The *Quarterly Summary of Australian Statistics* contains summarised information on these subjects, and financial aspects are dealt with in the annual bulletins *Commonwealth Finance and State, Territory and Local Government Authorities' Finance and Government Securities*. The Annual Reports of the respective State Education Departments provide detailed statistical and other information concerning particular States.

EDUCATION

An account of the development of the Australian school system up to 1929 may be found in Year Books Nos 1, 2, 17 and 22. In Year Book No. 40 a review of changes which occurred up to 1951 and of the practices then current was presented from material furnished by the then Commonwealth Office of Education (now part of the Commonwealth Department of Education and Science). The Department has contributed much of the textual matter in the early part of this chapter.

Education in Australian schools

Administration and organisation

In Australia the provision of schools is mainly the responsibility of State Governments. During the nineteenth century all six Australian colonies had established systems of compulsory education, beginning with the *Education Act* 1872 in Victoria, and followed by similar Acts in Queensland (1875), South Australia (1875), New South Wales (1880), Tasmania (1893), and Western Australia (1893). These Acts, with subsequent amendments, constitute the legal basis of compulsory education in the Australian States to-day.

School attendance is compulsory throughout Australia between the ages of six and fifteen at least. The minimum leaving age is fifteen years in New South Wales, Victoria, Queensland, and South Australia, and sixteen years in Tasmania, while in Western Australia attendance is compulsory until the end of the year in which the child turns fifteen years. The Education Acts require that all children between the prescribed ages must attend either a government school or some other recognised educational institution. Children may be exempted from the requirement of compulsory attendance if they live too far from a school or suffer a physical disability. These children usually receive correspondence tuition.

The school year in Australia begins at the end of January or early in February; it ends in mid-December. The long vacation is taken over the summer months (December to February) and two short vacations divide the school year into three terms.

At government primary schools it is usual for both boys and girls to attend the same school; at the secondary level practices vary, but the trend is towards co-educational schools. Non-government secondary schools cater mainly for boys and girls separately.

Government school systems

Government schools, except in the Commonwealth Territories, are a responsibility of the six State Governments. Although the educational systems are not identical, they have many similar features. Responsibility for framing educational policy and having it put into effect rests with a Minister for Education, who is a member of the State Cabinet. The administrative authority in each State is an Education Department headed by a Director-General or Director of Education. Separate divisions of the Education Department in each State administer primary, secondary and technical education (in New South Wales there is a separate Department of Technical Education). Other divisions look after such matters as the recruitment and training of teachers, pupil guidance, research, and the education of atypical children. In New South Wales administration has been decentralised to a degree by the appointment of directors who are responsible for policy in the area which they control.

Tuition at government primary and secondary schools is free in all States. Parents are usually expected to bear the cost of text-books, uniforms and charges for such things as the use of sports materials. However, income tax concessions exist in respect of these expenditures for both government and non-government systems, and certain text-book costs are subsidised in the case of pupils attending government and non-government schools in some States.

Non-government schools systems

More than 80 per cent of the children at non-government primary and secondary schools attend Roman Catholic schools, which form a highly developed system. At the primary level these children normally attend mixed parish schools, but at the secondary level there are boys schools, approximately half taking boarders, and girls schools. Some of the small convent schools in country districts are co-educational up to the junior secondary level.

The majority of other non-government schools, sometimes known as 'private' or 'independent' schools, are conducted by, or are under the auspices of, various other religious denominations, particularly the Church of England, Presbyterian and Methodist Churches. A few non-government schools, including some of the foremost, are undenominational and conducted under the auspices of corporate bodies.

The methods adopted by the educational authorities to ensure an acceptable standard of education at non-government schools vary from State to State. In New South Wales, Victoria, Western Australia, and Tasmania these schools are regularly inspected. In Victoria and Tasmania, schools and teachers must be registered. Non-government schools in Queensland and also those in South Australia are not subject to inspection.

The principals of a number of the larger non-government schools have formed organisations with both State and Australia-wide coverage, namely the Headmasters' Conference of the Independent Schools of Australia and the Association of Headmistresses of Independent Schools of Australia.

Schools and courses

Primary education in government schools. Though school attendance is not compulsory until the age of six, most Australian children begin school when they are five, attending infants schools or infants classes attached to a primary school. In some States the first year in the infants department is known as 'kindergarten'. The emphasis in infants classes is on the development of skills in language and numbers. Creative expression through drawing, dancing, handiwork, dramatisation, and painting and similar activities is encouraged.

Primary schools are normally provided when and where there is sufficient population to justify them. Irrespective of the size or the location of the school, standards of tuition do not vary appreciably, because teachers within a State follow similar courses of training and transfer freely between metropolitan and country areas. The Education Departments prescribe syllabuses of instruction, which are drawn up with the assistance of expert committees. The primary syllabuses have an emphasis on basic subjects like reading, writing, arithmetic and social studies, but the teacher has some freedom to modify courses to suit local circumstances and the varying abilities of his students.

Children attend primary schools in their own districts, usually within walking distance of their homes, on five days each week. The school day is broken up into three or four sessions by a lunch break and by a morning and sometimes an afternoon recess. The total period of instruction is four and a half to five hours daily with individual subject lessons lasting twenty to thirty minutes. Periods are set aside for physical education and sport. One teacher generally has charge of a class and teaches it all the subjects set out in the curriculum for the particular grade.

Progression from primary to secondary school is usually automatic. Allocation to particular schools or particular courses is based on the district in which the child lives, the recommendations of the headmaster, general ability tests, tests of achievement in the basic subjects, and parents' wishes.

Secondary education in government schools. The age of transfer from a government primary to secondary school is usually between twelve and thirteen. Most secondary schools are co-educational, although separate schools for boys and girls are not uncommon in capital cities. In the cities and larger country centres secondary and primary courses are provided in separate schools, but in less populous areas secondary classes sometimes share buildings with primary classes.

The secondary student takes up new studies, such as foreign languages, technical or commercial subjects, and moves on to more specialised studies in natural and social sciences and mathematics. The study of basic subjects begun in primary school is continued. The actual subjects studied depend on the ability of the pupil and, in some States, the type of school. A school day is divided into 'periods' and the children are taught by a number of teachers, each specialising in a particular subject or group of subjects.

In the past, to meet the varying abilities and needs of students, various kinds of secondary schools were established in which different types of education were provided, although in country areas secondary schools tended of necessity to be comprehensive and offered a full range of secondary courses. But following the re-examination by expert committees of the problems associated with the provision of appropriate secondary education for all, significant changes in the structure and curricula of secondary schools are taking place. In New South Wales, for example, following a committee's recommendation that the secondary curriculum should offer a core of common basic education to all students, secondary schools have become comprehensive. Pupils of different aptitudes and interests in a given locality now attend the same secondary school, undertake this core of common basic studies, and in addition specialise according to their proven abilities and interests.

The most common type of secondary school is the comprehensive or multi-purpose high school, which offers a wide range of subjects. To cater for this diversity of subjects, most high schools now have modern facilities for the teaching of domestic science, commercial subjects, woodwork, and other technical subjects. In some States there are still, however, separate high schools specialising in technical, agricultural, commercial, or home science subjects. Some of the agricultural high schools are residential. The curriculum consists of general educational subjects and practical farm training. There are also 'area' and 'rural' schools offering up to three years of secondary study, and in some States courses in agriculture are also given at high schools.

Primary and secondary education in non-government schools. Non-government schools follow curricula similar to those laid down by Education Departments and prepare their students for examinations conducted by public examining authorities. Most non-government schools are comprehensive type schools, providing a range of subjects and courses at various levels. Although there are similarities between non-government and government schools in the courses they provide, more emphasis is given to the religious training of pupils in denominational schools. Non-government schools sometimes offer facilities additional to those normally found in government schools, such as personal tuition in music. A few are organised on 'experimental' lines.

Examinations

During the course of secondary education State-wide examinations are taken at two levels. The earlier examination qualifies pupils for entry to trade courses at technical colleges and agricultural colleges, to junior commercial positions in, for instance, insurance and banking, to nursing and secretarial courses, to lower grades of the public service, and to industry. The examination at the end of the secondary school course qualifies students for entry to teachers' colleges, and is also the qualification for entry to the university, certain subjects and combinations of subjects being set down as the matriculation requirements by the respective universities.

In most States the higher examination is controlled by a board consisting of representatives of the department of education, the universities, non-government schools, and sometimes of other bodies such as teachers' organisations. A brief description of the examinations in each State follows.

New South Wales. For pupils who commenced their secondary education in 1962 or later, the full secondary course is of six years' duration, with a School Certificate Examination at the end of the fourth year, age about sixteen, and a Higher School Certificate Examination (Matriculation) after a further two years. Pupils who leave school before gaining their School Certificate receive a signed statement of attainment from their school principal.

Victoria. The last Intermediate Examination taken at the end of the fourth secondary year was conducted in 1967. The School Leave Examination is taken at the end of fifth year, and the Matriculation Examination at the end of sixth year. Pupils at approved non-government schools and certain government schools may be accredited for the Leaving by passing examinations set by their own schools.

Queensland. The Junior Public Examination is taken at the end of third year, at about the age of fifteen and a half. The Senior Public Examination conducted by the University of Queensland is taken at the end of fifth year, at about the age of seventeen and a half, and matriculation is obtained on results in this examination.

South Australia. The Intermediate Examination taken at the end of the third year, at about the age of fifteen and a half, will be held for the last time in 1968. The Leaving Examination is taken at the end of the fourth year and a Matriculation Examination is held at the end of the fifth year.

Western Australia. The Junior Certificate Examination is taken at the end of third year, at about the age of fifteen and a half. Students who pursue a less academic course may take the High School Certificate Examination at this level. The Leaving Certificate Examination is taken at the end of fifth year, at an average age of seventeen and a half, and matriculation is gained on results in this examination.

Tasmania. The Schools Board Certificate Examination is taken at the end of fourth year, at about the age of sixteen and a half, and the Matriculation Examination conducted by the University of Tasmania at the end of the fifth or sixth year.

Numbers of schools, teachers and pupils

The statistics which follow relate generally to schools providing education according to the primary or secondary school curricula of the various State Education Departments, or both, whether provided in government or non-government schools. Junior technical schools, correspondence schools, and schools in institutional homes, hospitals and similar establishments are included. Institutions providing only pre-school education, senior technical and agricultural colleges, evening schools, continuation classes, and institutions such as business colleges and coaching establishments are, as a rule, excluded.

School censuses are conducted annually at or about the beginning of August throughout all States and Territories of Australia. The numbers of pupils in the tables which follow refer to enrolments at the school census date. The numbers of schools and teachers refer to the position at dates which vary from State to State and in some instances from year to year. While it has not been possible to present all figures on a uniform basis between States, continuity of the figures for any one State over the period of years shown has been maintained as far as possible. Particulars relating to senior technical colleges are given on pages 521-3.

Schools, teachers and pupils

The numbers of government and non-government schools, teachers and pupils for 1967 and earlier years are shown in the following tables.

NUMBERS OF SCHOOLS AND PUPILS, BY CATEGORY OF SCHOOL STATES AND TERRITORIES, 1967

| <i>Category of school</i> | <i>N.S.W.</i> | <i>Vic.</i> | <i>Qld</i> | <i>S.A.</i> | <i>W.A.</i> | <i>Tas.</i> | <i>N.T.</i> | <i>A.C.T.</i> | <i>Aust.</i> |
|---------------------------------|---------------|--------------|--------------|-------------|-------------|-------------|-------------|---------------|--------------|
| SCHOOLS | | | | | | | | | |
| Government | 2,591 | 2,241 | 1,307 | 663 | 565 | 297 | 57 | 35 | 7,756 |
| Non-government— | | | | | | | | | |
| Denominational— | | | | | | | | | |
| Church of England | 33 | 35 | 17 | 12 | 9 | 4 | .. | 3 | 113 |
| Hebrew | 4 | 7 | .. | .. | 1 | .. | .. | .. | 12 |
| Lutheran | 3 | 8 | 4 | 14 | .. | .. | 1 | .. | 30 |
| Methodist | 6 | 4 | (a) 5 | 4 | 3 | 1 | 2 | .. | 25 |
| Presbyterian | 13 | 14 | 5 | 2 | 2 | 2 | .. | .. | 38 |
| Roman Catholic | 661 | 482 | 295 | 130 | 174 | 51 | 11 | 15 | 1,819 |
| Seventh-day Adventist | 18 | 8 | 6 | 5 | 7 | 3 | .. | .. | 47 |
| Other | .. | 4 | 1 | 2 | 2 | 1 | 2 | .. | 12 |
| Undenominational | 52 | 16 | 9 | 4 | 4 | 3 | 4 | .. | 92 |
| <i>Total, non-government</i> | <i>790</i> | <i>578</i> | <i>342</i> | <i>173</i> | <i>202</i> | <i>65</i> | <i>20</i> | <i>18</i> | <i>2,188</i> |
| Grand total | 3,381 | 2,819 | 1,649 | 836 | 767 | 362 | 77 | 53 | 9,944 |

(a) Presbyterian and Methodist Schools Association.

NUMBERS OF SCHOOLS AND PUPILS, BY CATEGORY OF SCHOOL STATES AND TERRITORIES, 1967—*continued*

| Category of school | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust. |
|----------------------------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|------------------|
| PUPILS (CENSUS ENROLMENT) | | | | | | | | | |
| Government | 700,009 | 540,281 | 279,362 | 217,034 | 154,975 | 74,265 | 9,179 | 18,447 | 1,993,552 |
| Non-government— | | | | | | | | | |
| Denominational— | | | | | | | | | |
| Church of England | 12,933 | 16,195 | 5,490 | 4,281 | 3,796 | 1,890 | .. | 1,359 | 45,944 |
| Hebrew | 388 | 2,500 | .. | .. | 142 | .. | .. | .. | 3,030 |
| Lutheran | 241 | 712 | 927 | 1,544 | .. | .. | 138 | .. | 3,562 |
| Methodist | 3,090 | 4,153 | (a)2,113 | 2,107 | 1,690 | 318 | 406 | .. | 13,877 |
| Presbyterian | 5,674 | 8,441 | 969 | 1,493 | 1,272 | 638 | .. | .. | 18,487 |
| Roman Catholic | 189,971 | 146,844 | 73,008 | 26,011 | 32,002 | 10,683 | 1,642 | 6,597 | 486,758 |
| Seventh-day Adventist | 1,231 | 613 | 345 | 177 | 535 | 125 | .. | .. | 3,026 |
| Other | .. | 2,372 | 152 | 430 | 174 | 985 | 167 | .. | 4,280 |
| Udenominational | 6,528 | 3,692 | 3,924 | 1,216 | 123 | 274 | 66 | .. | 15,823 |
| <i>Total, non-government</i> | <i>220,056</i> | <i>185,522</i> | <i>86,928</i> | <i>37,259</i> | <i>39,734</i> | <i>14,913</i> | <i>2,419</i> | <i>7,956</i> | <i>594,787</i> |
| Grand total | 920,065 | 725,803 | 366,290 | 254,293 | 194,709 | 89,178 | 11,598 | 26,403 | 2,588,339 |

(a) Presbyterian and Methodist Schools Association.

NUMBERS OF TEACHERS: STATES AND TERRITORIES, 1967(a)

| State or Territory | Government schools | | | Non-government schools | | | All schools | | |
|--|--------------------|--------------|----------------|------------------------|--------------|----------------|---------------|---------------|----------------|
| | Part-time | | Eq. f.t.u. (b) | Part-time | | Eq. f.t.u. (b) | Part-time | | Eq. f.t.u. (b) |
| | Full-time | No. | | Full-time | No. | | Full-time | No. | |
| New South Wales | 29,288 | 1,178 | 582 | 7,179 | (e)1,976 | 530 | 36,467 | 3,154 | 1,112 |
| Victoria | 22,144 | (c)2,229 | (c)1,272 | 6,050 | 1,388 | 292 | 28,194 | 3,617 | 1,564 |
| Queensland | 10,107 | 630 | 51 | 2,701 | 607 | 134 | 12,808 | 1,237 | 185 |
| South Australia | 8,669 | 650 | 235 | 1,315 | 396 | 136 | 9,984 | 1,046 | 371 |
| Western Australia | 5,619 | 174 | 63 | 1,347 | 243 | 64 | 6,966 | 417 | 127 |
| Tasmania | 3,305 | 316 | 71 | 542 | 155 | 40 | 3,847 | 471 | 111 |
| Northern Territory | 379 | 6 | 1 | (d)72 | (d)1 | 29 | 451 | 7 | 1 |
| Australian Capital Territory | 745 | 32 | 15 | 269 | (e)63 | 29 | 1,014 | 95 | 44 |
| Total | 80,256 | 5,215 | 2,290 | 19,475 | 4,829 | 1,225 | 99,731 | 10,044 | 3,515 |

(a) Excludes teachers-in-training generally. (b) The methods used for calculating equivalent full-time units of part-time teaching vary from State to State, between government and non-government schools, and between primary and secondary schools within States. For most schools the information is based on either the total hours worked or total number of class periods taken in a week by part-time teachers, in relation to the normal hours worked or periods taken by full-time teachers. (c) If a full-time teacher teaches both senior and junior technical school pupils, he is counted as part-time in these statistics, (which include junior technical, but not senior technical, schools), if his teaching load in the junior school is less than 75 per cent. (d) Excludes unqualified teachers and teaching assistants at mission schools. (e) Visiting teachers who attend more than one school are counted as part-time in each.

NUMBERS OF SCHOOLS AND PUPILS: AUSTRALIA, 1963 TO 1967

| | 1963 | 1964 | 1965 | 1966 | 1967 |
|--------------------------------|------------------|------------------|------------------|------------------|------------------|
| Schools— | | | | | |
| Government | 7,910 | 7,872 | 7,844 | 7,826 | 7,756 |
| Non-government | 2,193 | 2,205 | 2,221 | 2,194 | 2,188 |
| <i>Total schools</i> | <i>10,103</i> | <i>10,077</i> | <i>10,065</i> | <i>10,020</i> | <i>9,944</i> |
| Pupils(a)— | | | | | |
| Government | 1,756,538 | 1,801,364 | 1,857,120 | 1,921,263 | 1,993,552 |
| Non-government | 552,759 | 565,415 | 580,532 | 583,067 | 594,787 |
| <i>Total pupils</i> | <i>2,309,297</i> | <i>2,366,779</i> | <i>2,437,652</i> | <i>2,504,330</i> | <i>2,588,339</i> |

(a) Census enrolment.

**NUMBERS OF TEACHERS, BY CATEGORY OF SCHOOL
STATES AND TERRITORIES, 1967(a)**

| | <i>N.S.W.</i> | <i>Vic.</i> | <i>Qld</i> | <i>S.A.</i> | <i>W.A.</i> | <i>Tas.</i> | <i>N.T.</i> | <i>A.C.T.</i> | <i>Aust.</i> |
|---------------------------------------|---------------|-------------|------------|-------------|-------------|-------------|-------------|---------------|--------------|
| Government schools— | | | | | | | | | |
| Full-time | 29,288 | 22,144 | 10,107 | 8,669 | 5,619 | 3,305 | 379 | 745 | 80,256 |
| Part-time— | | | | | | | | | |
| Number | 1,178 | (b)2,229 | 630 | 650 | 174 | 316 | 6 | 32 | 5,215 |
| Eq. f.t.u.(c) | 582 | (b)1,272 | 51 | 235 | 63 | 71 | 1 | 15 | 2,290 |
| Non-government schools— | | | | | | | | | |
| Baptist— | | | | | | | | | |
| Full-time | .. | 118 | .. | (d)25 | .. | .. | .. | .. | 143 |
| Part-time— | | | | | | | | | |
| Number | .. | 45 | .. | (d)6 | .. | .. | .. | .. | 51 |
| Eq. f.t.u.(c) | .. | 18 | .. | (d)1 | .. | .. | .. | .. | 19 |
| Church of England— | | | | | | | | | |
| Full-time | 767 | 895 | 281 | 232 | 212 | 102 | .. | 77 | 2,566 |
| Part-time— | | | | | | | | | |
| Number | 220 | 219 | 58 | 68 | 52 | 37 | .. | 21 | 675 |
| Eq. f.t.u.(c) | 95 | 68 | 21 | 30 | 13 | 6 | .. | 18 | 251 |
| Hebrew— | | | | | | | | | |
| Full-time | 25 | 146 | .. | .. | 6 | .. | .. | .. | 177 |
| Part-time— | | | | | | | | | |
| Number | 8 | 32 | .. | .. | 1 | .. | .. | .. | 41 |
| Eq. f.t.u.(c) | 4 | 9 | .. | .. | 1 | .. | .. | .. | 14 |
| Lutheran— | | | | | | | | | |
| Full-time | 16 | 33 | 41 | 66 | .. | .. | 5 | .. | 161 |
| Part-time— | | | | | | | | | |
| Number | 6 | 5 | 8 | 25 | .. | .. | .. | .. | 44 |
| Eq. f.t.u.(c) | 2 | 2 | 3 | 6 | .. | .. | .. | .. | 13 |
| Methodist— | | | | | | | | | |
| Full-time | 162 | 229 | (e)99 | 103 | 90 | 19 | 15 | .. | 717 |
| Part-time— | | | | | | | | | |
| Number | 51 | 56 | (e)25 | 26 | 28 | 8 | .. | .. | 194 |
| Eq. f.t.u.(c) | 29 | 7 | (e)10 | 12 | 11 | 5 | .. | .. | 74 |
| Presbyterian— | | | | | | | | | |
| Full-time | 331 | 505 | 51 | 73 | 74 | 35 | .. | .. | 1,069 |
| Part-time— | | | | | | | | | |
| Number | 71 | 118 | 12 | 18 | 10 | 14 | .. | .. | 243 |
| Eq. f.t.u.(c) | 32 | 21 | 2 | 9 | 3 | 4 | .. | .. | 71 |
| Roman Catholic— | | | | | | | | | |
| Full-time | 5,332 | 3,857 | 2,033 | 751 | 924 | 308 | 41 | 192 | 13,438 |
| Part-time— | | | | | | | | | |
| Number | 1,500 | 839 | 477 | 215 | 138 | 83 | 1 | 42 | 3,295 |
| Eq. f.t.u.(c) | 327 | 138 | 92 | 59 | 32 | 21 | .. | 11 | 680 |
| Seventh-day Adventist— | | | | | | | | | |
| Full-time | 61 | 33 | 13 | 11 | 28 | 9 | .. | .. | 155 |
| Part-time— | | | | | | | | | |
| Number | 20 | 7 | 3 | 2 | 11 | 3 | .. | .. | 46 |
| Eq. f.t.u.(c) | 5 | 2 | .. | .. | 3 | .. | .. | .. | 10 |
| Other denominational— | | | | | | | | | |
| Full-time | .. | 13 | 6 | .. | 6 | 55 | 7 | .. | 87 |
| Part-time— | | | | | | | | | |
| Number | .. | 5 | .. | .. | .. | 7 | .. | .. | 12 |
| Eq. f.t.u.(c) | .. | 2 | .. | .. | .. | 4 | .. | .. | 6 |
| Undenominational— | | | | | | | | | |
| Full-time | 485 | 221 | 177 | 54 | 7 | 14 | 4 | .. | 962 |
| Part-time— | | | | | | | | | |
| Number | 100 | 62 | 24 | 36 | 3 | 3 | .. | .. | 228 |
| Eq. f.t.u.(c) | 36 | 25 | 6 | 19 | 1 | .. | .. | .. | 87 |
| Total, non-government schools— | | | | | | | | | |
| Full-time | 7,179 | 6,050 | 2,701 | 1,315 | 1,347 | 542 | (f)72 | 269 | 19,475 |
| Part-time— | | | | | | | | | |
| Number | (g)1,976 | 1,388 | 607 | 396 | 243 | 155 | (f)1 | (g)63 | 4,829 |
| Eq. f.t.u.(c) | 530 | 292 | 134 | 136 | 64 | 40 | .. | 29 | 1,225 |
| Grand total— | | | | | | | | | |
| Full-time | 36,467 | 28,194 | 12,808 | 9,984 | 6,966 | 3,847 | 451 | 1,014 | 99,731 |
| Part-time— | | | | | | | | | |
| Number | 3,154 | 3,617 | 1,237 | 1,046 | 417 | 471 | 7 | 95 | 10,044 |
| Eq. f.t.u.(c) | 1,112 | 1,564 | 185 | 371 | 127 | 111 | 1 | 44 | 3,515 |

(a) Excludes teachers-in-training generally. (b) If a full-time teacher teaches both senior and junior technical school pupils, he is counted as part-time in these statistics (which include junior technical, but not senior technical, schools), if his teaching load in the junior school is less than 75 per cent. (c) For bases of calculating equivalent full-time units of part-time teaching see footnote (b) on page 511. (d) Baptist and Congregational. (e) Schools conducted by the Presbyterian and Methodist Schools Association. (f) Excludes unqualified teachers and teaching assistants at mission schools. (g) Visiting teachers who attend more than one school are counted as part-time in each.

NUMBERS OF TEACHERS: GOVERNMENT AND NON-GOVERNMENT SCHOOLS(a)
STATES AND TERRITORIES, 1963 TO 1967

| | Government schools | | | Non-government schools | | | All schools | | |
|--------------------------------------|------------------------------|--------------------|---------------|------------------------------|--------------------|---------------|------------------------------|--------------------|---------------|
| | Number of full-time teachers | Part-time teachers | | Number of full-time teachers | Part-time teachers | | Number of full-time teachers | Part-time teachers | |
| | | Number | Eq.f.t.u. (b) | | Number | Eq.f.t.u. (b) | | Number | Eq.f.t.u. (b) |
| New South Wales— | | | | | | | | | |
| 1963 | | (c)24,672 | | 6,215 (d) | 1,586 | n.a. | n.a. | n.a. | n.a. |
| 1964 | | (c)25,993 | | 6,541 (d) | 1,621 | n.a. | n.a. | n.a. | n.a. |
| 1965 | 26,846 | 878 | 415 | 6,842 (d) | 1,743 | 443 | 33,688 | 2,621 | 858 |
| 1966 | 27,898 | 1,056 | 520 | 6,717 (d) | 1,821 | 471 | 34,615 | 2,877 | 991 |
| 1967 | 29,288 | 1,178 | 582 | 7,179 (d) | 1,976 | 530 | 36,467 | 3,154 | 1,112 |
| Victoria— | | | | | | | | | |
| 1963 | 17,373 (e) | 1,668 | n.a. | 5,038 | 978 | n.a. | 22,411 | 2,646 | n.a. |
| 1964 | 19,026 (e) | 1,568 | n.a. | 5,326 | 1,004 | n.a. | 24,352 | 2,572 | n.a. |
| 1965 | 20,083 (e) | 1,816 | 1,134 | 5,551 | 1,149 | 278 | 25,634 | 2,965 | 1,412 |
| 1966 | 20,788 (e) | 2,275 | 1,357 | 5,854 | 1,237 | 313 | 26,642 | 3,512 | 1,670 |
| 1967 | 22,144 (e) | 2,229 | 1,272 | 6,050 | 1,388 | 292 | 28,194 | 3,617 | 1,564 |
| Queensland— | | | | | | | | | |
| 1963 | 8,810 | 854 | n.a. | 2,333 | 468 | n.a. | 11,143 | 1,322 | n.a. |
| 1964 | 9,058 | 819 | n.a. | 2,472 | 539 | n.a. | 11,530 | 1,358 | n.a. |
| 1965 | 9,316 | 696 | 56 | 2,543 | 492 | 107 | 11,859 | 1,188 | 163 |
| 1966 | 9,637 | 677 | 54 | 2,649 | 568 | 131 | 12,286 | 1,245 | 185 |
| 1967 | 10,107 | 630 | 51 | 2,701 | 607 | 134 | 12,808 | 1,237 | 185 |
| South Australia— | | | | | | | | | |
| 1963 | 6,895 | 431 | n.a. | 1,165 | 319 | n.a. | 8,060 | 750 | n.a. |
| 1964 | 7,340 | 477 | n.a. | 1,231 | 329 | n.a. | 8,571 | 806 | n.a. |
| 1965 | 7,872 | 468 | 143 | 1,252 | 355 | 114 | 9,124 | 823 | 257 |
| 1966 | 8,189 | 481 | 174 | 1,306 | 371 | 116 | 9,495 | 852 | 290 |
| 1967 | 8,669 | 650 | 235 | 1,315 | 396 | 136 | 9,984 | 1,046 | 371 |
| Western Australia— | | | | | | | | | |
| 1963 | 4,471 | 74 | 17 | 1,148 | n.a. | 44 | 5,619 | n.a. | 61 |
| 1964 | 4,713 | 103 | 16 | 1,188 | 141 | 32 | 5,901 | 244 | 48 |
| 1965 | 5,009 | 119 | 39 | 1,255 | 186 | 46 | 6,264 | 305 | 85 |
| 1966 | 5,298 | 135 | 39 | 1,278 | 221 | 67 | 6,576 | 356 | 106 |
| 1967 | 5,619 | 174 | 63 | 1,347 | 243 | 64 | 6,966 | 417 | 127 |
| Tasmania— | | | | | | | | | |
| 1963 | 2,919 | 183 | n.a. | 509 | 85 | n.a. | 3,428 | 268 | n.a. |
| 1964 | 3,016 | 141 | n.a. | 503 | 132 | n.a. | 3,519 | 273 | n.a. |
| 1965 | 3,131 | 194 | 55 | 509 | 157 | 29 | 3,640 | 351 | 84 |
| 1966 | 3,183 | 279 | 69 | 523 | 164 | 35 | 3,706 | 443 | 104 |
| 1967 | 3,305 | 316 | 71 | 542 | 155 | 40 | 3,847 | 471 | 111 |
| Northern Territory— | | | | | | | | | |
| 1963 | 207 | 4 | n.a. | (f) 68 | 1 | n.a. | 275 | 5 | n.a. |
| 1964 | 241 | 6 | n.a. | (f) 63 | .. | n.a. | 304 | 6 | n.a. |
| 1965 | 281 | 4 | 1 | (f) 72 | 1 | .. | 353 | 5 | 1 |
| 1966 | 340 | 13 | 2 | (f) 75 | .. | .. | 415 | 13 | 2 |
| 1967 | 379 | 6 | 1 | (f) 72 | (f) 1 | .. | 451 | 7 | 1 |
| Australian Capital Territory— | | | | | | | | | |
| 1963 | | (c) 476 | | 183 (d) | 18 | n.a. | n.a. | n.a. | n.a. |
| 1964 | | (c) 554 | | 215 (d) | 27 | n.a. | n.a. | n.a. | n.a. |
| 1965 | 596 | 34 | 24 | 240 (d) | 28 | 6 | 836 | 62 | 30 |
| 1966 | 695 | 16 | 9 | 261 (d) | 41 | 13 | 956 | 57 | 22 |
| 1967 | 745 | 32 | 15 | 269 (d) | 63 | 29 | 1,014 | 95 | 44 |

(a) Excludes teachers-in-training generally. (b) For basis of calculating equivalent full-time units for part-time teachers see footnote (b) on page 511. (c) Includes numbers of full-time teachers (including casual teachers) and part-time casual teachers expressed in equivalent full-time units. (d) Visiting teachers who attend more than one school are counted as part-time in each school visited. (e) If a full-time teacher teaches both senior and junior technical school pupils, he is counted as part-time in these statistics (which include junior technical, but not senior technical, schools) if his teaching load in the junior school is less than 75 per cent. (f) Excludes unqualified teachers and teaching assistants at mission schools.

Ages of pupils

The ages of pupils at school census dates for 1967 and earlier years are shown in the following tables.

**GOVERNMENT AND NON-GOVERNMENT SCHOOLS: PUPILS, BY AGE AND SEX
AUSTRALIA, 1967**
(Census enrolment)

| Age last birthday (years) | Government schools | | | Non-government schools | | | Total | | |
|------------------------------|--------------------|---------|-----------|------------------------|---------|---------|-----------|-----------|-----------|
| | Boys | Girls | Total | Boys | Girls | Total | Boys | Girls | Total(a) |
| Under 6 | 84,133 | 79,653 | 163,786 | 21,250 | 21,501 | 42,751 | 105,383 | 101,154 | 206,537 |
| 6 | 99,403 | 92,876 | 192,279 | 26,126 | 25,968 | 52,094 | 125,529 | 118,844 | 244,373 |
| 7 | 96,563 | 90,733 | 187,296 | 25,916 | 26,219 | 52,135 | 122,479 | 116,952 | 239,431 |
| 8 | 95,592 | 90,089 | 185,681 | 25,987 | 26,113 | 52,100 | 121,579 | 116,202 | 237,781 |
| 9 | 93,791 | 87,965 | 181,756 | 25,307 | 25,984 | 51,291 | 119,098 | 113,949 | 233,047 |
| 10 | 92,362 | 86,108 | 178,470 | 25,093 | 25,946 | 51,039 | 117,455 | 112,054 | 229,509 |
| 11 | 91,631 | 83,974 | 175,605 | 24,979 | 25,837 | 50,816 | 116,610 | 109,811 | 226,421 |
| 12 | 88,529 | 81,594 | 170,123 | 25,075 | 26,838 | 51,913 | 113,604 | 108,432 | 222,036 |
| 13 | 87,029 | 79,487 | 166,516 | 23,688 | 26,801 | 50,489 | 110,717 | 106,288 | 217,005 |
| 14 | 86,672 | 78,113 | 164,785 | 22,838 | 26,343 | 49,181 | 109,510 | 104,456 | 213,966 |
| 15 | 65,497 | 54,573 | 120,070 | 19,744 | 21,053 | 40,797 | 85,241 | 75,626 | 160,867 |
| 16 | 38,112 | 27,492 | 65,604 | 14,848 | 13,686 | 28,534 | 52,960 | 41,178 | 94,138 |
| 17 | 19,627 | 12,268 | 31,895 | 9,703 | 7,036 | 16,739 | 29,330 | 19,304 | 48,634 |
| 18 and over | 6,856 | 2,830 | 9,686 | 3,542 | 1,366 | 4,908 | 10,398 | 4,196 | 14,594 |
| Total. | 1,045,797 | 947,755 | 1,993,552 | 294,096 | 300,691 | 594,787 | 1,339,893 | 1,248,446 | 2,588,339 |

(a) Includes Aboriginal children.

SCHOOLS: PUPILS, BY AGE, STATES AND TERRITORIES, 1967
(Census enrolment)

| Age last birthday (years) | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | A.C.T. | Aust.(a) |
|------------------------------|---------|---------|---------|---------|---------|--------|--------|--------|-----------|
| Under 6 | 86,192 | 62,160 | 20,349 | 19,190 | 7,880 | 6,885 | 1,182 | 2,699 | 206,537 |
| 6 | 86,124 | 66,831 | 36,082 | 23,512 | 19,083 | 8,686 | 1,407 | 2,648 | 244,373 |
| 7 | 84,148 | 65,101 | 35,654 | 23,365 | 18,964 | 8,452 | 1,251 | 2,496 | 239,431 |
| 8 | 83,456 | 65,659 | 34,949 | 23,000 | 18,710 | 8,326 | 1,248 | 2,433 | 237,781 |
| 9 | 81,844 | 63,679 | 34,731 | 22,438 | 18,631 | 8,215 | 1,129 | 2,380 | 233,047 |
| 10 | 80,351 | 62,948 | 34,104 | 22,424 | 18,428 | 7,982 | 1,048 | 2,224 | 229,509 |
| 11 | 78,631 | 62,416 | 33,335 | 21,955 | 18,832 | 8,159 | 1,015 | 2,078 | 226,421 |
| 12 | 77,484 | 60,510 | 33,399 | 21,779 | 18,337 | 7,624 | 986 | 1,917 | 222,036 |
| 13 | 75,928 | 59,281 | 32,520 | 21,620 | 17,395 | 7,394 | 877 | 1,990 | 217,005 |
| 14 | 75,642 | 58,524 | 30,944 | 21,554 | 17,150 | 7,564 | 641 | 1,947 | 213,966 |
| 15 | 54,498 | 46,947 | 22,070 | 17,233 | 12,251 | 5,840 | 467 | 1,561 | 160,867 |
| 16 | 31,241 | 31,564 | 11,104 | 10,791 | 5,554 | 2,599 | 233 | 1,052 | 94,138 |
| 17 | 18,507 | 15,619 | 5,471 | 4,371 | 2,762 | 1,090 | 89 | 725 | 48,634 |
| 18 and over | 6,019 | 4,564 | 1,578 | 1,061 | 732 | 362 | 25 | 253 | 14,594 |
| Total. | 920,065 | 725,803 | 366,290 | 254,293 | 194,709 | 89,178 | 11,598 | 26,403 | 2,588,339 |

(a) Includes Aboriginal children.

SCHOOLS: PUPILS, BY AGE AND SEX, AUSTRALIA, 1963 TO 1967
(Census enrolment)

| Age last birthday (years) | 1963 | | 1964 | | 1965 (b) | | 1966 (b) | | 1967 (b) | |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Boys | Girls | Boys | Girls | Boys | Girls | Boys | Girls | Boys | Girls |
| Under 6 | 95,454 | 91,544 | 97,651 | 93,404 | 100,399 | 95,811 | 104,222 | 99,495 | 105,383 | 101,154 |
| 6 | 112,486 | 107,528 | 114,888 | 109,812 | 118,565 | 113,600 | 120,709 | 114,770 | 125,529 | 118,844 |
| 7 | 112,251 | 105,595 | 113,685 | 108,423 | 116,512 | 111,748 | 120,392 | 115,466 | 122,479 | 116,952 |
| 8 | 109,026 | 104,940 | 111,882 | 106,358 | 114,660 | 109,538 | 117,903 | 112,841 | 121,579 | 116,202 |
| 9 | 106,932 | 102,944 | 109,601 | 105,826 | 113,810 | 107,719 | 115,761 | 110,778 | 119,098 | 113,949 |
| 10 | 109,020 | 104,124 | 108,446 | 103,905 | 111,359 | 107,105 | 115,380 | 108,806 | 117,455 | 112,054 |
| 11 | 107,441 | 102,169 | 109,593 | 105,228 | 110,026 | 104,874 | 112,832 | 107,872 | 116,610 | 109,811 |
| 12 | 105,461 | 101,110 | 107,342 | 102,220 | 110,091 | 105,816 | 110,945 | 105,536 | 113,604 | 108,432 |
| 13 | 104,744 | 99,760 | 105,434 | 100,668 | 107,850 | 102,728 | 111,659 | 106,397 | 110,717 | 106,288 |
| 14 | 93,578 | 87,336 | 99,617 | 94,053 | 101,907 | 97,432 | 105,962 | 100,241 | 109,510 | 104,456 |
| 15 | 71,323 | 59,772 | 71,619 | 61,317 | 77,735 | 68,958 | 80,972 | 72,015 | 85,241 | 75,626 |
| 16 | 44,182 | 32,741 | 43,843 | 33,045 | 46,095 | 35,604 | 49,666 | 38,554 | 52,950 | 41,178 |
| 17 | 17,709 | 10,117 | 22,826 | 13,642 | 22,624 | 13,936 | 22,008 | 13,207 | 29,330 | 19,304 |
| 18 and over | 5,428 | 1,693 | 7,072 | 2,290 | 8,249 | 2,901 | 7,279 | 2,662 | 10,398 | 4,196 |
| Not stated(a) | 1,412 | 1,477 | 1,549 | 1,540 | .. | .. | .. | .. | .. | .. |
| Total. | 1,196,447 | 1,112,850 | 1,225,048 | 1,141,731 | 1,259,882 | 1,177,770 | 1,295,690 | 1,208,640 | 1,339,893 | 1,248,446 |

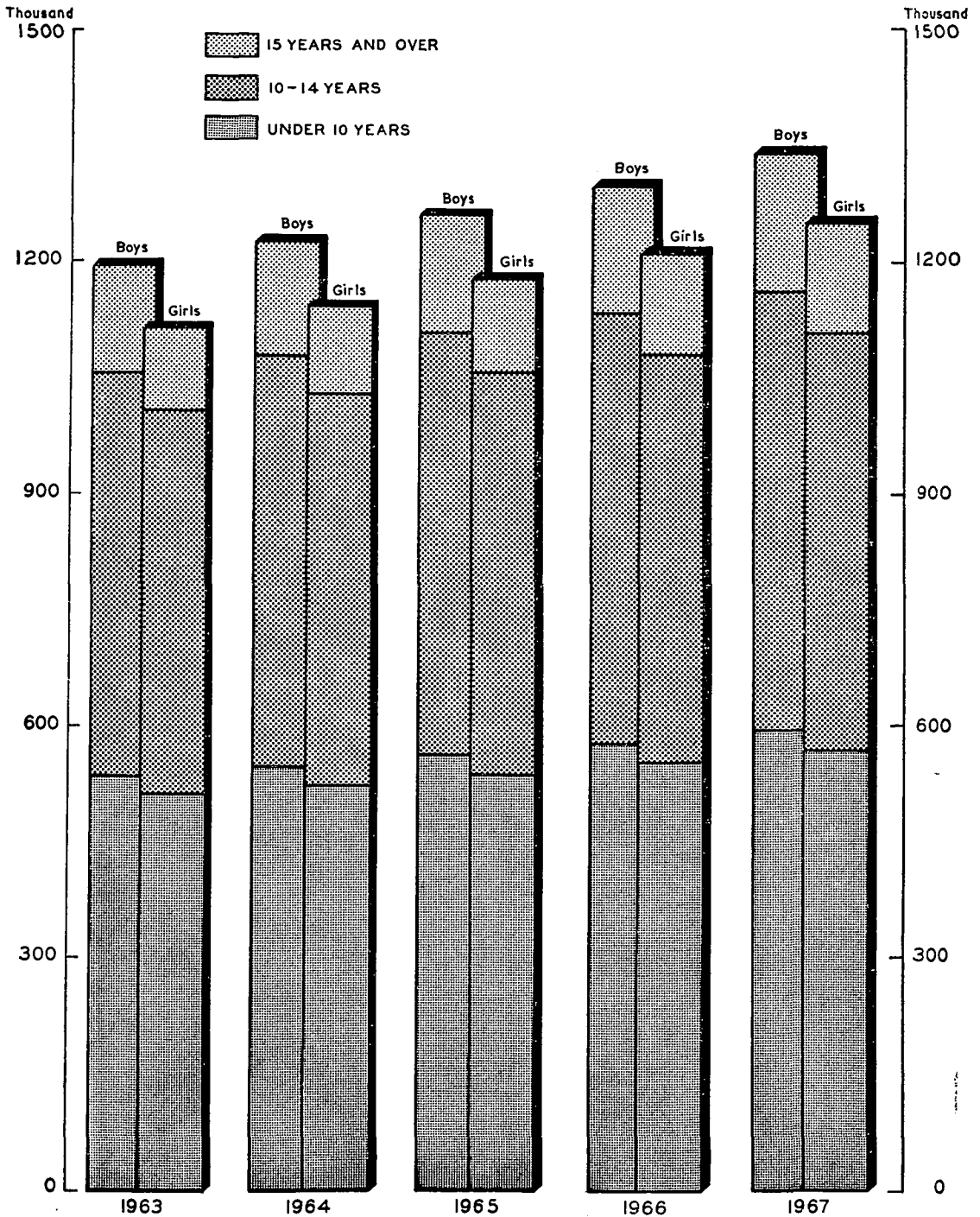
(a) Comprises Aboriginal children at special schools whose ages were not collected. (b) Aboriginal children included in specified age groups.

Grades of pupils

The numbers of pupils enrolled in grades in each State and Territory are shown in the following table. The grading of pupils differs for the various school systems in Australia because of the differences in curricula set by education departments. In addition, the methods of allocating classes to

SCHOOL PUPILS, BY AGE GROUP: AUSTRALIA

1963 TO 1967



grades vary from State to State, and there are also differences in the administrative methods of aggregating grades of a more or less similar nature. The figures presented in the table represent essentially the system of grading adopted in each different State and are therefore not comparable between States. Pupils not allocated to grades (i.e. physically, mentally, or socially handicapped children) are shown as being in special grades or schools or as 'ungraded'. However, the numbers shown in special grades or ungraded should not be taken as the total number of handicapped pupils in a State because some handicapped children are included in normal grades.

GOVERNMENT AND NON-GOVERNMENT SCHOOLS: PUPILS, BY GRADE, ETC.
AND SEX, STATES AND TERRITORIES, 1967

| Grade, year or form | Government schools | | | Non-government schools | | | All schools | | |
|-----------------------------|--------------------|---------|---------|------------------------|---------|---------|-------------|---------|---------|
| | Boys | Girls | Total | Boys | Girls | Total | Boys | Girls | Total |
| NEW SOUTH WALES | | | | | | | | | |
| Infants— | | | | | | | | | |
| Kindergarten | 36,250 | 33,881 | 70,131 | 10,548 | 10,325 | 20,873 | 46,798 | 44,206 | 91,004 |
| 1 | 40,544 | 36,694 | 77,238 | 10,651 | 10,346 | 20,997 | 51,195 | 47,040 | 98,235 |
| 2 | 35,468 | 33,144 | 68,612 | 10,212 | 10,146 | 20,358 | 45,680 | 43,290 | 88,970 |
| Primary— | | | | | | | | | |
| 3 | 33,641 | 31,958 | 65,599 | 9,888 | 9,739 | 19,627 | 43,529 | 41,697 | 85,226 |
| 4 | 33,368 | 31,454 | 64,822 | 9,767 | 10,017 | 19,784 | 43,135 | 41,471 | 84,606 |
| 5 | 32,683 | 30,372 | 63,055 | 9,575 | 9,613 | 19,188 | 42,258 | 39,985 | 82,243 |
| 6 | 31,444 | 30,121 | 61,565 | 9,498 | 9,785 | 19,283 | 40,942 | 39,906 | 80,848 |
| Special primary grades(a) | 4,413 | 2,951 | 7,364 | 1,084 | 932 | 2,016 | 5,497 | 3,883 | 9,380 |
| Secondary— | | | | | | | | | |
| Form I (or 7) | 31,841 | 29,438 | 61,279 | 9,071 | 9,588 | 18,659 | 40,912 | 39,026 | 79,938 |
| Form II (or 8) | 30,406 | 28,265 | 58,671 | 8,425 | 9,325 | 17,750 | 38,831 | 37,590 | 76,421 |
| Form III (or 9) | 16,494 | 13,833 | 30,327 | 6,634 | 6,412 | 13,046 | 23,128 | 20,245 | 43,373 |
| Form IV | 23,815 | 21,772 | 45,587 | 7,958 | 8,633 | 16,591 | 31,773 | 30,405 | 62,178 |
| Form V | 8,224 | 5,632 | 13,856 | 3,841 | 2,840 | 6,681 | 12,065 | 8,472 | 20,537 |
| Form VI | 6,641 | 4,347 | 10,988 | 3,135 | 2,068 | 5,203 | 9,776 | 6,415 | 16,191 |
| Special secondary grades(a) | 732 | 183 | 915 | .. | .. | .. | 732 | 183 | 915 |
| Total | 365,964 | 334,045 | 700,009 | 110,287 | 109,769 | 220,056 | 476,251 | 443,814 | 920,065 |
| VICTORIA | | | | | | | | | |
| Primary— | | | | | | | | | |
| 1(b) | 55,008 | 50,325 | 105,333 | 15,189 | 15,243 | 30,432 | 70,197 | 65,568 | 135,765 |
| 2 | 25,686 | 23,648 | 49,334 | 8,532 | 8,431 | 16,963 | 34,218 | 32,079 | 66,297 |
| 3 | 25,194 | 23,367 | 48,561 | 8,541 | 8,341 | 16,882 | 33,735 | 31,708 | 65,443 |
| 4 | 24,468 | 22,922 | 47,390 | 8,144 | 8,204 | 16,348 | 32,612 | 31,126 | 63,738 |
| 5 | 24,261 | 22,526 | 46,787 | 8,055 | 8,269 | 16,324 | 32,316 | 30,795 | 63,111 |
| 6 | 24,010 | 22,133 | 46,143 | 8,133 | 8,412 | 16,545 | 32,143 | 30,545 | 62,688 |
| Ungraded(a) | 1,490 | 870 | 2,360 | 125 | 159 | 284 | 1,615 | 1,029 | 2,644 |
| Secondary— | | | | | | | | | |
| 7 or I | 24,916 | 22,134 | 47,050 | 7,074 | 8,280 | 15,354 | 31,990 | 30,414 | 62,404 |
| 8 or II | 24,066 | 21,128 | 45,194 | 6,507 | 8,157 | 14,664 | 30,573 | 29,285 | 59,858 |
| III | 22,898 | 19,313 | 42,211 | 6,173 | 7,589 | 13,762 | 29,071 | 26,902 | 55,973 |
| IV | 17,980 | 14,637 | 32,617 | 5,691 | 6,623 | 12,314 | 23,671 | 21,260 | 44,931 |
| V | 11,393 | 8,364 | 19,757 | 4,733 | 4,992 | 9,725 | 16,126 | 13,356 | 29,482 |
| VI | 4,351 | 3,193 | 7,544 | 3,436 | 2,489 | 5,925 | 7,787 | 5,682 | 13,469 |
| Total | 285,721 | 254,560 | 540,281 | 90,333 | 95,189 | 185,522 | 376,054 | 349,749 | 725,803 |
| QUEENSLAND | | | | | | | | | |
| Primary— | | | | | | | | | |
| Preparatory | 33 | 18 | 51 | 312 | 305 | 617 | 345 | 323 | 668 |
| 1 | 17,465 | 15,656 | 33,121 | 4,661 | 4,310 | 8,971 | 22,126 | 19,966 | 42,092 |
| 2 | 15,477 | 14,482 | 29,959 | 4,246 | 4,155 | 8,401 | 19,723 | 18,637 | 38,360 |
| 3 | 15,082 | 13,910 | 28,992 | 3,995 | 4,049 | 8,044 | 19,077 | 17,959 | 37,036 |
| 4 | 14,621 | 13,482 | 28,103 | 3,700 | 3,678 | 7,378 | 18,321 | 17,160 | 35,481 |
| 5 | 14,314 | 13,507 | 27,821 | 3,670 | 3,667 | 7,337 | 17,984 | 17,174 | 35,158 |
| 6 | 14,282 | 13,024 | 27,306 | 3,631 | 3,765 | 7,396 | 17,913 | 16,789 | 34,702 |
| 7 | 13,394 | 12,827 | 26,221 | 3,791 | 3,906 | 7,697 | 17,185 | 16,733 | 33,918 |
| Ungraded(a) | 1,330 | 685 | 2,015 | 37 | 34 | 71 | 1,367 | 719 | 2,086 |
| Secondary— | | | | | | | | | |
| 8 | 12,484 | 11,521 | 24,005 | 3,986 | 4,251 | 8,237 | 16,470 | 15,772 | 32,242 |
| 9 | 11,943 | 11,133 | 23,076 | 3,902 | 4,263 | 8,165 | 15,845 | 15,396 | 31,241 |
| 10 | 10,060 | 9,039 | 19,099 | 3,712 | 3,630 | 7,342 | 13,772 | 12,669 | 26,441 |
| 11 | 2,968 | 2,204 | 5,172 | 2,134 | 1,694 | 3,828 | 5,102 | 3,898 | 9,000 |
| 12 | 2,617 | 1,804 | 4,421 | 2,011 | 1,433 | 3,444 | 4,628 | 3,237 | 7,865 |
| Total | 146,070 | 133,292 | 279,362 | 43,788 | 43,140 | 86,928 | 189,858 | 176,432 | 366,290 |

(a) Pupils at special schools and in special classes at ordinary schools. (b) In Victoria children who are expected to reach five years of age by 1 July are admitted at the beginning of the school year. The younger children may not reach grade 2 until they have been at school for two years.

GOVERNMENT AND NON-GOVERNMENT SCHOOLS: PUPILS, BY GRADE, ETC.
AND SEX, STATES, ETC., 1967—continued

| Grade, year or form | Government schools | | | Non-government schools | | | All schools | | |
|------------------------|--------------------|---------|---------|------------------------|--------|--------|-------------|---------|---------|
| | Boys | Girls | Total | Boys | Girls | Total | Boys | Girls | Total |
| SOUTH AUSTRALIA | | | | | | | | | |
| Pre-primary | .. | .. | .. | 112 | 145 | 257 | 112 | 145 | 257 |
| Primary— | | | | | | | | | |
| Kindergarten | 2,243 | 2,153 | 4,396 | .. | .. | .. | 2,243 | 2,153 | 4,396 |
| I | 12,943 | 11,910 | 24,853 | 1,924 | 1,920 | 3,844 | 14,867 | 13,830 | 28,697 |
| II | 11,231 | 10,339 | 21,570 | 1,562 | 1,693 | 3,255 | 12,793 | 12,032 | 24,825 |
| III | 10,840 | 10,210 | 21,050 | 1,544 | 1,678 | 3,222 | 12,384 | 11,888 | 24,272 |
| IV | 10,620 | 9,756 | 20,376 | 1,502 | 1,696 | 3,198 | 12,122 | 11,452 | 23,574 |
| V | 10,488 | 9,912 | 20,400 | 1,569 | 1,675 | 3,244 | 12,057 | 11,587 | 23,644 |
| VI | 10,202 | 9,772 | 19,974 | 1,614 | 1,728 | 3,342 | 11,816 | 11,500 | 23,316 |
| VII | 9,936 | 9,220 | 19,156 | 1,694 | 1,706 | 3,400 | 11,630 | 10,926 | 22,556 |
| Ungraded(a) | 1,358 | 841 | 2,199 | 13 | 15 | 28 | 1,371 | 856 | 2,227 |
| Secondary— | | | | | | | | | |
| VIII or 1st | 10,237 | 9,444 | 19,681 | 1,558 | 1,726 | 3,284 | 11,795 | 11,170 | 22,965 |
| IX or 2nd | 9,237 | 8,478 | 17,715 | 1,539 | 1,685 | 3,224 | 10,776 | 10,163 | 20,939 |
| X or 3rd | 8,204 | 7,314 | 15,518 | 1,516 | 1,696 | 3,212 | 9,720 | 9,010 | 18,730 |
| XI or 4th | 4,390 | 3,340 | 7,730 | 1,270 | 1,150 | 2,420 | 5,660 | 4,490 | 10,150 |
| 5th | 1,500 | 842 | 2,342 | 866 | 463 | 1,329 | 2,366 | 1,305 | 3,671 |
| Ungraded(b) | 52 | 22 | 74 | .. | .. | .. | 52 | 22 | 74 |
| Total | 113,481 | 103,553 | 217,034 | 18,283 | 18,976 | 37,259 | 131,764 | 122,529 | 254,293 |

WESTERN AUSTRALIA

| | | | | | | | | | |
|--------------------|--------|--------|---------|--------|--------|--------|---------|--------|---------|
| Primary— | | | | | | | | | |
| Kindergarten | .. | .. | .. | 173 | 200 | 373 | 173 | 200 | 373 |
| 1 | 9,040 | 8,058 | 17,098 | 1,978 | 1,996 | 3,974 | 11,018 | 10,054 | 21,072 |
| 2 | 8,281 | 7,655 | 15,936 | 1,790 | 1,887 | 3,677 | 10,071 | 9,542 | 19,613 |
| 3 | 8,018 | 7,514 | 15,532 | 1,681 | 1,796 | 3,477 | 9,699 | 9,310 | 19,009 |
| 4 | 7,773 | 7,251 | 15,024 | 1,576 | 1,795 | 3,371 | 9,349 | 9,046 | 18,395 |
| 5 | 8,024 | 7,285 | 15,309 | 1,551 | 1,756 | 3,307 | 9,575 | 9,041 | 18,616 |
| 6 | 7,995 | 7,022 | 15,017 | 1,467 | 1,781 | 3,248 | 9,462 | 8,803 | 18,265 |
| 7 | 7,644 | 7,154 | 14,798 | 1,590 | 1,901 | 3,491 | 9,234 | 9,055 | 18,289 |
| Special classes(c) | 835 | 379 | 1,214 | .. | .. | .. | 835 | 379 | 1,214 |
| Secondary— | | | | | | | | | |
| 1 | 7,065 | 6,469 | 13,534 | 1,913 | 2,190 | 4,103 | 8,978 | 8,659 | 17,637 |
| 2 | 6,968 | 6,339 | 13,307 | 1,720 | 2,130 | 3,850 | 8,688 | 8,469 | 17,157 |
| 3 | 5,911 | 5,408 | 11,319 | 1,544 | 1,892 | 3,436 | 7,455 | 7,300 | 14,755 |
| 4 | 1,802 | 1,442 | 3,244 | 951 | 922 | 1,873 | 2,753 | 2,364 | 5,117 |
| 5 | 1,321 | 873 | 2,194 | 822 | 726 | 1,548 | 2,143 | 1,599 | 3,742 |
| Special classes(c) | 335 | 200 | 535 | .. | .. | .. | 335 | 200 | 535 |
| Special schools(c) | 546 | 368 | 914 | 4 | 2 | 6 | 550 | 370 | 920 |
| Total | 81,558 | 73,417 | 154,975 | 18,760 | 20,974 | 39,734 | 100,318 | 94,391 | 194,709 |

TASMANIA

| | | | | | | | | | |
|--------------------|--------|--------|--------|-------|-------|--------|--------|--------|--------|
| Pre-school | 1,343 | 1,289 | 2,632 | 41 | 45 | 86 | 1,384 | 1,334 | 2,718 |
| Primary— | | | | | | | | | |
| Kindergarten(c) | 1,164 | 1,116 | 2,280 | 410 | 384 | 794 | 1,574 | 1,500 | 3,074 |
| 1 | 5,011 | 4,458 | 9,469 | 776 | 747 | 1,523 | 5,787 | 5,205 | 10,992 |
| 2 | 3,714 | 3,584 | 7,298 | 592 | 606 | 1,198 | 4,306 | 4,190 | 8,496 |
| 3 | 3,781 | 3,484 | 7,265 | 583 | 659 | 1,242 | 4,364 | 4,143 | 8,507 |
| 4 | 3,610 | 3,322 | 6,932 | 607 | 614 | 1,221 | 4,217 | 3,936 | 8,153 |
| 5 | 3,655 | 3,387 | 7,042 | 544 | 671 | 1,215 | 4,199 | 4,058 | 8,257 |
| 6 | 3,547 | 3,362 | 6,909 | 641 | 706 | 1,347 | 4,188 | 4,068 | 8,256 |
| Secondary— | | | | | | | | | |
| I | 3,445 | 3,213 | 6,658 | 696 | 750 | 1,446 | 4,141 | 3,963 | 8,104 |
| II | 3,234 | 3,131 | 6,365 | 645 | 736 | 1,381 | 3,879 | 3,867 | 7,746 |
| III | 3,069 | 2,897 | 5,966 | 655 | 743 | 1,398 | 3,724 | 3,640 | 7,364 |
| IV | 1,696 | 1,491 | 3,187 | 581 | 605 | 1,186 | 2,277 | 2,096 | 4,373 |
| V | 474 | 418 | 892 | 278 | 274 | 552 | 752 | 692 | 1,444 |
| VI | 376 | 213 | 589 | 187 | 118 | 305 | 563 | 331 | 894 |
| Special schools(d) | 473 | 308 | 781 | .. | 19 | 19 | 473 | 327 | 800 |
| Total | 38,592 | 35,673 | 74,265 | 7,236 | 7,677 | 14,913 | 45,828 | 43,350 | 89,178 |

(a) Relates to occupation centres, opportunity classes, speech and hearing classes, and children in schools at spastic centres. (b) Speech and hearing classes. (c) In comparison with previous years' statistics numbers in kindergarten grade show an increase and grade 1 a decrease because of re-allocations between these grades. (d) For physically and mentally handicapped or delinquent children.

GOVERNMENT AND NON-GOVERNMENT SCHOOLS: PUPILS, BY GRADE, ETC.
AND SEX, STATES, ETC., 1967—continued

| Grade, year or form | Government schools | | | Non-government schools | | | All schools | | |
|-------------------------------------|--------------------|--------------|---------------|------------------------|--------------|--------------|---------------|---------------|---------------|
| | Boys | Girls | Total | Boys | Girls | Total | Boys | Girls | Total |
| NORTHERN TERRITORY | | | | | | | | | |
| Primary— | | | | | | | | | |
| Kindergarten | 53 | 35 | 88 | .. | .. | .. | 53 | 35 | 88 |
| I | 628 | 578 | 1,206 | 79 | 91 | 170 | 707 | 669 | 1,376 |
| II | 443 | 405 | 848 | 82 | 76 | 158 | 525 | 481 | 1,006 |
| III | 389 | 377 | 766 | 76 | 68 | 144 | 465 | 445 | 910 |
| IV | 325 | 320 | 645 | 56 | 65 | 121 | 381 | 385 | 766 |
| V | 361 | 314 | 675 | 54 | 70 | 124 | 415 | 384 | 799 |
| VI | 325 | 290 | 615 | 42 | 37 | 79 | 367 | 327 | 694 |
| VII | 284 | 287 | 571 | 54 | 50 | 104 | 338 | 337 | 675 |
| Ungraded(a) | 1,302 | 1,192 | 2,494 | 715 | 708 | 1,423 | 2,017 | 1,900 | 3,917 |
| Secondary— | | | | | | | | | |
| VIII or 1st | 234 | 225 | 459 | 20 | 28 | 48 | 254 | 253 | 507 |
| IX or 2nd | 196 | 195 | 391 | 19 | 12 | 31 | 215 | 207 | 422 |
| X or 3rd | 140 | 130 | 270 | 6 | 11 | 17 | 146 | 141 | 287 |
| XI or 4th | 70 | 47 | 117 | .. | .. | .. | 70 | 47 | 117 |
| 5th | 22 | 12 | 34 | .. | .. | .. | 22 | 12 | 34 |
| Total | 4,772 | 4,407 | 9,179 | 1,203 | 1,216 | 2,419 | 5,975 | 5,623 | 11,598 |
| AUSTRALIAN CAPITAL TERRITORY | | | | | | | | | |
| Infants— | | | | | | | | | |
| Kindergarten | 1,031 | 966 | 1,997 | 446 | 401 | 847 | 1,477 | 1,367 | 2,844 |
| 1 | 1,182 | 1,001 | 2,183 | 409 | 401 | 810 | 1,591 | 1,402 | 2,993 |
| 2 | 920 | 877 | 1,797 | 400 | 359 | 759 | 1,320 | 1,236 | 2,556 |
| Primary— | | | | | | | | | |
| 3 | 935 | 860 | 1,795 | 374 | 315 | 689 | 1,309 | 1,175 | 2,484 |
| 4 | 839 | 802 | 1,641 | 345 | 318 | 663 | 1,184 | 1,120 | 2,304 |
| 5 | 848 | 799 | 1,647 | 315 | 318 | 633 | 1,163 | 1,117 | 2,280 |
| 6 | 778 | 790 | 1,568 | 285 | 321 | 606 | 1,063 | 1,111 | 2,174 |
| Special primary grades(b) | 97 | 76 | 173 | .. | .. | .. | 97 | 76 | 173 |
| Secondary— | | | | | | | | | |
| Form I | 705 | 641 | 1,346 | 367 | 317 | 684 | 1,072 | 958 | 2,030 |
| Form II | 714 | 675 | 1,389 | 353 | 279 | 632 | 1,067 | 954 | 2,021 |
| Form III | 587 | 520 | 1,107 | 286 | 292 | 578 | 873 | 812 | 1,685 |
| Form IV | 439 | 426 | 865 | 263 | 208 | 471 | 702 | 634 | 1,336 |
| Form V | 292 | 211 | 503 | 184 | 131 | 315 | 476 | 342 | 818 |
| Form VI | 272 | 164 | 436 | 179 | 90 | 269 | 451 | 254 | 705 |
| Total | 9,639 | 8,808 | 18,447 | 4,206 | 3,750 | 7,956 | 13,845 | 12,558 | 26,403 |

(a) Relates to opportunity classes and occupation centres, and Aboriginal children at special schools at settlements, missions and on pastoral properties. (b) Pupils at special schools and in special classes at ordinary schools.

Other aspects of school education

Information relating to school medical and dental services is given in the chapter Public Health, and particulars of school savings banks in the chapter Private Finance.

Provisions for isolated areas

Although the task of bringing education to isolated areas in Australia presents problems, all education authorities have aimed at providing opportunities for country children comparable to those available to city children. Country children follow the same curricula (with local adaptation, if desirable) and are under the guidance of teachers who are trained for service in country and city schools alike.

In areas where there are sufficient children of school age a 'one-teacher' school may be formed with all primary grades in a single classroom under the control of the one teacher. Special training is given to teachers undertaking work of this kind. Children who complete a primary course in a one-teacher school and cannot attend a secondary school may do secondary correspondence lessons under the teacher's supervision.

In districts where a number of small centres are scattered around a larger centre or country town the tendency is to close the one-teacher schools and transport pupils each day by buses to a 'consolidated' school in the larger centre. Consolidated schools provide primary instruction and from two to four years of post-primary instruction. The post-primary curriculum adopted is usually directed towards practical activities and training in subjects bearing on the primary industries of the locality.

Where a group of children is too small to warrant the establishment of a one-teacher school at public expense, a 'subsidised' school may be opened. The Education Department pays part of the cost and in some States appoints a teacher. Some States also administer 'provisional' schools, which are completely financed by the Government but which are not large enough, or sufficiently assured of adequate continued attendance of pupils, to warrant classification as permanent schools.

Correspondence schools. These have been established in each State capital city to meet the needs of children whose daily attendance at school is prevented by distance between home and school, by illness or by physical disability. The correspondence schools also cater for inmates of penal institutions, Australian children overseas, pupils of other schools in which particular courses are not available, and, as well, for members of the Defence Forces and other adults completing their secondary education. Where children are involved, lessons are done with the help of a supervisor, usually a member of the child's family, and posted back to the correspondence school in the capital city, where they are corrected and returned with comments. Every endeavour is made to maintain a personal link between teacher and pupil. Correspondence schools began with primary grades only, but were soon extended to cater for secondary pupils, and it is now possible to do a complete secondary course to matriculation standard by correspondence. Each year more than 20,000 students receive all or part of their instruction by correspondence.

Schools of the air. These are intended to give the outback child of school age some of the benefits of school life and to supplement correspondence education. The schools of the air keep the various correspondence schools informed of the progress of their pupils. Using the two-way wireless equipment developed first by the Royal Flying Doctor Service, children hundred of miles apart participate in the same lesson, and teacher and pupils can talk directly with each other. The first school of the air was established in 1951 at Alice Springs in the Northern Territory; it has been followed by similar schools at Broken Hill in the far west of New South Wales; Ceduna and Port Augusta in South Australia; Charleville, Mount Isa and Charters Towers in Queensland; Meekatharra, Derby, Kalgoorlie, and Port Hedland in Western Australia; and Katherine in the Northern Territory. These twelve schools serve children in an area of a million square miles.

Handicapped children

Some provision is made for the education of physically and mentally handicapped children, both by the State authorities and by church and voluntary organisations, often working in conjunction. In some cases, where residential schools are necessary for particular groups, educational facilities and teaching staff are provided by a State education department, while a voluntary organisation provides accommodation and accepts responsibility for the general welfare of the children. Among the facilities available are: hospital schools for sick and crippled children; 'spastic centres' for cerebral palsied children; schools and classes for deaf children; schools for blind children; and special schools and classes for mentally retarded children. Special schools and classes have involved the appointment of departmental specialists, the provision of a special training course at Melbourne Teachers' College and close liaison with school health services. In some States, clinics attached to hospitals, or functioning as an independent child welfare service, handle cases of personality maladjustment and work in co-operation with the psychological services of the education departments.

Educational guidance

Each Australian State has a system of educational guidance administered by educational psychologists and backed by a system of pupil record cards. The functions of these services are to provide advice on suitability of various secondary studies for particular children, diagnosis and guidance of atypical children, preliminary guidance, and, in some States, research. The weight given to each of these functions varies from State to State, but the aim is to provide educational guidance for all children.

Throughout Australia branches of the Commonwealth Employment Service co-operate with State education departments by giving post-school vocational guidance, using the data obtained during the school careers of the children and made available by the education departments. In New South Wales a similar service is also provided by the Youth Welfare Section of the State Department of Labour and Industry.

Research

All State education departments have set up branches undertaking research directed towards departmental activities. The work of the research branches is concerned with such matters as curriculum content, new teaching methods, evaluation procedures, wastage rates and educational statistics.

School broadcasting and television

Over the years an extensive school broadcasting system has been developed in Australia by the co-operative efforts of the Australian Broadcasting Commission and education authorities. The

Australian Broadcasting Commission's Education Department is responsible for preparing and broadcasting programmes, but it draws on the advice and services of teachers and maintains permanent liaison with State education departments. In 1966, 95 per cent of Australian schools were equipped to receive radio broadcasts.

Most school broadcasts are presented as part of the regular Australian Broadcasting Commission programmes without separate stations or wave lengths. Special efforts are made to relate the broadcasts to school work by the extensive distribution of booklets, giving details of programmes in advance, and subject notes accompanied by picture sheets, work books, and teachers' notes. Broadcasting has proved to be a most effective way of reaching the outback children of Australia, and radio lessons have been designed to supplement correspondence lessons.

The year 1966 saw a further increase in the number of schools receiving television broadcasts and in the number of programmes produced. The Australian Broadcasting Commission has increased its output of school television programmes, especially instructional programmes in mathematics and science for secondary schools. Direct teaching lessons designed for the senior forms were presented. At the same time most education departments began to subsidise the purchase of television sets, and by the end of 1966, 37 per cent of schools in Australia were equipped to use educational television programmes.

Scholarships and bursaries

All States have limited schemes of financial assistance to school pupils, mostly at the secondary level, through scholarships or bursaries. As tuition in government schools is free, this assistance is usually in the form of maintenance allowances, both for children living with their parents and for those living away from home. These may be paid in a lump sum or in instalments throughout the year. Awards are usually made on the results of a competitive examination, and sometimes a means test is applied. Other government and private authorities, such as the Repatriation Department and the Legacy War Orphans Fund, assist special categories of pupils with their school education. Many non-government schools also award scholarships, on a competitive basis, which enable students to attend the particular schools without payment of fees.

In 1964 the Commonwealth Government, with the co-operation of the State Departments of Education, introduced a programme of secondary scholarships to encourage successful candidates to complete the final two years of secondary schooling. Ten thousand of these scholarships are awarded each year. Further details of the Commonwealth secondary scholarship scheme and the Commonwealth technical scholarship scheme are given on pages 549-50.

School transport

All States make some provision to cover the costs of transport for children travelling to and from school.

School buildings

The great increase in the school population in the last decade led to an expansion in school building. To cope with this growth in population, it has been necessary to make use of temporary and emergency structures. Quite large schools are being built in stages to match increases in local population in new and rapidly developing suburbs in metropolitan areas. Authorities are giving attention to the use of new materials and to the planning of sites. Gymnasiums which may also serve as assembly halls are sometimes included, and lighting, heating and ventilation to meet different climatic conditions are planned. For details of assistance provided by the Commonwealth for the building and equipping of science laboratories, *see* page 550.

Textbooks, materials and other equipment

The State education departments supply government schools, free of charge, with essential equipment, including scientific apparatus, maps, blackboards, chalk, and cleaning materials, and non-consumable equipment for commercial, home science and manual training. Garden tools and physical training equipment are also supplied in most States. Readers and writing equipment for individual pupils are sometimes supplied free in primary schools, and several education departments produce monthly school magazines which are supplied free or cheaply. In primary schools (except in one State where textbooks are made available free to children in both government and non-government primary schools) and in secondary schools, textbooks must, however, be purchased by students. In several States schools own stocks of textbooks which are hired to students, and in one State secondary textbooks are sold at reduced prices. In four States certain textbook costs are subsidised for pupils attending government and non-government schools. The parent and citizen

organisations, with the assistance of subsidies from the education departments, are usually responsible for providing equipment such as radios and television sets, film strip projectors, pianos, duplicators and, in particular, library books.

The design of school furniture is undergoing change following research on posture and the physical measurement of children. Dual desks are now being replaced in many schools by individual tables and chairs, provided in a range of sizes suitable to each class. In line with modern educational practice, the new type of furniture has been designed to allow more flexible arrangements of the classroom.

Visual aids

Visual aids are widely used in Australian education. Each of the State education departments has a visual education branch to handle the production and distribution of such materials. Film strips and posters are distributed free or at low cost. Films are held in central libraries and are requisitioned by schools as required for teaching purposes.

Pre-school education

Pre-school centres are maintained by voluntary organisations such as the Kindergarten Unions, churches, and committees of interested citizens. Over the years an increasing amount of financial assistance has been provided by State governments to approved pre-school centres so that the contributions made by parents remain at a realistic level. Grants are available for teachers' salaries and, in some areas, towards buildings and equipment.

The Australian Pre-school Association is a national body whose members are the organisations throughout Australia seeking to promote the health and welfare of young children. It aims to co-ordinate and strengthen pre-school education. It is responsible for the administration, on behalf of the Commonwealth Government, of six Lady Gowrie Child Centres for child-study and demonstration.

Pre-school centres are located in city and country areas, and programmes are adapted to meet the needs of the children attending. A typical pre-school centre provides half-day sessions for children. Crèches and day-nurseries provide full-day care in closely settled areas. In a few centres occasional or residential care is available. Pre-school centres are able to cater for only a small proportion of the children under six years of age, but radio and television have brought a form of education within the reach of practically every pre-school child in Australia. The Australian Broadcasting Commission pioneered the programme 'Kindergarten of the Air', a session of twenty-five minutes each week-day broadcast throughout the country and overseas through Radio Australia. This session was designed to reach children in isolated areas.

The half-hour television programme 'Play-school' is also available each week-day to children of kindergarten age in all State capital cities and in many country regions.

Technical education

The following description of technical education refers to training in technical fields given by institutions other than secondary schools and universities. Students may proceed to this kind of training after completing three to five years at secondary school. Each State has developed a system of technical education based on institutions set up in all the State capital cities and in some country areas. There are 3 diploma-granting institutions in New South Wales, 20 in Victoria, 7 in Queensland, 3 in South Australia, 3 in Western Australia, and 3 in Tasmania. These institutions are known variously as technical colleges, institutes of technology and schools of mines. The earliest began as local and even private ventures in the second half of the nineteenth century, but almost all of them have now come under the control of the State governments.

The technical colleges in Queensland, South Australia, Western Australia, and Tasmania are administered by branches of the State education departments. In Western Australia and South Australia the Institutes of Technology function as autonomous institutions. New South Wales has a separate State Department of Technical Education. In Victoria there is a dual system with a number of the older colleges controlled by their own 'councils' in addition to government-controlled colleges administered by the Technical Education Branch of the Education Department. The council-controlled colleges receive government grants-in-aid. Most of the diploma and other tertiary courses of technical institutions are now receiving Commonwealth financial assistance under the arrangements covering colleges of advanced education as outlined on page 546.

Australian technical colleges offer training in all the major industrial skills and in a wide variety of commercial, artistic and domestic occupations. The three main types of courses are described in the following paragraphs.

Trade courses

These offer part-time training for apprentices. In developing a system of technical education, the Australian authorities were influenced by the British tradition which regards practical experience on the job as the fundamental training procedure, to be supplemented by theoretical and practical training at an appropriate school. In each of the Australian States there is an apprenticeship authority which supervises the administration of apprenticeships, and an education authority which provides technical education through its technical colleges.

Most students who wish to become tradesmen leave school on the completion of three or four years of secondary schooling at about sixteen years of age. An increasing proportion, however, is entering at higher educational levels and receiving credit for this. On entering apprenticeship in one of the trades, the young apprentice is required to enrol in an appropriate trade course in one of the network of technical colleges in capital cities and large country towns.

The time spent on training varies from three to five years in different trades and States. Between four and eight hours' instruction a week is required. Most of this takes place in the employer's time, and it is unusual for more than two hours a week to be spent in attending classes outside working hours.

Certificate courses

These courses are designed to provide training in technical occupations and in some cases can be counted towards a diploma course. Certificate courses vary in length from State to State, but generally speaking they last from two to seven years. Attendance may be full-time for all or part of the course, or wholly part-time. Usually there are no occupational requirements for admission to a certificate course, and students who have completed a related trade course may be admitted together with other students to a certificate course. Educational requirements in most cases specify possession of an Intermediate level examination certificate, which may need to include passes at appropriate levels in certain specified subjects. In addition, in New South Wales the Department of Technical Education conducts the Certificate Entrance Examination, a pass in which qualifies a student for attendance at a technical college. Courses are offered in subjects such as accountancy, industrial electronics, wool classing and architectural drafting.

Diploma courses

Diploma courses are designed to provide professional training in fields such as architecture, art, building, commerce, management, public administration, manual arts, the various branches of engineering and metallurgy, and pure and applied science. They usually follow completion of a full secondary school course. The courses consist of complete progressive units of study in which the lecture room, laboratory and workshop are closely associated. They vary from three to five years' full-time and from three to seven years' part-time study. At least one full year of employment in an appropriate occupation is usually required. The aim of the courses is to develop highly trained technologists with the qualifications and experience required for membership of a professional institution.

The diploma schools or sections of the major institutions are being developed as colleges of advanced education, and these activities are gradually being separated from the trade and certificate sections of technical education.

Other technical courses

Most colleges provide short post-diploma and refresher courses to keep students in touch with new developments in their fields, as well as courses of general interest, such as handicrafts and motor mechanics. Training in certain technical aspects of agriculture such as farm mechanics and wool classing is often given in the technical colleges. Some also offer general secondary courses to enable adults to prepare for matriculation and other public examinations.

Technical correspondence teaching

Each State has a well developed system of technical education by correspondence to extend the facilities of a metropolitan college to rural students. Entrance qualifications are identical with those for the regular classes. A major problem of correspondence work is the linking of theory with practice. This is overcome to a certain extent by holding practical sessions at appropriate training centres once or twice a year at the technical college where the correspondence school is based, or at a mobile workshop stationed for the time at a focal point within the district. In New South Wales these mobile workshops are rail cars equipped with machinery and fittings to make them self-contained training schools for engineering and other trades. Among practical courses offered by correspondence are trade drawing, fitting and machinery, welding, diesel engine operation, automotive engineering and workshop practice, and farm mechanics.

Technical colleges, teachers and students

The numbers of colleges, teachers and enrolments during the years 1962 to 1966 are given in the following table.

**TECHNICAL EDUCATION: COLLEGES, TEACHERS AND ENROLMENTS
STATES AND TERRITORIES, 1962 TO 1966**

| State or Territory | Teachers | | | Students enrolled | | | |
|---------------------------------|----------|-----------|-----------|-------------------|---------|---------|-----------|
| | Colleges | Full-time | Part-time | Total | Males | Females | Persons |
| New South Wales(a)(b) | | | | | | | |
| (c)(d)— | | | | | | | |
| 1962 | 52 | 1,348 | 2,390 | 3,738 | 82,769 | 38,884 | 121,653 |
| 1963 | 52 | 1,474 | 2,732 | 4,206 | 87,477 | 40,219 | 127,696 |
| 1964 | 53 | 1,535 | 3,099 | 4,634 | 94,663 | 41,022 | 135,685 |
| 1965 | 54 | 1,570 | 3,140 | 4,710 | 98,840 | 41,377 | 140,217 |
| 1966 | 54 | 1,625 | 3,566 | 5,191 | 104,839 | 44,774 | 149,613 |
| Victoria(e)— | | | | | | | |
| 1962 | 70 | 2,773 | 2,219 | 4,992 | 48,939 | 12,487 | 61,426 |
| 1963 | 73 | 3,080 | 2,290 | 5,370 | 50,325 | 13,456 | 63,781 |
| 1964 | 73 | 3,378 | 2,363 | 5,741 | 52,031 | 13,399 | 65,430 |
| 1965(f) | 79 | 3,724 | 2,586 | 6,310 | n.a. | n.a. | 79,287 |
| 1966(f) | 82 | 4,151 | 2,639 | 6,790 | n.a. | n.a. | 82,230 |
| Queensland(d)— | | | | | | | |
| 1962 | 15 | 209 | 882 | 1,091 | 24,780 | 11,395 | 36,175 |
| 1963 | 15 | 229 | 977 | 1,206 | 29,044 | 12,860 | 41,904 |
| 1964 | 15 | 235 | 1,067 | 1,302 | 31,082 | 12,002 | 43,084 |
| 1965(g) | 14 | 308 | 921 | 1,229 | 29,715 | 6,740 | 36,455 |
| 1966 | 16 | 389 | 1,004 | 1,393 | 28,269 | 5,520 | 33,789 |
| South Australia— | | | | | | | |
| 1962(h) | 24 | 387 | 827 | 1,214 | 17,599 | 10,177 | 27,776 |
| 1963(i) | 24 | 453 | 954 | 1,407 | 18,661 | 11,291 | (i)34,330 |
| 1964(i) | 25 | 462 | 1,101 | 1,563 | 19,956 | 11,503 | (i)35,937 |
| 1965(i) | 25 | 520 | 1,153 | 1,673 | 21,805 | 13,214 | (i)39,856 |
| 1966(i) | 25 | 549 | 1,214 | 1,763 | 21,685 | 14,332 | (i)41,190 |
| Western Australia(d)(j)— | | | | | | | |
| 1962 | 25 | 352 | 1,136 | 1,488 | 29,374 | 15,531 | 44,905 |
| 1963 | 32 | 373 | 1,257 | 1,630 | 30,251 | 15,362 | 45,613 |
| 1964 | 32 | 444 | 1,398 | 1,842 | 34,399 | 16,711 | 51,110 |
| 1965 | 36 | 505 | 1,632 | 2,137 | 37,326 | 18,114 | 55,440 |
| 1966 | 36 | 606 | 1,710 | 2,316 | 39,161 | 19,396 | 58,557 |
| Tasmania— | | | | | | | |
| 1962 | 11 | 95 | 414 | 509 | 4,884 | 1,763 | 6,647 |
| 1963 | 11 | 104 | 438 | 542 | 5,491 | 1,994 | 7,485 |
| 1964 | 11 | 110 | 498 | 608 | 5,520 | 2,023 | 7,543 |
| 1965 | 12 | 146 | 442 | 588 | 5,501 | 2,110 | 7,611 |
| 1966 | 11 | 154 | 591 | 745 | 5,433 | 2,229 | 7,662 |
| Northern Territory— | | | | | | | |
| 1962 | 2 | 4 | 54 | 58 | 582 | 424 | 1,006 |
| 1963 | 2 | 1 | 66 | 67 | 706 | 552 | 1,258 |
| 1964 | 2 | 1 | 72 | 73 | 712 | 579 | 1,291 |
| 1965 | 2 | 1 | 100 | 101 | 947 | 942 | 1,889 |
| 1966 | 2 | 1 | 112 | 113 | 1,032 | 930 | 1,962 |
| Total— | | | | | | | |
| 1962 | 199 | 5,168 | 7,922 | 13,090 | 208,927 | 90,661 | 299,588 |
| 1963 | 209 | 5,714 | 8,714 | 14,428 | 221,955 | 95,734 | 322,067 |
| 1964 | 211 | 6,165 | 9,598 | 15,763 | 238,363 | 97,239 | 340,080 |
| 1965 | 222 | 6,774 | 9,974 | 16,748 | n.a. | n.a. | 360,755 |
| 1966 | 226 | 7,475 | 10,836 | 18,311 | n.a. | n.a. | 375,003 |

(a) Students enrolled represent gross enrolments, no allowance having been made for students enrolled in more than one course. (b) Includes Australian Capital Territory. Gross enrolments at Canberra Technical College were as follows: 1962, 2,431; 1963, 2,895; 1964, 3,551; 1965, 4,267; 1966, 4,855. (c) Figures include teachers and students at technical colleges and other centres, such as high school classrooms, in which technical classes are conducted. (d) Includes correspondence course teachers and students. (e) Teachers include those at both senior and junior technical colleges. (f) Student enrolment figures for 1965 and 1966 are not comparable with those shown for earlier years because as from 1965 students taking single subjects only were included and the census date was altered from 1 August to 31 May. (g) The figures for 1965 reflect the major reorganisation of technical education introduced at the beginning of the year. In addition to the establishment of the Institute of Technology, entry standards were raised, and the minimum number of students required to commence classes was also raised. (h) Excludes correspondence teachers and students. (i) Total students includes students enrolled in correspondence courses. Teacher figures include correspondence course teachers. (j) Teachers represent number of teaching positions.

Teacher education

The teacher shortage evident in past years has now been overcome to some extent. Some States have little difficulty in recruiting and training sufficient staff to meet the present needs of primary schools. Despite expanded training programmes the shortage of secondary school teachers has proved a greater problem, especially in mathematics and science.

State education departments recruit most prospective teachers for government service from students leaving schools after a secondary course. Each department offers training awards annually on the basis of academic merit and personal suitability. The traineeships cover the cost of a teacher training course (which may include university studies) and provide a living allowance. Students are usually required to enter into an agreement to serve for a specified number of years in the government schools of the State where they have trained. In some States intending teachers can obtain a scholarship at the first public secondary examination to enable them to complete teachers college entrance requirements. Such an award entails a bond of service for a longer period.

The State education departments conduct teachers colleges to train teachers for government schools. These colleges are co-educational and, in the larger States, have been established in country areas as well as in cities. The principal and staff of the colleges are responsible to the Director of Education in the State concerned. Teachers colleges are also conducted by other organisations.

The following table shows the number of teachers colleges, i.e. institutions set up to provide courses of professional teacher training for pre-schools and schools, including technical schools. The institutions covered are the government teachers colleges, denominational and independent teacher-training colleges, and kindergarten training colleges.

NUMBER OF TEACHERS COLLEGES, 1967(a)

| | <i>N.S.W.</i> | <i>Vic.</i> | <i>Qld</i> | <i>S.A.</i> | <i>W.A.</i> | <i>Tas.</i> | <i>A.C.T.</i> | <i>Aust.</i> |
|----------------------|---------------|-------------|------------|-------------|-------------|-------------|---------------|--------------|
| Government . . . | 8 | 13 | 2 | 4 | 3 | 2 | .. | 32 |
| Non-government . . . | 13 | 7 | 2 | 1 | 1 | .. | 1 | 25 |
| Total . . . | 21 | 20 | 4 | 5 | 4 | 2 | 1 | 57 |

(a) There are no teachers colleges in the Northern Territory.

Teachers for government schools

Training of primary school teachers. In most States teachers for government primary schools are trained in teachers colleges. Generally, the duration of courses for primary teachers is two years; but several States are introducing a minimum three-year course for primary teachers. The basic subjects taken in the various courses are history and principles of education, general and special methods of teaching in the primary school, school organisation, and educational psychology. In addition, students undertake courses in English (including speech training), mathematics, handicrafts, music, art, social studies, natural science, and physical and health education. Optional subjects may include dramatic art, visual aids, and so on. Supervised practice teaching in schools and the observation of demonstration lessons form part of all training courses. Since primary teachers in Australia may be called upon at some time to teach grouped classes in a small school or a 'one-teacher' school, special training for this kind of work is included in their course.

Training of secondary school teachers. Secondary teachers are normally specialists in a combination of subjects, such as English and history, modern languages, or mathematics and science. Intending secondary school teachers either obtain a university degree with additional professional teaching training such as a Diploma of Education, or are required to hold a diploma or certificate from a teachers college. Training also includes practice teaching under the supervision of teachers college and university staff, and the observation of demonstration lessons.

At several Australian universities, students wishing to take up teaching as a profession can receive their professional training along with the study of their teaching subjects as part of a first degree course in Education. The time taken to complete such a Bachelor of Education degree course is three or four years.

Training for specialist teaching. Teachers of specialist subjects, such as music, art, manual arts, domestic science, and commercial subjects, receive from two to five years' training which varies according to the institution concerned and the type of school in which the teacher is to serve. In several States the shorter courses are provided wholly by the teachers colleges. In five States teachers of music receive their specialist training at conservatoria of music. Where the specialist course is given at an institution other than the teachers college—e.g. at a university, technical college, or

conservatorium of music—as is usual for teachers of specialist subjects in high schools, students are required to attend teachers college or university lectures in education, and in some cases the specialist course is followed by a year of professional training. Courses designed to train physical education teachers are offered in universities in all States, and in four States at a teachers college as well.

Training for teachers of agricultural subjects in secondary schools is available in three States and consists of either an agricultural college diploma or a university degree course together with professional training. In Victoria there is a three-year agricultural college diploma course which follows on the normal two-year primary teachers course, whereas in Queensland students undertake a course at the Queensland Agricultural College, followed by two years of teacher education, one at university and one at a teachers college. In South Australia most students undertake a Bachelor of Science Degree concurrently with professional training and with special training in agricultural science. Teachers of technical subjects in secondary schools may be trained in manual or industrial arts courses of two to four years' duration, at teachers colleges, technical colleges, or, in one State, at a university. These courses include basic training in such subjects as wood and metal work, and geometrical drawing. In Victoria there is a separate Technical Teachers' College. Some teachers of trade subjects in technical schools are recruited from the ranks of qualified tradesmen engaged in industry or commerce. Upon appointment these teachers usually receive instruction in classroom teaching techniques and procedures.

The following table shows enrolments in government teachers colleges in 1967. The figures include departmental students (i.e. those awarded State education department scholarships or fellowships and who have executed an agreement for periods of teaching service after completion of their teacher education, whether they are required to attend a teachers college or receive instruction at a university or other educational institution), and private students at government colleges, including those sponsored by government departments other than State education departments. The figures exclude enrolments for refresher courses, summer schools, and courses designed for practising teachers. The figures include 910 departmental students at various universities who have not been enrolled at a teachers college.

GOVERNMENT TEACHERS COLLEGES: ENROLMENTS, AUSTRALIA, 1967

| | Departmental students | | | Other students | | | Total | | |
|--|-----------------------|---------|---------|----------------|---------|---------|--------|---------|-----------|
| | Males | Females | Persons | Males | Females | Persons | Males | Females | Persons |
| Level— | | | | | | | | | |
| Courses in primary and sub-primary teaching | 2,766 | 8,552 | 11,318 | 76 | 84 | 160 | 2,842 | 8,636 | 11,478 |
| Courses in secondary teaching(a) | 6,773 | 7,362 | 14,135 | 160 | 80 | 240 | 6,933 | 7,442 | 14,375 |
| Courses not specified as primary or secondary teaching(b) | 402 | 499 | 901 | n.a. | n.a. | 122 | 402 | 499 | (c)1,023 |
| Attendance— | | | | | | | | | |
| Attendance only at teachers college | 3,946 | 9,737 | 13,683 | 199 | 121 | (c)442 | 4,145 | 9,858 | (c)14,125 |
| Students required to attend at university or other advanced education institution— | | | | | | | | | |
| Full-time | 5,175 | 5,058 | 10,233 | 24 | 13 | 37 | 5,199 | 5,071 | 10,270 |
| Part-time | 820 | 1,618 | 2,438 | 13 | 30 | 43 | 833 | 1,648 | 2,481 |
| Total | 9,941 | 16,413 | 26,354 | 236 | 164 | (c)522 | 10,177 | 16,577 | (c)26,876 |

(a) Includes courses for students training as technical college teachers. (b) Courses which are not classified as primary or secondary level courses until a later stage of the course. The students are mainly first year students in university courses in Western Australia and students in university courses in Tasmania. (c) Includes 122 students not classified by sex.

In-service training. As almost all teachers now enter the profession by way of teachers colleges or universities, where they receive basic professional training, in-service training in Australia is directed chiefly towards keeping teachers abreast of developments and adding to their basic training. In-service training usually takes the form of short courses held sometimes during vacations, sometimes during school-time or in the evening. In some States in-service courses for teachers in remote areas are provided by correspondence. Courses consist of discussions and lectures given by senior staff members of education departments and university and teachers college lecturers on such subjects as classroom techniques and supervision, librarianship, visual aids, music, arts and crafts, and physical education. In some States there are also in-service courses for special groups of teachers such as headmasters or teachers in one-teacher schools. In addition, district inspectors are responsible for organising short conferences of teachers, where professional topics are discussed. Education departments encourage teachers to pursue university courses and in some States pay the cost of courses undertaken by selected teachers.

In January 1968 groups of Australian teachers again attended refresher courses in New Caledonia for Australian and New Zealand teachers of French. These courses have been offered to the Australian Government by the French Government. Since 1963 official publications of the education departments contain articles dealing with educational theory and practice. Magazines of the teachers' organisations, which reach the majority of government teachers, also contain articles of this type.

Status of teachers. Most teachers in governmental schools are permanent public servants and have security of tenure, superannuation rights, and the right of appeal in matters of promotion. The centralised education systems and the general policy of providing fully trained teachers for both city and country areas mean that teachers are subject to transfer to any part of the State in which they serve. It is common for a teacher's first appointment to be to a country school.

In each State there are unions of State school teachers and these together form a federal body, the Australian Teachers' Federation. Teachers in non-government schools have formed similar organisations. Their aim is to advance the teachers' status and conditions and to stimulate community interest in educational problems.

Training of technical teachers

Prior to the 1939-45 War technical colleges were staffed chiefly by trained teachers in the employment of the education departments or technicians drawn from industry. Although some of the latter were highly qualified, the great majority had not been trained as teachers.

To preserve links with industry and trade practice, schemes have been developed which continue the recruitment of specialist tradesmen as teachers but provide also for their training in educational method and teaching techniques. In Victoria the Technical Teachers' College provides training for students with appropriate diploma or trade qualifications and suitable industrial experience. In New South Wales technical college lecturers and tradesmen-teachers receive an in-service course of teacher training in general educational theory and teaching method, while correspondence courses and visiting lecturers assist the newly appointed tradesman-teacher in country colleges. Variations of this scheme are in operation in other States. Many technical teachers, principally of academic, commercial and domestic science subjects, hold trained teachers' certificates from teachers colleges.

Training of non-government school teachers

Teachers for non-government schools receive their training in a number of ways. The Roman Catholic Church staffs both its primary and secondary schools largely with members of religious orders. In recent years there has been a growth in the number of lay teachers being employed in Catholic schools, and training of students to become lay primary teachers has been instituted. Secondary teachers receive their academic training mostly through courses provided by Australian universities.

Other non-government schools tend to recruit their staffs from teachers who have already obtained qualifications in Australia or overseas. In New South Wales and Victoria non-government school authorities offer courses designed specially for teachers in their schools. Non-government schools recruit also university graduates, who are then given professional guidance by senior members of the school staff. Private students may enrol at government teachers colleges on payment of a fee, but the number of places available is limited. Some teachers destined for non-government schools train in this way.

In 1967 there were 1,199 students enrolled in non-government teachers colleges, of whom 929 were enrolled in primary, and 270 in secondary, teacher education courses.

During vacations many non-government teachers attend in-service training courses organised by education departments. In recent years vacation courses have been provided by bodies other than education departments for teachers from both government and non-government schools. For example, an independent body, the Science Foundation for Physics within the University of Sydney, has provided such courses for teachers of science in secondary schools in New South Wales.

Kindergarten training colleges

The Kindergarten Unions, which are non-government organisations, have established colleges providing three-year courses in all States except Tasmania, where an infant and pre-school course is provided by the Hobart Teachers' College. The minimum entrance age is usually seventeen years and applicants with matriculation status are preferred. In New South Wales the Sydney Day Nursery and Nursery Schools' Association maintains a training college which provides a course for pre-school and kindergarten teachers. These colleges provide full-time diploma courses which are similar in content and standards. Teachers are trained for work with children between the ages of two and seven years, and the training courses include the study of general educational theory, the theory of pre-school education, general cultural subjects, and art and crafts (including music). In addition, training is given in practical pre-school teaching. The total number of students enrolled in 1967 in kindergarten teachers colleges was 668. This figure excludes students enrolled in kindergarten teacher education courses in Hobart Teachers' College.

Government expenditure on schools and technical education

The following tables show particulars of the total net expenditure (i.e. gross expenditure less receipts for services rendered) from certain funds on government schools, education departments and technical education. The data have been compiled on the same basis as far as differences in organisation and accounting methods between States and Territories will permit. The tables include only expenditure from the consolidated revenue funds and certain trust or special funds. They exclude loan fund expenditure; expenditure on debt charges, pay-roll tax and superannuation payments, in so far as it is possible to identify these items; and some items for which information cannot be obtained from the public accounts of all States. In particular, the following tables exclude specific purpose expenditure by the Commonwealth for schools and technical colleges in the States, such as science laboratory grants.

Government schools' and education departments' expenditure

The figures relate throughout to years ended 30 June. Net expenditure per pupil relates the total net expenditure to the mean of the numbers of pupils enrolled at government schools at two consecutive school censuses. Net expenditure per head of population relates the total net expenditure to the mean population.

GOVERNMENT SCHOOLS AND EDUCATION DEPARTMENTS: NET EXPENDITURE STATES AND TERRITORIES, 1962-63 TO 1966-67

| Year | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. (a) | A.C.T. | Aust. |
|---|---------|---------|--------|--------|--------|--------|-------------|--------|---------|
| TOTAL NET EXPENDITURE (\$'000) | | | | | | | | | |
| 1962-63 | 108,088 | 76,262 | 33,604 | 29,540 | 21,684 | 11,678 | 932 | 2,224 | 284,012 |
| 1963-64 | 119,778 | 84,756 | 37,246 | 33,363 | 23,894 | 12,966 | 1,087 | 2,498 | 315,588 |
| 1964-65 | 140,803 | 91,593 | 40,011 | 36,380 | 26,810 | 14,413 | 1,352 | 3,264 | 354,626 |
| 1965-66 | 148,835 | 101,617 | 43,008 | 40,408 | 30,751 | 15,476 | 1,634 | 3,563 | 385,292 |
| 1966-67 | 165,495 | 111,640 | 48,309 | 45,674 | 33,237 | 17,340 | 1,855 | 4,043 | 427,593 |
| TOTAL NET EXPENDITURE PER PUPIL(b) (\$) | | | | | | | | | |
| 1962-63 | 174.53 | 164.63 | 133.45 | 161.40 | 164.75 | 169.27 | 176.88 | 190.69 | 163.70 |
| 1963-64 | 190.18 | 177.12 | 145.81 | 175.24 | 176.11 | 184.86 | 182.14 | 192.05 | 177.40 |
| 1964-65 | 218.83 | 184.79 | 153.87 | 183.16 | 192.51 | 202.63 | 202.33 | 226.13 | 193.86 |
| 1965-66 | 224.50 | 197.72 | 161.54 | 195.65 | 213.67 | 214.83 | 214.30 | 223.83 | 203.95 |
| 1966-67 | 241.16 | 209.84 | 175.80 | 213.70 | 220.21 | 236.36 | 212.17 | 230.44 | 218.45 |
| TOTAL NET EXPENDITURE PER HEAD OF POPULATION(b) (\$) | | | | | | | | | |
| 1962-63 | 26.88 | 25.32 | 21.49 | 29.58 | 27.89 | 32.60 | 19.85 | 31.97 | 26.18 |
| 1963-64 | 29.37 | 27.58 | 23.35 | 32.60 | 29.91 | 35.74 | 21.74 | 32.46 | 28.54 |
| 1964-65 | 33.99 | 29.20 | 24.59 | 34.58 | 32.81 | 39.34 | 25.61 | 38.67 | 31.44 |
| 1965-66 | 35.36 | 31.81 | 25.91 | 37.35 | 36.73 | 41.87 | 29.49 | 38.47 | 33.50 |
| 1966-67 | 38.73 | 34.35 | 28.62 | 41.37 | 38.55 | 46.37 | 31.94 | 40.46 | 36.52 |

(a) Figures include expenditure on adult education which amounted to \$2,148 in 1962-63, \$916 in 1963-64, \$1,092 in 1964-65, \$887 in 1965-66, and \$2,372 in 1966-67. (b) Expenditure figures exclude expenditure on special education of Aboriginal children, while pupil and population figures include Aborigines.

The following table shows, for the six States, the net expenditure on government schools and education departments classified into the following headings: primary education, secondary education, administration, transportation of school children and students, and training of teachers. Expenditure on technical and agricultural education is excluded from the tables. It has been necessary

to estimate some items of expenditure, largely because the meanings of 'primary' and 'secondary' differ between States and because elementary and higher educations are sometimes given in the same school by the same teachers. Expenditure on government schools in the Northern Territory and Australian Capital Territory is not included in the following table because the detail is not available.

**GOVERNMENT SCHOOLS AND EDUCATION DEPARTMENTS: CLASSIFICATION OF
EXPENDITURE, STATES, 1962-63 TO 1966-67**
(\$'000)

| <i>Year</i> | <i>N.S.W.</i> | <i>Vic.</i> | <i>Qld</i> | <i>S.A.</i> | <i>W.A.</i> | <i>Tas.</i> | <i>Total (a)</i> |
|---|---------------|-------------|------------|-------------|-------------|-------------|----------------------|
| PRIMARY EDUCATION | | | | | | | |
| 1962-63 . . | 55,880 | 38,976 | 20,816 | 13,992 | 11,154 | 4,330 | 145,148 |
| 1963-64 . . | 60,824 | 42,590 | 21,066 | 15,586 | 12,258 | 4,990 | 157,314 |
| 1964-65 . . | 70,199 | 45,492 | 20,995 | 16,640 | 13,800 | 5,521 | 172,647 |
| 1965-66 . . | 70,612 | 49,930 | 22,050 | 18,136 | 15,714 | 5,868 | 182,310 |
| 1966-67 . . | 75,819 | 52,495 | 24,392 | 20,462 | 16,821 | 6,731 | 196,720 |
| SECONDARY EDUCATION | | | | | | | |
| 1962-63 . . | 35,386 | 20,460 | 8,094 | 10,964 | 5,918 | 3,958 | 84,780 |
| 1963-64 . . | 40,706 | 23,852 | 10,458 | 12,699 | 6,686 | 5,034 | 99,435 |
| 1964-65 . . | 49,992 | 26,027 | 12,778 | 14,193 | 7,522 | 5,678 | 116,190 |
| 1965-66 . . | 54,337 | 29,463 | 13,809 | 15,915 | 9,247 | 6,080 | 128,851 |
| 1966-67 . . | 62,454 | 34,452 | 16,076 | 18,092 | 9,864 | 6,633 | 147,571 |
| ADMINISTRATION | | | | | | | |
| 1962-63 . . | 4,138 | 1,780 | 1,344 | 600 | 750 | 1,374 | 9,986 |
| 1963-64 . . | 4,522 | 1,906 | 1,484 | 698 | 858 | 810 | 10,278 |
| 1964-65 . . | 5,503 | 2,232 | 1,571 | 813 | 1,021 | 833 | 11,973 |
| 1965-66 . . | 6,237 | 2,357 | 1,794 | 848 | 909 | 904 | 13,049 |
| 1966-67 . . | 7,094 | 2,773 | 2,010 | 975 | 1,058 | 1,048 | 14,958 |
| TRANSPORTATION OF SCHOOL CHILDREN AND STUDENTS | | | | | | | |
| 1962-63 . . | 5,300 | 5,352 | 1,806 | 1,172 | 2,170 | 1,284 | 17,084 |
| 1963-64 . . | 5,582 | 5,600 | 2,076 | 1,270 | 2,362 | 1,336 | 18,226 |
| 1964-65 . . | 5,867 | 6,009 | 2,474 | 1,312 | 2,611 | 1,418 | 19,691 |
| 1965-66 . . | 7,342 | 6,414 | 2,770 | 1,424 | 2,673 | 1,500 | 22,123 |
| 1966-67 . . | 9,074 | 6,940 | 2,995 | 1,582 | 3,044 | 1,574 | 25,209 |
| EDUCATION OF TEACHERS | | | | | | | |
| 1962-63 . . | 7,384 | 9,694 | 1,544 | 2,812 | 1,692 | 732 | 23,858 |
| 1963-64 . . | 8,144 | 10,808 | 2,162 | 3,110 | 1,730 | 796 | 26,750 |
| 1964-65 . . | 9,242 | 11,833 | 2,193 | 3,422 | 1,856 | 963 | 29,509 |
| 1965-66 . . | 10,307 | 13,453 | 2,585 | 4,085 | 2,208 | 1,124 | 33,762 |
| 1966-67 . . | 11,054 | 14,980 | 2,836 | 4,563 | 2,450 | 1,354 | 37,237 |

(a) Excludes Northern Territory and Australian Capital Territory.

Technical education expenditure

The following table shows the net expenditure on technical education from the State consolidated revenue funds, together with expenditure in the Australian Capital Territory. As with school expenditure, the table excludes specific purpose Commonwealth grants to the States for technical education and therefore does not show total government expenditure on technical education. For Commonwealth payments, see pages 550-1.

**TECHNICAL EDUCATION: NET EXPENDITURE, STATES AND
AUSTRALIAN CAPITAL TERRITORY, 1962-63 TO 1966-67
(\$'000)**

| Year | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | A.C.T. | Aust. |
|-------------------|--------|--------|-------|-------|-------|------|--------|--------|
| 1962-63 | 9,530 | 15,712 | 2,144 | 960 | 2,336 | 688 | 162 | 31,532 |
| 1963-64 | 10,684 | 18,048 | 2,044 | 1,330 | 2,772 | 732 | 211 | 35,821 |
| 1964-65 | 12,637 | 19,963 | 1,892 | 1,386 | 3,426 | 813 | 305 | 40,422 |
| 1965-66 | 13,137 | 22,864 | 2,677 | 1,216 | 4,240 | 946 | 445 | 45,525 |
| 1966-67 | 14,465 | 25,597 | 3,175 | 1,046 | 4,851 | 988 | 585 | 50,707 |

Non-government schools' finance

Most Roman Catholic parish schools charge fees, but payment is not insisted on in the case of families who cannot afford it. At the majority of non-government secondary schools, privately endowed scholarships are available in varying numbers, and reductions in fees are normally made for children of clergy or for two or more members of one family attending the same school. With these exceptions, pupils of non-government schools must pay fees.

Certain State scholarships and bursaries are tenable at approved non-government secondary schools. Since the establishment of educational systems by the State governments, official policy has been largely against the provision of direct financial assistance to non-government schools, but in 1967 several States initiated such systems. Most States, moreover, have come to assist non-government schools in approved building projects. For details of Commonwealth finance for the building and equipping of science laboratories *see* page 550.

Universities

Students qualify for entrance to Australian universities by passing a matriculation examination in one of the States after five or six years of secondary education. Each university has its own regulations for matriculation, specifying the number and combination of subjects to be passed for admission. Students entering the universities have the choice of undergraduate study in various faculties. All universities provide also postgraduate courses of study. The Australian universities, with their faculties or schools, are listed below in the order of their foundation.

University of Sydney, 1850, Sydney, New South Wales: Agriculture, Architecture, Arts, Dentistry, Economics, Engineering, Law, Medicine, Science, Veterinary Science.

University of Melbourne, 1853, Melbourne, Victoria: Agriculture, Applied Science, Architecture, Arts, Dental Science, Economics and Commerce, Education, Engineering, Law, Medicine, Music, Science, Veterinary Science.

University of Adelaide, 1874, Adelaide, South Australia: Agricultural Science, Architecture and Town Planning, Arts, Dentistry, Economics, Engineering, Law, Medicine, Music, Science, Technology and Applied Science.

University of Tasmania, 1890, Hobart, Tasmania: Agricultural Science, Arts, Commerce, Education, Engineering, Law, Medicine, Science.

University of Queensland, 1909, Brisbane, Queensland: Agriculture, Architecture, Arts, Commerce and Economics, Dentistry, Education, Engineering, Law, Medicine, Music, Science, Veterinary Science.

University of Western Australia, 1912, Perth, Western Australia: Agriculture, Architecture, Arts, Dental Science, Economics and Commerce, Education, Engineering, Law, Medicine, Science.

Australian National University, 1946, Canberra, Australian Capital Territory: Institute of Advanced Studies—John Curtin School of Medical Research, Research School of Physical Sciences, Research School of Social Sciences, Research School of Pacific Studies; School of General Studies (formerly Canberra University College, established in 1930)—Arts, Economics, Law, Oriental Studies, Science.

University of New England, 1954 (formerly New England University College, established in 1938), Armidale, New South Wales: Agricultural Economics, Arts, Economics, Rural Science, Science.

University of New South Wales, 1958 (formerly the New South Wales University of Technology, established in 1948), Sydney, New South Wales: Applied Science, Architecture, Arts, Commerce, Engineering, Medicine, Science.

Monash University, 1958, Melbourne, Victoria: Arts, Economics and Politics, Education, Engineering, Law, Medicine, Science.

University of Newcastle, 1965 (formerly Newcastle University College, established in 1951), Newcastle, New South Wales: Applied Science, Architecture, Arts, Economics, Engineering, Science.

Flinders University of South Australia, 1966, Bedford Park, South Australia: Language and Literature, Social Sciences, Physical Sciences, Biological Sciences.

La Trobe University, 1967, Bundoora, Victoria: Biological Sciences, Humanities, Physical Sciences, Social Sciences, Agriculture.

Macquarie University, 1967, Eastwood, New South Wales: Behavioural Sciences, Biological Sciences, Chemistry, Earth Sciences, Economic and Financial Studies, Education, English Studies, Historical, Philosophical and Political Studies, Mathematics and Physics, Modern Languages.

Each of the universities was established by a parliamentary Act as an autonomous institution, with its own Governing Council or Senate. Nevertheless, the Australian universities receive substantial government support from both State and Commonwealth sources, only part of their income being derived from students' fees, private donations and bequests.

There are also two university colleges. Townsville University College, founded in 1961, is a part of the University of Queensland. Full degree courses in Arts, Business Studies, Education, Science, and Civil Engineering are available. The first two years of all other branches of Engineering and of Applied Science may be taken and the first year is available in Agriculture, Forestry, Dentistry, Medicine, Pharmacy, Veterinary Science, and Law. Wollongong University College was opened in 1962 and is affiliated with the University of New South Wales. It offers some courses in the faculties of Arts, Commerce, Engineering, Science, and Medicine.

Organisation of courses

Bachelor degree courses are from three to six years in length, depending on the faculty, and for the majority full-time attendance is required. Certain courses, however, may also be undertaken by part-time or evening students. The university academic year begins in March and finishes in early December. At most universities two short vacation periods divide the year into three terms, but there are four terms in some universities.

Several universities make provision for external tuition, whereby students living away from university towns may take a restricted number of courses by correspondence. The University of Queensland has developed a system of correspondence tuition which now caters not only for students within the State but also for those in the Northern Territory, in the Territory of Papua and New Guinea, and for Colombo Plan Scholarship holders in south-east Asia. External students living in Queensland receive tutorial assistance at university centres in the principal country towns.

The University of New England's Department of External Studies offers a wide range of subjects for external study, leading to the degrees of Bachelor of Arts, Bachelor of Letters, Bachelor of Education, the Diploma in Education, and the Diploma in Educational Administration. External students must attend short annual residential schools of instruction in their subjects, usually held at the university.

Post-graduate courses leading either to a Master's degree or to a Doctorate are available at all universities. Facilities cover the humanities, social sciences and pure and applied sciences. Additional courses are constantly being introduced by the universities at both the undergraduate and the post-graduate level to cover new fields of knowledge and specialisation. Macquarie University has also commenced courses for part-time external students who reside in New South Wales or in the Australian Capital Territory. At present, there is an emphasis on science programmes in this university's external courses.

Research

A wide range of research work and training in research techniques is carried out by the universities as part of their normal functions. Post-graduate students and members of university staff are engaged in research, both as part of their work for post-graduate degrees and also as part of group and departmental research programmes. Support for research in universities is derived from public and private sources, including funds and foundations established to encourage research in a particular field.

University expansion and development

Since the 1939-45 War the Australian universities have had to face greatly increased demands on their facilities, firstly from large numbers of ex-service personnel in the immediate post-war years and later from greatly increased numbers of students leaving secondary schools each year. By 1967 the total enrolments in Australian universities had reached approximately 95,000 compared with an early post-war peak of 32,453 in 1948.

To assist the universities to cope with these demands, increasing co-operation between the Commonwealth Government and the State Governments in university finance became necessary. The Commonwealth Government set up a Committee on Australian Universities, whose 1957 report ('The Murray Report') led to more finance becoming available to universities and to the setting up of a permanent body, the Australian Universities Commission, to advise the Commonwealth Government on university development. In the years since the Murray Report the following major developments have taken place in the Australian university structure: the University of New South Wales was created from the earlier University of Technology in 1958; in the same year Monash University was established in Victoria; in 1960 the Australian National University was reconstituted, combining both undergraduate and post-graduate facilities, and now consists of the Institute of Advanced Studies and the School of General Studies created from the Canberra University College; the University of Queensland set up the University College of Townsville in 1961; the University of New South Wales established the Wollongong University College in 1962; in 1965 the University of Newcastle was created from the Newcastle University College; in 1966 the University of Adelaide at Bedford Park became The Flinders University of South Australia; and in 1967 Macquarie University and La Trobe University were established in New South Wales and Victoria respectively.

The Queensland Government is proceeding with plans for the construction of a third university institution at Mount Gravatt. It is expected that the campus will be established within the next three years as a satellite of the University of Queensland.

Despite their expansion, the Australian universities are still faced with a problem in providing tuition for all students who reach matriculation standard and wish to take up university courses. As a result, several universities have found it necessary to impose quotas on enrolments in their courses.

University teaching and research staff

UNIVERSITIES: TEACHING AND RESEARCH STAFF(a), 1967

| University | <i>Full-time teaching and research staff</i> | | | | Total | <i>Part-time teaching and research staff(c)</i> | <i>Full-time research only staff</i> | <i>Part-time research only staff(d)</i> |
|---------------------------|--|---|---------------------------------------|---|-------|---|--------------------------------------|---|
| | <i>Professors</i> | <i>Associate professors and readers</i> | <i>Senior lecturers and lecturers</i> | <i>Assistant lecturers, demonstrators, etc. (b)</i> | | | | |
| Australian National . . . | 34 | 27 | 145 | 60 | 266 | 171 | 710 | . . |
| Sydney . . . | 91 | 91 | 505 | 234 | 921 | 1,325 | 384 | 8 |
| New South Wales . . . | 82 | 67 | 479 | 183 | 811 | 551 | 133 | 2 |
| New England . . . | 28 | 32 | 151 | 100 | 311 | 26 | 41 | . . |
| Newcastle . . . | 18 | 7 | 108 | 11 | 144 | 115 | 10 | 1 |
| Macquarie . . . | 18 | 2 | 28 | 15 | 63 | 49 | 3 | . . |
| Melbourne . . . | 87 | 106 | 543 | 142 | 878 | 824 | 242 | 26 |
| Monash . . . | 60 | 22 | 340 | 156 | 578 | 474 | 62 | 4 |
| La Trobe . . . | 18 | 1 | 35 | 8 | 62 | 9 | 11 | . . |
| Queensland . . . | 69 | 76 | 470 | 261 | 876 | 661 | 173 | 7 |
| Adelaide . . . | 63 | 53 | 318 | 68 | 502 | 489 | 267 | 11 |
| Flinders . . . | 22 | 5 | 60 | 11 | 98 | 42 | 21 | 3 |
| Western Australia . . . | 47 | 41 | 224 | 58 | 370 | 385 | 150 | 4 |
| Tasmania . . . | 26 | 17 | 91 | 30 | 164 | 233 | 42 | 12 |
| Total . . . | 663 | 547 | 3,497 | 1,337 | 6,044 | 5,354 | 2,249 | 78 |

(a) Filled positions. Teaching and research staff includes all staff with teaching functions, but excludes research only staff which is shown separately. (b) Includes tutors and teaching fellows. (c) Teaching hours in units of 100 hours per annum. (d) In equivalent full-time units of 35 hours per week.

UNIVERSITIES: TEACHING AND RESEARCH STAFF(a), AUSTRALIA, 1963 TO 1967

| Year | Full-time teaching and research staff | | | | Total | Part-time teaching and research staff(c) | Full-time research only staff | Part-time research only staff(d) |
|------------|---------------------------------------|----------------------------------|--------------------------------|---|-------|--|-------------------------------|----------------------------------|
| | Professors | Associate professors and readers | Senior lecturers and lecturers | Assistant lecturers, demonstrators, etc.(b) | | | | |
| 1963 . . . | 404 | 374 | 2,663 | 848 | 4,289 | 3,817 | 1,481 | 35 |
| 1964 . . . | 463 | 409 | 2,847 | 1,004 | 4,723 | 4,325 | 1,675 | 45 |
| 1965 . . . | 522 | 449 | 3,048 | 1,085 | 5,104 | 5,116 | 1,744 | 63 |
| 1966 . . . | 615 | 487 | 3,297 | 1,261 | 5,660 | 5,615 | 2,057 | 82 |
| 1967 . . . | 663 | 547 | 3,497 | 1,337 | 6,044 | 5,354 | 2,249 | 78 |

(a) Filled positions. Teaching and research staff includes all staff with teaching functions, but excludes Research only staff which is shown separately. (b) Includes tutors and teaching fellows. (c) Teaching hours in units of 100 hours per annum. (d) In equivalent full-time units of 35 hours per week.

University students enrolled

UNIVERSITIES: STUDENTS ENROLLED, 1967

| University | Degree courses | Diploma courses | | Certificate courses | Miscellaneous subjects (a) | Adjusted total(b) |
|---------------------------|----------------|-----------------|--------------|---------------------|----------------------------|-------------------|
| | | Post-graduate | Sub-graduate | | | |
| Australian National . . . | 3,365 | .. | .. | .. | 163 | 3,416 |
| Sydney . . . | 15,252 | 890 | 81 | .. | 379 | 16,376 |
| New South Wales . . . | 11,554 | 432 | 83 | 303 | 468 | 12,812 |
| New England . . . | 3,928 | 435 | .. | .. | 71 | 4,402 |
| Newcastle . . . | 1,768 | 98 | .. | .. | 59 | 1,902 |
| Macquarie . . . | 1,190 | .. | .. | .. | 81 | 1,271 |
| Melbourne . . . | 13,097 | 138 | 687 | .. | 716 | 14,151 |
| Monash . . . | 6,850 | 342 | .. | .. | 43 | 7,117 |
| La Trobe . . . | 542 | .. | .. | .. | 10 | 552 |
| Queensland . . . | 14,089 | 165 | 478 | 124 | 397 | 15,253 |
| Adelaide . . . | 7,856 | 168 | 734 | 15 | 210 | 8,828 |
| Flinders . . . | 808 | 15 | .. | .. | 8 | 830 |
| Western Australia . . . | 5,669 | 232 | .. | .. | 145 | 6,027 |
| Tasmania . . . | 2,038 | 160 | 30 | 53 | 202 | 2,443 |
| Total . . . | 88,006 | 3,075 | 2,093 | 495 | 2,952 | 95,380 |

(a) Includes *ad hoc* courses. (b) Adjustment made for students enrolled for more than one course.

Of the students enrolled in 1967, 68,979 were males and 26,401 females. Included in those enrolled for degrees were 9,181 enrolled for higher degree courses: Australian National University, 712; Sydney, 2,135; University of New South Wales, 1,405; New England, 265; Newcastle, 116; Macquarie, 147; Melbourne, 1,422; Monash, 475; La Trobe, 48; Queensland, 899; Adelaide, 727; Flinders, 62; Western Australia, 618; and Tasmania, 150.

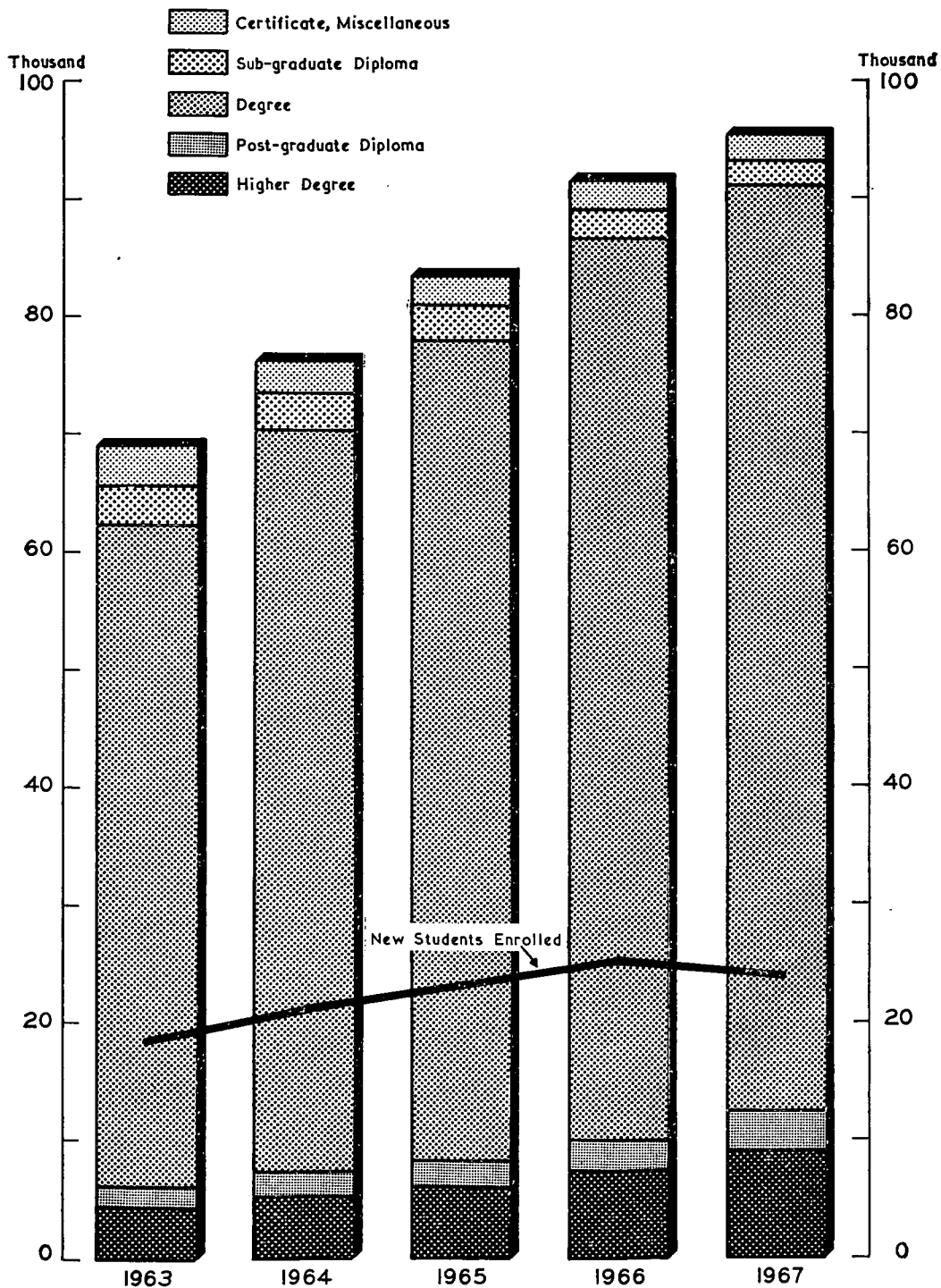
UNIVERSITIES: STUDENTS ENROLLED, AUSTRALIA, 1963 TO 1967

| Year | Degree courses | | Diploma courses | | Certificate courses | Miscellaneous subjects (a) | Adjusted total(b) |
|------------|----------------|------------------|-----------------|--------------|---------------------|----------------------------|-------------------|
| | Higher degrees | Bachelor degrees | Post-graduate | Sub-graduate | | | |
| 1963 . . . | 4,551 | 56,077 | 1,764 | 3,251 | 1,437 | 2,589 | 69,074 |
| 1964 . . . | 5,383 | 62,936 | 1,984 | 3,377 | 650 | 2,854 | 76,188 |
| 1965 . . . | 6,169 | 69,540 | 2,160 | 3,277 | 361 | 3,117 | 83,349 |
| 1966 . . . | 7,560 | 76,453 | 2,472 | 2,625 | 267 | 3,244 | 91,291 |
| 1967 . . . | 9,181 | 78,825 | 3,075 | 2,093 | 495 | 2,952 | 95,380 |

(a) Includes *ad hoc* courses. (b) Adjustment made for students enrolled for more than one course.

UNIVERSITY STUDENTS ENROLLED: COURSES

AUSTRALIA, 1963 TO 1967



University new students enrolled

UNIVERSITIES: NEW STUDENTS ENROLLED, 1967

| University | Degree courses | Diploma courses | | | Certificate courses | Miscellaneous subjects (a) | Adjusted total(b) |
|---------------------|----------------|-----------------|--------------|------------|---------------------|----------------------------|-------------------|
| | | Post-graduate | Sub-graduate | | | | |
| Australian National | 1,062 | .. | .. | .. | 119 | 1,154 | |
| Sydney | 2,741 | 179 | 2 | .. | 149 | 3,069 | |
| New South Wales | 1,819 | 161 | 35 | 303 | 242 | 2,560 | |
| New England | 1,104 | 165 | .. | .. | 26 | 1,290 | |
| Newcastle | 349 | 3 | .. | .. | 26 | 377 | |
| Macquarie | 1,183 | .. | .. | .. | 81 | 1,264 | |
| Melbourne | 2,778 | 25 | 198 | .. | 237 | 3,116 | |
| Monash | 2,376 | 119 | .. | .. | 35 | 2,490 | |
| La Trobe | 542 | .. | .. | .. | 10 | 552 | |
| Queensland | 3,323 | 13 | 99 | 44 | 81 | 3,560 | |
| Adelaide | 1,618 | 11 | 95 | 1 | 85 | 1,809 | |
| Flinders | 555 | 9 | .. | .. | 8 | 572 | |
| Western Australia | 1,511 | 10 | .. | .. | 34 | 1,555 | |
| Tasmania | 601 | 3 | 1 | 6 | 59 | 669 | |
| Total | 21,562 | 698 | 430 | 354 | 1,192 | 24,037 | |

(a) Includes *ad hoc* courses.

(b) Adjustment made for students enrolled for more than one course.

Of the new students enrolled in 1967, 16,514 were males and 7,523 females. Included in those enrolled for degrees were 1,248 enrolled for higher degree courses: Australian National University, 218; Sydney, 156; University of New South Wales, 238; New England, 32; Newcastle, 16; Macquarie, 140; Melbourne, 74; Monash, 122; La Trobe, 48; Queensland, 71; Adelaide, 59; Flinders, 38; Western Australia, 29; and Tasmania, 7.

UNIVERSITIES: NEW STUDENTS ENROLLED, AUSTRALIA, 1963 TO 1967

| Year | Degree courses | | Diploma courses | | | Miscellaneous subjects (a) | Adjusted total(b) |
|------|----------------|------------------|-----------------|--------------|---------------------|----------------------------|-------------------|
| | Higher degrees | Bachelor degrees | Post-graduate | Sub-graduate | Certificate courses | | |
| 1963 | 538 | 15,717 | 387 | 855 | 247 | 1,038 | 18,746 |
| 1964 | 603 | 18,339 | 462 | 885 | 178 | 1,184 | 21,528 |
| 1965 | 697 | 20,062 | 458 | 922 | 111 | 1,383 | 23,451 |
| 1966 | 962 | 22,185 | 607 | 490 | 63 | 1,395 | 25,520 |
| 1967 | 1,248 | 20,314 | 698 | 430 | 354 | 1,192 | 24,037 |

(a) Includes *ad hoc* courses.

(b) Adjustment made for students enrolled for more than one course.

Full-time, part-time, and external university students

UNIVERSITIES: FULL-TIME, PART-TIME AND EXTERNAL STUDENTS, 1967

| University | Full-time | Part-time | External | Total |
|---------------------|---------------|---------------|--------------|---------------|
| Australian National | 1,825 | 1,591 | .. | 3,416 |
| Sydney | 12,526 | 3,850 | .. | 16,376 |
| New South Wales | 6,506 | 6,177 | 129 | 12,812 |
| New England | 1,286 | 215 | 2,901 | 4,402 |
| Newcastle | 861 | 1,041 | .. | 1,902 |
| Macquarie | 349 | 701 | 221 | 1,271 |
| Melbourne | 9,707 | 4,023 | 421 | 14,151 |
| Monash | 5,801 | 1,316 | .. | 7,117 |
| La Trobe | 448 | 104 | .. | 552 |
| Queensland | 7,299 | 5,245 | 2,709 | 15,253 |
| Adelaide | 5,560 | 2,874 | 394 | 8,828 |
| Flinders | 738 | 92 | .. | 830 |
| Western Australia | 3,796 | 1,926 | 305 | 6,027 |
| Tasmania | 1,623 | 643 | 177 | 2,443 |
| Total | 58,325 | 29,798 | 7,257 | 95,380 |

UNIVERSITIES: FULL-TIME, PART-TIME AND EXTERNAL STUDENTS, AUSTRALIA, 1963 TO 1967

| <i>Year</i> | <i>Full-time</i> | <i>Part-time</i> | <i>External</i> | <i>Total</i> |
|-------------|------------------|------------------|-----------------|--------------|
| 1963 . . . | 39,098 | 23,585 | 6,391 | 69,074 |
| 1964 . . . | 44,500 | 25,143 | 6,545 | 76,188 |
| 1965 . . . | 50,202 | 26,235 | 6,912 | 83,349 |
| 1966 . . . | 56,279 | 27,860 | 7,152 | 91,291 |
| 1967 . . . | 58,325 | 29,798 | 7,257 | 95,380 |

Assistance to university students

The Commonwealth Government, through the Commonwealth Scholarships Board, grants undergraduate and post-graduate scholarships to university students. (Details of the Commonwealth Scholarship Scheme are given on page 549.) Commonwealth, State and local governments also award cadetships and other assistance to their employees. Foreign students are assisted by the Commonwealth Government under arrangements such as the Colombo Plan. The universities themselves grant exhibitions and scholarships as well as special assistance to teachers, etc.

UNIVERSITIES: ASSISTED STUDENTS, 1967

| <i>University</i> | <i>Source of assistance</i> | | | | <i>Adjusted total (a)</i> | <i>Type of course</i> | |
|---------------------------|--------------------------------|--------------------------|---------------------|--------------|---------------------------|-----------------------|---------------|
| | <i>Commonwealth Government</i> | <i>State Governments</i> | <i>Universities</i> | <i>Other</i> | | <i>Higher degrees</i> | <i>Other</i> |
| Australian National . . . | 755 | 1 | 928 | 43 | 1,622 | 506 | 1,116 |
| Sydney | 5,489 | 2,903 | 3,815 | 114 | 9,137 | 740 | 8,397 |
| New South Wales | 2,802 | 1,105 | 2,016 | 759 | 5,658 | 677 | 4,981 |
| New England | 457 | 513 | 1,774 | 49 | 2,780 | 234 | 2,546 |
| Newcastle | 339 | 423 | 660 | 80 | 1,090 | 60 | 1,030 |
| Macquarie | 62 | 7 | 309 | 10 | 384 | 24 | 360 |
| Melbourne | 5,472 | 2,470 | 3,576 | 149 | 9,493 | 697 | 8,796 |
| Monash | 2,497 | 2,316 | 419 | 29 | 5,236 | 414 | 4,822 |
| La Trobe | 85 | 212 | 18 | 1 | 316 | 19 | 297 |
| Queensland | 4,033 | 892 | 602 | 207 | 5,734 | 534 | 5,200 |
| Adelaide | 2,656 | 2,079 | 1,259 | 164 | 5,892 | 466 | 5,426 |
| Flinders | 248 | 363 | 37 | 7 | 630 | 58 | 572 |
| Western Australia | 1,726 | 879 | 89 | 155 | 2,785 | 173 | 2,612 |
| Tasmania | 699 | 537 | 114 | 46 | 1,322 | 93 | 1,229 |
| Total | 27,320 | 14,700 | 15,616 | 1,813 | 52,079 | 4,695 | 47,384 |

(a) Adjustment made for students assisted from more than one source.

UNIVERSITIES: ASSISTED STUDENTS, AUSTRALIA, 1963 TO 1967

| <i>Form of assistance</i> | <i>1963</i> | <i>1964</i> | <i>1965</i> | <i>1966</i> | <i>1967</i> |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|
| Government assistance . . . | 26,670 | 31,035 | 34,221 | 38,779 | 42,020 |
| University assistance | 12,063 | 13,765 | 14,875 | 15,298 | 15,616 |
| Other assistance | 1,620 | 1,771 | 1,904 | 2,161 | 1,813 |
| Adjusted total(a) | 33,678 | 39,416 | 43,406 | 48,175 | 52,079 |

(a) Adjustment made for students assisted from more than one source.

Resident university students

In 1967, 8,401 full-time and 238 part-time students were in residence at affiliated colleges, halls of residence and university hostels. The 8,639 students in residence were distributed as follows: Australian National University, 921; Sydney, 1,197; New South Wales, 441; New England, 1,031; Melbourne, 1,676; Monash, 514; La Trobe, 111; Queensland, 1,358; Adelaide, 396; Flinders, 17; Western Australia, 645; and Tasmania, 332. There were 6,193 male students and 2,446 female students in residence.

University degrees conferred, etc.**UNIVERSITIES: DEGREES CONFERRED, AND DIPLOMAS AND CERTIFICATES GRANTED YEAR ENDED 31 JULY 1967**

| Course | Australian National | | Sydney | | New South Wales | | New England | | Newcastle | | Melbourne | |
|---|---------------------|-----|--------|-----|-----------------|-----|-------------|-----|-----------|----|-----------|-----|
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. |
| Degrees— | | | | | | | | | | | | |
| Arts | 105 | 97 | 447 | 479 | 66 | 99 | 191 | 81 | 45 | 62 | 276 | 372 |
| Divinity | .. | .. | 3 | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Psychology | .. | .. | .. | .. | 15 | 1 | .. | .. | .. | .. | .. | .. |
| Social studies and social work | 3 | 2 | .. | .. | 1 | 2 | .. | .. | .. | .. | .. | .. |
| Education | .. | .. | 25 | 15 | .. | .. | .. | .. | .. | .. | 54 | 14 |
| Music | .. | .. | 2 | 1 | .. | .. | .. | .. | .. | .. | 6 | 24 |
| Law | 18 | .. | 138 | 13 | .. | .. | .. | .. | .. | .. | 147 | 45 |
| Commerce, economics | 39 | .. | 174 | 17 | 168 | 12 | 10 | 3 | 23 | .. | 236 | 35 |
| Medicine, surgery | 11 | .. | 263 | 48 | 25 | 5 | .. | .. | .. | .. | 145 | 24 |
| Optometry | .. | .. | .. | .. | 2 | .. | .. | .. | .. | .. | .. | .. |
| Pharmacy | .. | .. | 77 | 79 | .. | .. | .. | .. | .. | .. | .. | .. |
| Physiotherapy | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Dentistry | .. | .. | 49 | 5 | .. | .. | .. | .. | .. | .. | 37 | 3 |
| Science | 65 | 28 | 372 | 189 | 311 | 45 | 80 | 24 | 30 | 6 | 329 | 93 |
| Applied science | .. | .. | .. | .. | 52 | .. | .. | .. | 7 | .. | 11 | 1 |
| Engineering and technology | .. | .. | 191 | 1 | 361 | .. | .. | .. | 24 | .. | 199 | .. |
| Surveying | .. | .. | .. | .. | 18 | .. | .. | .. | .. | .. | 1 | .. |
| Architecture and town planning | .. | .. | 39 | 6 | 58 | 2 | .. | .. | 2 | .. | 70 | 5 |
| Building | .. | .. | 9 | .. | 9 | .. | .. | .. | .. | .. | 5 | .. |
| Agriculture | .. | .. | 55 | 10 | .. | .. | 33 | 2 | .. | .. | 33 | 4 |
| Agricultural economics | .. | .. | .. | .. | .. | .. | 24 | 3 | .. | .. | .. | .. |
| Forestry | 28 | .. | 1 | .. | .. | .. | .. | .. | .. | .. | 7 | .. |
| Veterinary science | .. | .. | 43 | 6 | .. | .. | .. | .. | .. | .. | 1 | .. |
| <i>Total degrees</i> | 269 | 127 | 1,888 | 869 | 1,086 | 166 | 338 | 113 | 131 | 68 | 1,557 | 620 |
| Post-graduate diplomas— | | | | | | | | | | | | |
| Education, psychology, etc. | .. | .. | 147 | 308 | 31 | 78 | 63 | 65 | 22 | 35 | 62 | 43 |
| Law | .. | .. | 5 | 1 | .. | .. | .. | .. | .. | .. | 2 | .. |
| Medical, etc. | .. | .. | 40 | 5 | .. | .. | .. | .. | .. | .. | 11 | 1 |
| Science, engineering, etc. | .. | .. | 12 | 1 | 52 | 1 | .. | .. | 13 | .. | 7 | .. |
| Agriculture | .. | .. | 5 | .. | .. | .. | 2 | .. | .. | .. | 7 | .. |
| <i>Total post-graduate diplomas</i> | .. | .. | 209 | 315 | 83 | 79 | 65 | 65 | 35 | 35 | 89 | 44 |
| Sub-graduate diplomas | .. | .. | 2 | 29 | 4 | 4 | .. | .. | .. | .. | 32 | 71 |
| Certificates | .. | .. | .. | .. | 268 | 3 | .. | .. | .. | .. | .. | .. |

Table continued on next page.

UNIVERSITIES: DEGREES CONFERRED, AND DIPLOMAS AND CERTIFICATES GRANTED
YEAR ENDED 31 JULY 1967—*continued*

| Course | Monash | | Queens- land | | Adelaide | | Flinders | | Western Australia | | Tas- mania | | All universities | |
|---|--------|-----|-----------------|-----|----------|-----|----------|----|----------------------|-----|---------------|----|---------------------|-------|
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. |
| Degrees— | | | | | | | | | | | | | | |
| Arts | 124 | 161 | 147 | 205 | 143 | 133 | .. | .. | 132 | 124 | 58 | 88 | 1,734 | 1,901 |
| Divinity | .. | .. | 2 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 5 | .. |
| Psychology | .. | .. | 1 | .. | .. | .. | .. | .. | 7 | 6 | .. | .. | 23 | 7 |
| Social studies and social work | .. | .. | 12 | 23 | .. | .. | .. | .. | .. | .. | .. | .. | 16 | 27 |
| Education | 3 | .. | 70 | 7 | .. | 1 | .. | .. | 39 | 4 | .. | .. | 191 | 41 |
| Music | .. | .. | .. | .. | 5 | 8 | .. | .. | 2 | 1 | .. | .. | 15 | 34 |
| Law | 31 | 3 | 30 | 1 | 40 | 12 | .. | .. | 32 | 4 | 17 | 1 | 453 | 79 |
| Commerce, economics | 84 | 8 | 126 | 14 | 67 | 2 | .. | .. | 61 | 10 | 26 | .. | 1,014 | 101 |
| Medicine, surgery . . . | 28 | 4 | 105 | 15 | 85 | 21 | .. | .. | 27 | 12 | .. | .. | 689 | 129 |
| Optometry | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 2 | .. |
| Pharmacy | .. | .. | 35 | 17 | .. | .. | .. | .. | .. | .. | .. | .. | 112 | 96 |
| Physiotherapy | .. | .. | .. | 3 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 3 |
| Dentistry | .. | .. | 28 | .. | 18 | 1 | .. | .. | 11 | 2 | .. | .. | 143 | 11 |
| Science | 56 | 11 | 290 | 74 | 301 | 46 | 3 | 1 | 144 | 23 | 58 | 8 | 2,039 | 548 |
| Applied science | .. | .. | 3 | .. | 12 | .. | .. | .. | .. | .. | .. | .. | 85 | 1 |
| Engineering and tech- nology | 41 | .. | 150 | .. | 156 | .. | .. | .. | 37 | .. | 18 | .. | 1,177 | 1 |
| Surveying | .. | .. | 7 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 26 | .. |
| Architecture and town planning | .. | .. | 27 | 1 | 16 | 3 | .. | .. | .. | .. | .. | .. | 212 | 17 |
| Building | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 23 | .. |
| Agriculture | .. | .. | 44 | 2 | 31 | 2 | .. | .. | 23 | 2 | 5 | .. | 224 | 22 |
| Agricultural econom- ics | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 24 | 3 |
| Forestry | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .. | 37 | .. |
| Veterinary science . . . | .. | .. | 74 | 6 | .. | .. | .. | .. | .. | .. | .. | .. | 118 | 12 |
| <i>Total degrees</i> | 367 | 187 | 1,151 | 368 | 874 | 229 | 3 | 1 | 516 | 188 | 182 | 97 | 8,362 | 3,033 |
| Post-graduate diplomas— | | | | | | | | | | | | | | |
| Education, psycho- logy, etc. | 86 | 76 | 44 | 32 | 38 | 19 | .. | .. | 44 | 28 | 23 | 24 | 560 | 708 |
| Law | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 7 | 1 |
| Medical, etc. | .. | .. | 2 | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 53 | 7 |
| Science, engineering, etc. | .. | .. | 7 | .. | 3 | .. | .. | .. | 3 | .. | .. | .. | 97 | 2 |
| Agriculture | .. | .. | 5 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 19 | .. |
| <i>Total post-graduate diplomas</i> | 86 | 76 | 58 | 33 | 41 | 19 | .. | .. | 47 | 28 | 23 | 24 | 736 | 718 |
| Sub-graduate diplomas . | .. | .. | 22 | 82 | 86 | 106 | .. | .. | .. | .. | 7 | .. | 153 | 292 |
| Certificates | .. | .. | 208 | 55 | .. | .. | .. | .. | .. | .. | 19 | 17 | 495 | 75 |

Table continued from previous page.

No degrees were awarded at Macquarie or La Trobe universities in 1967.

UNIVERSITIES: DEGREES CONFERRED, AUSTRALIA, 1963 TO 1967

| Degree | 1963 | | | 1964 | | | 1965 | | | 1966 | | | 1967 | | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | M. | F. | P. | M. | F. | P. | M. | F. | P. | M. | F. | P. | M. | F. | P. |
| Arts | 936 | 947 | 1,883 | 1,103 | 1,107 | 2,210 | 1,231 | 1,251 | 2,482 | 1,466 | 1,54 | 3,008 | 1,734 | 1,901 | 3,635 |
| Divinity | 1 | .. | 1 | 3 | .. | 3 | 2 | .. | 2 | 5 | .. | 5 | 5 | .. | 5 |
| Psychology | 12 | 1 | 13 | 4 | 1 | 5 | 13 | 4 | 17 | 13 | 5 | 18 | 23 | 7 | 30 |
| Social studies and social work | 6 | 8 | 14 | 4 | 9 | 13 | 14 | 6 | 20 | 15 | 12 | 27 | 16 | 27 | 43 |
| Education | 103 | 20 | 123 | 114 | 29 | 143 | 114 | 37 | 151 | 191 | 35 | 226 | 191 | 41 | 232 |
| Music | 8 | 25 | 33 | 13 | 19 | 32 | 12 | 26 | 38 | 15 | 24 | 39 | 15 | 34 | 49 |
| Law | 260 | 39 | 299 | 297 | 43 | 340 | 367 | 41 | 408 | 383 | 57 | 440 | 453 | 79 | 532 |
| Commerce, economics | 545 | 59 | 604 | 695 | 59 | 754 | 705 | 56 | 761 | 850 | 79 | 929 | 1,014 | 101 | 1,115 |
| Medicine, surgery | 538 | 74 | 612 | 572 | 83 | 655 | 605 | 99 | 704 | 673 | 114 | 787 | 689 | 129 | 818 |
| Optometry | .. | .. | .. | .. | .. | .. | 6 | .. | 6 | 6 | .. | 6 | 2 | .. | 2 |
| Pharmacy | 53 | 39 | 92 | 76 | 52 | 128 | 119 | 71 | 190 | 123 | 110 | 233 | 112 | 96 | 208 |
| Physiotherapy | 1 | 3 | 4 | .. | 1 | 1 | .. | 1 | 1 | .. | 10 | 10 | .. | 3 | 3 |
| Dentistry | 145 | 3 | 148 | 143 | 17 | 160 | 139 | 6 | 145 | 103 | 3 | 106 | 143 | 11 | 154 |
| Science | 1,243 | 334 | 1,577 | 1,387 | 368 | 1,755 | 1,609 | 434 | 2,043 | 1,874 | 476 | 2,350 | 2,039 | 548 | 2,587 |
| Applied science | 37 | .. | 37 | 36 | .. | 36 | 53 | 3 | 56 | 78 | 4 | 82 | 85 | 1 | 86 |
| Engineering and technology | 829 | 1 | 830 | 912 | .. | 912 | 969 | 3 | 972 | 1,031 | 7 | 1,038 | 1,177 | 1 | 1,178 |
| Surveying | 15 | .. | 15 | 14 | .. | 14 | 25 | .. | 25 | 25 | .. | 25 | 26 | .. | 26 |
| Architecture and town planning | 133 | 8 | 141 | 128 | 13 | 141 | 156 | 15 | 171 | 208 | 17 | 225 | 212 | 17 | 229 |
| Building | 6 | .. | 6 | 6 | .. | 6 | 15 | .. | 15 | 21 | .. | 21 | 23 | .. | 23 |
| Agriculture and agricultural economics | 205 | 17 | 222 | 204 | 18 | 222 | 227 | 31 | 258 | 221 | 17 | 238 | 248 | 25 | 273 |
| Forestry | 29 | .. | 29 | 31 | .. | 31 | 38 | .. | 38 | 41 | .. | 41 | 37 | .. | 37 |
| Veterinary science | 79 | 4 | 83 | 93 | 7 | 100 | 119 | 5 | 124 | 109 | 4 | 113 | 118 | 12 | 130 |
| Total— | | | | | | | | | | | | | | | |
| Higher doctorates | 32 | 1 | 33 | 32 | 2 | 34 | 36 | 1 | 37 | 44 | 3 | 47 | 38 | 2 | 40 |
| Ph.D. degrees | 161 | 13 | 174 | 188 | 15 | 203 | 251 | 25 | 276 | 312 | 24 | 336 | 295 | 32 | 327 |
| Master degrees | 319 | 47 | 366 | 342 | 45 | 387 | 394 | 81 | 475 | 489 | 76 | 565 | 539 | 96 | 635 |
| Bachelor degrees | 4,672 | 1,521 | 6,193 | 5,273 | 1,764 | 7,037 | 5,857 | 1,982 | 7,839 | 6,606 | 2,413 | 9,019 | 7,490 | 2,903 | 10,393 |
| Grand total | 5,184 | 1,582 | 6,766 | 5,835 | 1,826 | 7,661 | 6,538 | 2,089 | 8,627 | 7,451 | 2,516 | 9,967 | 8,362 | 3,033 | 11,395 |

University finance

Australian universities are incorporated by statute. Since their establishment they have come to depend greatly on government grants for their income. In recent years large amounts have been required for new buildings, as well as for current expenditure to provide staff and equipment to cope with increased student enrolments. In 1966 income from other than State and Commonwealth grants, including student fees, amounted to just over one-fifth of the total income. Income from non-government sources includes grants, mainly for research purposes, from businesses, international foundations and private individuals. Some income is also received from endowments.

Financial assistance to universities from the Commonwealth Government

Prior to 1939 Commonwealth assistance was almost entirely concerned with research projects carried out by or in collaboration with the universities. During and since the 1939–45 War the Commonwealth extended assistance to university students, at first to increase the number of highly trained people required for the war effort, then with the object of rehabilitating ex-servicemen, and finally as a social service benefit to the community. For the purpose of reconstruction training the Commonwealth Government made available to the universities approximately \$2 million for buildings and \$1 million for equipment.

Following a report submitted by a committee of inquiry appointed to report on university finances and requirements, the Commonwealth, since 1951, has made matched grants to the States for recurrent expenditure on university purposes and unmatched grants for university halls of residence and affiliated residential colleges. Since 1958 the Commonwealth has also assisted with the capital needs of the universities for building projects and for equipment, and grants for the building programmes of residential colleges affiliated with universities, including university halls of residence. In the 1961–63 triennium the Commonwealth matched State grants for buildings at teaching hospitals and in 1960 instituted grants for research at universities. As well as making grants available for State universities, the Commonwealth has continued to support the university institutions for which it is responsible.

In 1959, following the Report of the Committee on Australian Universities, the Commonwealth Government established the Australian Universities Commission under the *Australian Universities Commission Act 1949*. The Commission's principal functions are to advise the Prime Minister on financial assistance to Commonwealth universities and to States in relation to their universities and also on the balanced development of Australian universities. The Commission commenced its work in July 1959. Since its establishment the Commission has produced three reports; the first, presented

UNIVERSITY DEGREES CONFERRED: AUSTRALIA

1958 TO 1967

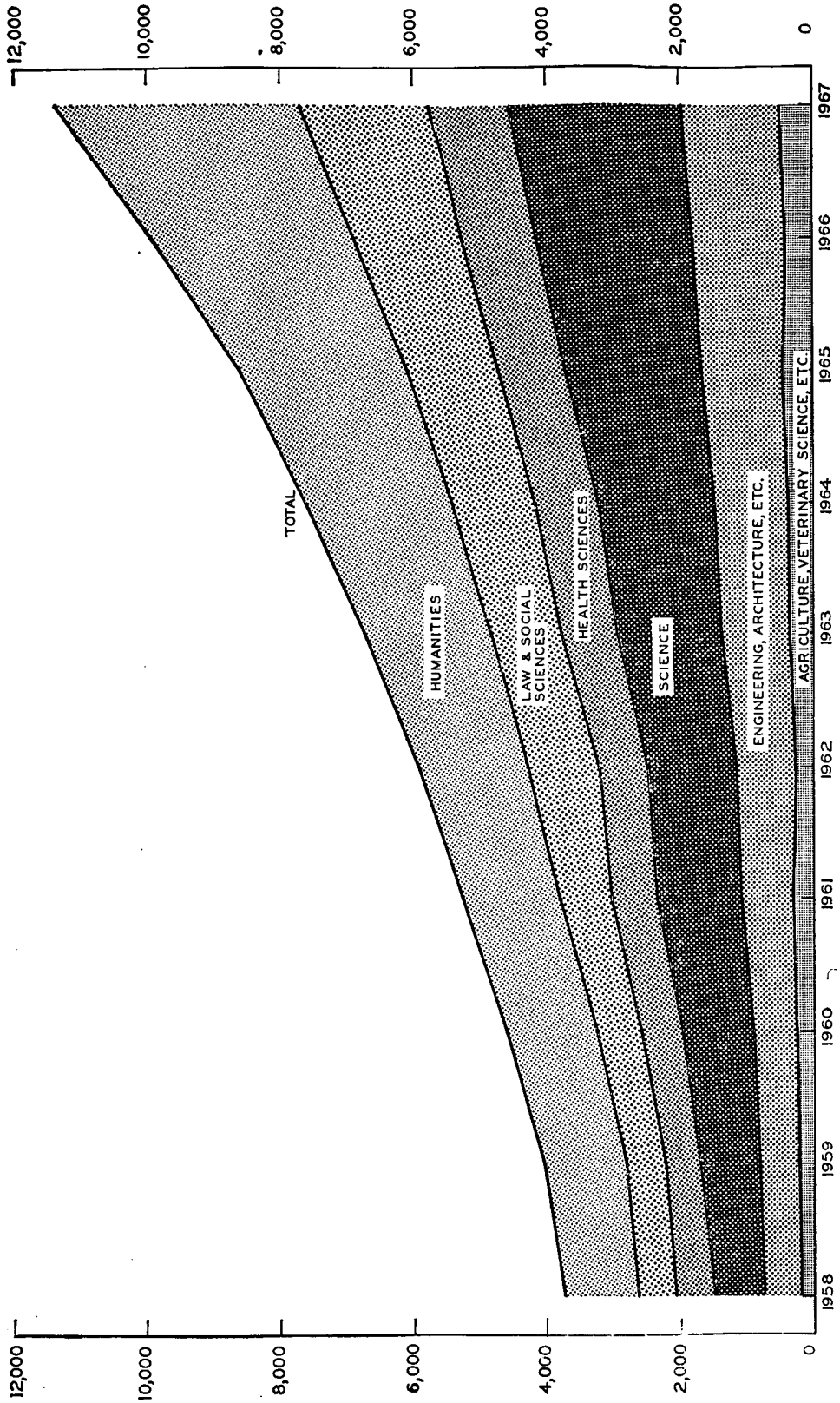


PLATE 44

in October 1960 and covering the years 1961 to 1963, recommended Commonwealth grants totalling \$86 million for State universities. The Commission later recommended a Commonwealth grant of \$4 million for teaching hospitals. *The States Grants (Universities) Act 1960-1964* gave effect to the financial recommendations contained in the Commission's first report and subsequent recommendations for 1961-63. The Commission's second report was presented in August 1963, and recommended Commonwealth grants totalling more than \$121 million for State universities, subsequently increased by \$3.4 million for teaching hospitals, for the period 1964 to 1966. The *Universities (Financial Assistance) Act 1963-1966* gave effect to the financial recommendations contained in the Commission's second report and subsequent recommendations for 1964-66. In August 1966 the third report was presented. It recommended Commonwealth grants to the State universities of almost \$200 million for the period 1967-69, including almost \$6 million for teaching hospitals. The Commonwealth Government's grant, including \$5.7 million for teaching hospitals, was fixed following discussion with State governments, at \$181 million (including its share of the cost of increases in academic salaries as from 1 July 1967). The Act giving effect to these grants is the *Universities (Financial Assistance) Act 1966-67*.

Commonwealth grants for recurrent expenditure in universities. This is a continuation of matched grants provided since 1951. The maximum amounts available in 1964 to 1969 are shown in the following table. These amounts have been adjusted to allow for the recommendations of the Report of the Inquiry into Academic Salaries by Mr Justice Eggleston in 1964.

STATE UNIVERSITIES, ETC.: COMMONWEALTH GRANTS FOR
RECURRENT EXPENDITURE, 1964 TO 1969
(\$'000)

| University, etc. | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 |
|--|---------------|---------------|---------------|---------------|---------------|---------------|
| Sydney | 4,640 | 5,154 | 5,676 | 6,139 | 6,699 | 7,043 |
| New South Wales(a) | 4,450 | 4,352 | 4,832 | 5,247 | 5,748 | 6,186 |
| New England | 1,364 | 1,454 | 1,550 | 1,678 | 1,824 | 1,920 |
| Newcastle | .. | 618 | 704 | 809 | 938 | 1,028 |
| Macquarie | .. | 112 | 224 | 646 | 1,008 | 1,458 |
| Melbourne | 3,868 | 4,298 | 4,796 | 5,265 | 5,763 | 6,032 |
| Monash | 2,072 | 2,770 | 3,358 | 3,995 | 4,580 | 4,982 |
| La Trobe | .. | 106 | 218 | 554 | 924 | 1,275 |
| Queensland | 2,808 | 3,238 | 3,644 | 4,153 | 4,696 | 5,068 |
| Townsville | 160 | 192 | 278 | 378 | 489 | 608 |
| Adelaide | 2,470 | 2,648 | 2,828 | 3,051 | 3,305 | 3,393 |
| Flinders | 112 | 208 | 418 | 732 | 882 | 1,010 |
| Western Australia | 1,794 | 1,974 | 2,166 | 2,398 | 2,668 | 2,857 |
| Tasmania | 744 | 844 | 942 | 1,073 | 1,214 | 1,324 |
| South Australian Institute of Technology | 230 | 258 | 290 | (b) | (b) | (b) |
| Total | 24,712 | 28,226 | 31,924 | 36,118 | 40,738 | 44,184 |

(a) Includes grants for the university colleges at Wollongong and Broken Hill and, for 1964, the University College of Newcastle which became the University of Newcastle as from 1 January 1965. (b) In 1967-69 Commonwealth grants are made through the Commonwealth Advisory Committee on Advanced Education.

Since 1961 matched grants have been made on a basis of \$1 by the Commonwealth for every \$1.85 of income received by a university from fees and State grants. From 1951 to 1960 the ratio was, in general, \$1 to \$3.

Commonwealth grants for the teaching and administrative costs of halls of residence and residential colleges. From 1964 the grants consist of unmatched Commonwealth payments each year of \$5,000 (previously \$4,000) to each college affiliated with or administered by a university, plus the sum of \$30 for each resident student, and a further \$10 for each non-resident student receiving tutorial assistance. The total Commonwealth grant paid in 1966 was \$512,390. In the period 1967 to 1969 the basic grant for affiliated residential colleges will be varied according to the size of the colleges. Colleges with fewer than 100 students will continue to receive \$5,000 per annum, while colleges enrolling 100, 120, 140, 160 and 180 students will receive extra grants in increments of \$500 up to a maximum grant of \$7,500 for a college of 180 or more students. For university halls of residence a Commonwealth grant of \$5,000 per annum is payable without variation for the number of students.

Commonwealth grants for recurrent expenditure in university teaching hospitals. Since 1965 the Commonwealth Government has supported recurrent expenditure at teaching hospitals affiliated

with universities. During 1966 the Commission held discussions concerning capital and recurrent grants for the 1967-69 triennium with the eight universities having medical schools. The Commonwealth Government's support for recurrent grants in 1967 to 1969 relates to three items of expenditure. These are maintenance and service costs incurred on behalf of clinical students, administrative costs involved in clinical teaching, and books for students at libraries of teaching hospitals. The table below sets out the Commonwealth recurrent grants for teaching hospitals for 1965 and 1966 and those approved for each year of the 1967-69 triennium.

**STATE UNIVERSITIES: MAXIMUM COMMONWEALTH GRANTS FOR
RECURRENT EXPENDITURE AT TEACHING HOSPITALS, 1965 TO 1969**
(\$)

| <i>University</i> | <i>1965</i> | <i>1966</i> | <i>1967</i> | <i>1968</i> | <i>1969</i> |
|-----------------------------|----------------|----------------|----------------|----------------|----------------|
| Sydney | 38,600 | 74,000 | 100,141 | 102,646 | 105,979 |
| New South Wales | 7,800 | 19,000 | | | |
| Melbourne | 26,200 | 54,400 | 51,228 | 52,912 | 53,860 |
| Monash | 9,400 | 22,000 | 27,579 | 31,298 | 33,404 |
| Queensland | 15,200 | 31,600 | 37,544 | 39,509 | 40,141 |
| Adelaide | 13,600 | 27,600 | 20,505 | 20,315 | 20,315 |
| Western Australia | 9,600 | 19,400 | 18,758 | 19,305 | 19,557 |
| Tasmania | .. | 1,400 | 4,211 | 4,617 | 6,196 |
| Total | 120,400 | 249,400 | 259,966 | 270,602 | 279,452 |

The basis of these grants is \$1 from the Commonwealth for every \$1.85 of income received by a university from fees and State grants for these purposes.

Commonwealth grants for building projects in universities. These grants, for the period 1967 to 1969, are shown in detail in the Second Schedule to the *Universities (Financial Assistance) Act 1966*. Payments are made up to a given maximum for each project, on the basis of \$1 from the Commonwealth for every \$1 of State grants. Since 1964 the grant, where appropriate, has included an allowance for furnishings and equipment. Previously, separate grants were provided for these items. Also, since 1964 the schedule showing grants for university building projects includes grants for university computing facilities, but grants for the erection and alteration of buildings for halls of residence administered by universities are shown elsewhere. The total Commonwealth grant under this heading for each university is shown in the following table.

**STATE UNIVERSITIES: MAXIMUM
COMMONWEALTH GRANTS FOR BUILDING
PROJECTS, ETC., 1964 TO 1969**
(\$'000)

| <i>University</i> | <i>1964-66</i> | <i>1967-69</i> |
|-----------------------------|----------------|----------------|
| Sydney | 4,679 | 4,049 |
| New South Wales | 3,800 | 3,799 |
| Wollongong | 79 | 506 |
| New England | 1,353 | 1,300 |
| Newcastle | 1,020 | 1,800 |
| Macquarie | 2,100 | 3,905 |
| Melbourne | 4,813 | 4,080 |
| Monash | 4,470 | 4,830 |
| La Trobe | 1,410 | 5,838 |
| Queensland | 2,737 | 3,280 |
| Townsville | 380 | 1,768 |
| Nathan | 100 | 100 |
| Adelaide | 832 | 1,484 |
| Flinders | 2,835 | 2,161 |
| Western Australia | 1,921 | 2,000 |
| Tasmania | 936 | 1,008 |
| Total | 33,465 | 41,908 |

Commonwealth grants for buildings for halls of residence and affiliated residential colleges. The *States Grants (Universities) Act 1963* shows the grant available to each university for both types of student residence in the Fourth Schedule. Previously, grants for buildings for university-administered halls of residence were included in the Schedule showing university building projects. Payments were made up to a given maximum for each project. For halls of residence the grant comprised \$1 from the Commonwealth for every \$1 of State grants. For affiliated residential colleges Commonwealth grants were up to half of the cost of a project, the other half being met from college or State government sources. For the 1964-66 triennium, however, payments were made up to a given maximum for each project on the basis of \$1 from the Commonwealth for every \$1 of residential college funds and State grants. This basis is to be continued for the 1967-69 triennium. The maximum Commonwealth grants available for each State university in this triennium are shown in the following table.

**STATE UNIVERSITIES: MAXIMUM
COMMONWEALTH GRANTS FOR BUILDINGS
FOR HALLS OF RESIDENCE AND AFFILIATED
RESIDENTIAL COLLEGES, 1964 TO 1969**

(\$)

| <i>University</i> | <i>1964-66</i> | <i>1967-69</i> |
|-----------------------------|------------------|------------------|
| Sydney | 773,250 | 528,000 |
| New South Wales | 687,000 | 1,026,000 |
| New England | 898,500 | 1,134,000 |
| Melbourne | 1,015,791 | 1,062,000 |
| Monash | 1,110,000 | 1,566,000 |
| La Trobe | 440,000 | 586,000 |
| Queensland | 647,259 | 926,000 |
| Townsville | 400,000 | 919,000 |
| Adelaide | 309,200 | 430,000 |
| Flinders | 35,000 | .. |
| Western Australia | 756,500 | 374,000 |
| Tasmania | 262,500 | 401,000 |
| Total | 7,335,000 | 8,952,000 |

Commonwealth grants for building projects in teaching hospitals. Since 1961 the Commonwealth Government has supported building grants recommended by the Commission for teaching hospitals. The total Commonwealth grants under this heading for 1961-63, 1964-66 and those approved for 1967-69 are shown in the following table. Payments are made on the basis of \$1 from the Commonwealth for every \$1 of income received by universities from fees and State grants for this purpose. Where appropriate the grants include an allowance for furnishings and equipment.

**STATE UNIVERSITIES: MAXIMUM COMMONWEALTH
GRANTS FOR BUILDING PROJECTS, ETC. AT
TEACHING HOSPITALS, 1961 TO 1969**

(\$)

| <i>University</i> | <i>1961-63</i> | <i>1964-66</i> | <i>1967-69</i> |
|-----------------------------|------------------|------------------|------------------|
| Sydney | 746,370 | 582,700 | 900,000 |
| New South Wales | 588,920 | 179,500 | |
| Melbourne | 685,475 | 617,500 | 1,417,000 |
| Monash | 832,195 | 384,600 | 673,300 |
| Queensland | 565,310 | 525,150 | 269,300 |
| Adelaide | 216,510 | 640,400 | 92,500 |
| Western Australia | 65,106 | 63,350 | 795,000 |
| Tasmania | .. | 118,500 | 780,000 |
| Total | 3,699,886 | 3,111,700 | 4,927,100 |

Commonwealth grants for special research projects in universities. A Commonwealth grant of \$1 million was made in the 1961-63 triennium for research equipment on the basis of \$1 from the Commonwealth for every \$1 of State grants. For the 1964-66 triennium the Australian Universities

Commission recommended a Commonwealth grant for special research purposes of \$5 million for the State universities on the basis of \$1 from the Commonwealth for every \$1 of State grants. Of this amount a Commonwealth grant of \$3 million was allocated by the Commission in agreement with State governments. The remaining \$2 million was allocated by the Australian Research Grants Committee (*see* page 549) to individuals or research teams whether inside or outside universities. For the 1967-69 triennium the Commonwealth is providing \$9 million for allocation by the Committee. Grants to universities for general research purposes are being made by the States.

University income and expenditure

The following tables show particulars of the income and expenditure of each university in 1966 and the totals for 1962 to 1966.

UNIVERSITIES: INCOME, 1966 (\$'000)

| University | Government grants(a) | | Other income | | | Total income |
|---------------------|------------------------|-------------------------|------------------------------|------------------|--------------|---------------|
| | Cwth Government grants | State Government grants | Donations and endowments (b) | Student fees (c) | Other income | |
| Australian National | 4,589 | .. | .. | .. | 133 | 4,722 |
| Sydney | 1,976 | 2,713 | 287 | .. | .. | 4,976 |
| New South Wales | 1,527 | 1,775 | 40 | .. | .. | 3,341 |
| New England | 438 | 591 | .. | .. | 30 | 1,059 |
| Newcastle | 99 | 728 | 62 | .. | .. | 889 |
| Macquarie | 1,221 | 2,753 | .. | .. | .. | 3,974 |
| Melbourne | 1,997 | 3,706 | 184 | .. | 140 | 6,027 |
| Monash | 1,245 | 1,245 | 96 | .. | .. | 2,585 |
| La Trobe | 1,474 | 1,669 | .. | .. | .. | 3,143 |
| Queensland | 2,194 | 2,377 | .. | .. | .. | 4,571 |
| Adelaide | 217 | 217 | .. | .. | .. | 435 |
| Flinders | 553 | 558 | .. | .. | 74 | 1,185 |
| Western Australia | 1,226 | 1,237 | .. | .. | .. | 2,463 |
| Tasmania | 93 | 93 | 41 | .. | .. | 227 |
| <i>Total</i> | <i>18,847</i> | <i>19,663</i> | <i>710</i> | <i>..</i> | <i>377</i> | <i>39,597</i> |

INCOME FOR SPECIFIC CAPITAL PURPOSES(d)

| | | | | | | |
|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Australian National | .. | .. | .. | .. | .. | .. |
| Sydney | .. | .. | .. | .. | .. | .. |
| New South Wales | .. | .. | .. | .. | .. | .. |
| New England | .. | .. | .. | .. | .. | .. |
| Newcastle | .. | .. | .. | .. | .. | .. |
| Macquarie | .. | .. | .. | .. | .. | .. |
| Melbourne | .. | .. | .. | .. | .. | .. |
| Monash | .. | .. | .. | .. | .. | .. |
| La Trobe | .. | .. | .. | .. | .. | .. |
| Queensland | .. | .. | .. | .. | .. | .. |
| Adelaide | .. | .. | .. | .. | .. | .. |
| Flinders | .. | .. | .. | .. | .. | .. |
| Western Australia | .. | .. | .. | .. | .. | .. |
| Tasmania | .. | .. | .. | .. | .. | .. |
| <i>Total</i> | <i>..</i> | <i>..</i> | <i>..</i> | <i>..</i> | <i>..</i> | <i>..</i> |

INCOME FOR OTHER PURPOSES

| | | | | | | |
|---------------------|---------------|---------------|---------------|---------------|--------------|----------------|
| Australian National | 13,563 | .. | 276 | 318 | 1,169 | 15,326 |
| Sydney | 6,388 | 7,939 | 4,043 | 3,236 | 538 | 22,144 |
| New South Wales | 5,763 | 7,012 | 852 | 2,412 | 814 | 16,852 |
| New England | 1,863 | 2,466 | 183 | 456 | 870 | 5,838 |
| Newcastle | 760 | 1,184 | 48 | 271 | 27 | 2,289 |
| Macquarie | 224 | 566 | 90 | .. | 55 | 935 |
| Melbourne | 6,282 | 6,391 | 1,376 | 3,187 | 981 | 18,217 |
| Monash | 3,608 | 5,097 | 599 | 1,371 | 383 | 11,057 |
| La Trobe | 246 | 430 | 18 | .. | 19 | 713 |
| Queensland | 4,133 | 4,894 | 2,379 | 2,530 | 489 | 14,425 |
| Adelaide | 3,927 | 4,421 | 501 | 1,227 | 543 | 10,620 |
| Flinders | 539 | 807 | 16 | 63 | 9 | 1,435 |
| Western Australia | 2,782 | 3,080 | 639 | 1,155 | 633 | 8,288 |
| Tasmania | 1,169 | 1,457 | 107 | 426 | 146 | 3,305 |
| <i>Total</i> | <i>51,245</i> | <i>45,743</i> | <i>11,127</i> | <i>16,653</i> | <i>6,676</i> | <i>131,444</i> |

For footnotes *see* next page.

UNIVERSITIES: INCOME, 1966—continued
 (\$'000)

| University | Government grants(a) | | Other income | | | Total income |
|--------------------------------------|------------------------|-------------------------|------------------------------|------------------|--------------|----------------|
| | Cwth Government grants | State Government grants | Donations and endowments (b) | Student fees (c) | Other income | |
| | | | | | | |
| TOTAL INCOME | | | | | | |
| Australian National Sydney | 18,152 | .. | 276 | 318 | 1,302 | 20,048 |
| Sydney | 8,364 | 10,652 | 4,329 | 3,236 | 538 | 27,120 |
| New South Wales | 7,289 | 8,787 | 892 | 2,412 | 814 | 20,194 |
| New England | 2,300 | 3,057 | 183 | 456 | 901 | 6,897 |
| Newcastle | 859 | 1,912 | 110 | 271 | 27 | 3,178 |
| Macquarie | 1,445 | 3,319 | 90 | .. | 55 | 4,909 |
| Melbourne | 8,279 | 10,097 | 1,560 | 3,187 | 1,120 | 24,244 |
| Monash | 4,852 | 6,342 | 695 | 1,371 | 383 | 13,642 |
| La Trobe | 1,720 | 2,099 | 18 | .. | 19 | 3,855 |
| Queensland | 6,327 | 7,271 | 2,380 | 2,530 | 488 | 18,996 |
| Adelaide | 4,144 | 4,638 | 501 | 1,227 | 544 | 11,055 |
| Flinders | 1,092 | 1,366 | 17 | 63 | 83 | 2,620 |
| Western Australia | 4,008 | 4,317 | 638 | 1,155 | 634 | 10,751 |
| Tasmania | 1,262 | 1,549 | 148 | 426 | 147 | 3,532 |
| Total | 70,092 | 65,406 | 11,838 | 16,653 | 7,053 | 171,042 |

(a) Includes funds expended by various government departments and other bodies in respect of universities but not controlled by the universities. (b) In the case of endowments, only income from property and other investment of these endowments is included. The treatment of donations depends on the terms of the gift, etc. When the capital sum is specified to be expended over several years, only the portion of the capital sum allocated to each year is shown as income in that year, but if the capital sum is available for spending without limitation as to time, the full amount is recorded as income in the year it is received, irrespective of whether it is spent in that year or not. The capital value of land and buildings donated to the universities is not recorded as income, unless these properties are sold, in which case the amounts realised are included. (c) Excludes fees collected on behalf of student unions. (d) Income received specifically for new buildings, major alterations and additions to buildings, installation of services, purchase of land and buildings and major equipment.

 UNIVERSITIES: EXPENDITURE, 1966
 (\$'000)

| University | Teaching and research | Administration and general overhead | Libraries | Buildings, premises, grounds | Sundry auxiliary expenditure | Total expenditure |
|--------------------------------------|-----------------------|-------------------------------------|--------------|------------------------------|------------------------------|-------------------|
| Australian National Sydney | 11,649 | 1,660 | 649 | 4,172 | 1,250 | 19,380 |
| Sydney | 15,465 | 1,774 | 980 | 7,429 | 646 | 26,294 |
| New South Wales | 12,088 | 1,523 | 728 | 4,189 | 894 | 19,422 |
| New England | 3,317 | 787 | 256 | 1,930 | 1,085 | 7,375 |
| Newcastle | 1,694 | 235 | 189 | 737 | 86 | 2,942 |
| Macquarie | 294 | 272 | 250 | 3,294 | .. | 4,109 |
| Melbourne | 13,193 | 1,464 | 832 | 4,813 | 1,129 | 21,431 |
| Monash | 7,640 | 1,103 | 694 | 2,812 | 502 | 12,752 |
| La Trobe | 265 | 278 | 300 | 2,619 | 4 | 3,466 |
| Queensland | 10,715 | 906 | 656 | 5,415 | 507 | 18,199 |
| Adelaide | 8,139 | 765 | 548 | 1,344 | 660 | 11,456 |
| Flinders | 1,161 | 190 | 189 | 1,035 | 24 | 2,599 |
| Western Australia | 5,528 | 626 | 402 | 2,249 | 765 | 9,571 |
| Tasmania | 2,263 | 333 | 184 | 459 | 227 | 3,466 |
| Total | 93,410 | 11,915 | 6,857 | 42,498 | 7,779 | 162,459 |

UNIVERSITIES: INCOME AND EXPENDITURE, 1962 TO 1966
(\$'000)

| University | 1962 | 1963 | 1964 | 1965 | 1966 |
|------------------------------------|---------------|----------------|----------------|----------------|----------------|
| Australian National— | | | | | |
| Income | 11,181 | 12,991 | 16,609 | 19,627 | 20,048 |
| Expenditure | 12,251 | 13,938 | 16,126 | 18,666 | 19,380 |
| Sydney— | | | | | |
| Income | 16,439 | 19,232 | 21,710 | 22,398 | 27,120 |
| Expenditure | 16,342 | 17,302 | 20,547 | 20,624 | 26,294 |
| New South Wales | | | | | |
| Income | 15,623 | 16,295 | 19,105 | 18,621 | 20,194 |
| Expenditure | 15,801 | 15,247 | 17,278 | 20,365 | 19,422 |
| New England— | | | | | |
| Income | 4,167 | 5,533 | 6,358 | 6,945 | 6,897 |
| Expenditure | 4,675 | 4,887 | 6,154 | 6,561 | 7,375 |
| Newcastle— | | | | | |
| Income | .. | .. | .. | 3,725 | 3,178 |
| Expenditure | .. | .. | .. | 3,458 | 2,942 |
| Macquarie— | | | | | |
| Income | .. | .. | .. | 3,765 | 4,909 |
| Expenditure | .. | .. | .. | 3,832 | 4,109 |
| Melbourne— | | | | | |
| Income | 14,613 | 15,389 | 16,911 | 18,918 | 24,244 |
| Expenditure | 15,270 | 15,131 | 16,908 | 18,975 | 21,431 |
| Monash— | | | | | |
| Income | 8,509 | 8,294 | 11,335 | 13,612 | 13,642 |
| Expenditure | 9,055 | 8,254 | 10,701 | 12,693 | 12,752 |
| La Trobe— | | | | | |
| Income | .. | .. | .. | 857 | 3,855 |
| Expenditure | .. | .. | .. | 536 | 3,466 |
| Queensland— | | | | | |
| Income | 9,889 | 10,441 | 12,812 | 16,822 | 18,996 |
| Expenditure | 8,727 | 9,985 | 12,727 | 16,980 | 18,199 |
| Adelaide— | | | | | |
| Income | 7,837 | 9,152 | 11,226 | 9,887 | 11,055 |
| Expenditure | 7,478 | 10,020 | 10,749 | 9,843 | 11,456 |
| Flinders— | | | | | |
| Income | .. | .. | (a) | 4,141 | 2,620 |
| Expenditure | .. | .. | (a) | 4,384 | 2,599 |
| Western Australia— | | | | | |
| Income | 6,045 | 7,414 | 7,352 | 9,511 | 10,751 |
| Expenditure | 5,707 | 7,566 | 7,672 | 9,257 | 9,571 |
| Tasmania— | | | | | |
| Income | 3,304 | 2,763 | 3,235 | 3,369 | 3,532 |
| Expenditure | 3,264 | 2,829 | 2,995 | 3,526 | 3,466 |
| Total income | 97,606 | 107,503 | 126,652 | 152,198 | 171,042 |
| Total expenditure | 98,570 | 105,160 | 121,857 | 149,701 | 162,459 |

(a) Included with the University of Adelaide.

Other advanced level institutions

In addition to the degree-granting universities, various other institutions offer courses which may lead to a certificate, diploma, or similar qualification. Included among these institutions are technical colleges, which have been described on pages 521-3, and teachers colleges referred to on pages 524-6.

Colleges of advanced education

The Committee on the Future of Tertiary Education in Australia recommended that interim capital grants be made by both the States and the Commonwealth to twelve specified institutions in five States during 1965-66 preliminary to an arrangement for the expansion and development of tertiary education outside the universities.

This recommendation was accepted by all governments, and the colleges of advanced education are receiving substantial governmental financial support during the 1967-69 triennium. Commonwealth grants are conditional on the States providing \$1 for every \$1 of Commonwealth money for capital purposes and \$1.85 of State money and student fees combined for every \$1 of Commonwealth money for recurrent purposes. The Commonwealth has also established the Commonwealth Advisory Committee on Advanced Education to advise it on the development of the colleges. It is envisaged that the colleges will provide mainly tertiary education and training with a vocational emphasis, as distinct from the academic education provided by the universities. In some States, colleges of advanced education are being developed from existing technological institutions. In the Australian Capital Territory and Tasmania, separate colleges of advanced education are being established. The following table shows maximum Commonwealth grants for the triennium 1967 to 1969 and also maximum grants for capital purposes during the triennium 1964 to 1966.

COLLEGES OF ADVANCED EDUCATION: MAXIMUM COMMONWEALTH GRANTS, 1964 TO 1969
(\$'000)

| State | 1964-66 | 1967-69 | | |
|-------------------------|--------------------------------------|--------------------------------------|--|-----------------------------------|
| | Grants for capital purposes | Grants for capital purposes | Grants for recurrent purposes | Grants for libraries (a) |
| New South Wales . . . | 1,000 | 7,834 | 2,069 | 160 |
| Victoria | 1,600 | 6,312 | 8,981 | 180 |
| Queensland | 950 | 3,090 | 1,826 | 60 |
| South Australia | 250 | 2,721 | 1,809 | 50 |
| Western Australia . . . | 1,000 | 2,743 | 2,577 | 40 |
| Tasmania | .. | 1,300 | 554 | 10 |
| Total | 4,800 | 24,000 | 17,816 | 500 |

(a) A special unmatched grant for the improvement of library facilities in colleges.

The following colleges are to be supported with Commonwealth funds during the 1967-69 triennium. *New South Wales*—Hawkesbury Agricultural College, New South Wales College of Nursing, New South Wales College of Occupational Therapy, New South Wales State Conservatorium of Music, New South Wales Institute of Technology, New South Wales Institute of Business Studies, National Art School, School of Physiotherapy at the Royal Prince Alfred Hospital, Speech Therapy Training School at the Royal Alexandra Hospital for Children, Sydney Technical College, and Wagga Agricultural College; *Victoria*—Ballarat School of Mines and Industries, Bendigo Technical College, Burnley Horticultural College, Caulfield Technical College, College of Nursing, Dookie Agricultural College, Emily McPherson College of Domestic Economy, Footscray Technical College, Gordon Institute of Technology, Longerenong Agricultural College, Occupational Therapy School of Victoria, Physiotherapy School of Victoria, Preston Technical College, Royal Melbourne Institute of Technology, School of Forestry, Swinbourne Technical College, Victorian School of Speech Therapy, Victoria Institute of Colleges, Victorian College of Pharmacy, and Yallourn Technical College; *Queensland*—Queensland Agricultural College, Queensland Conservatorium of Music, Queensland Institute of Technology (Brisbane, Capricornia, and Darling Downs); *South Australia*—South Australian Institute of Technology, and South Australian School of Art; *Western Australia*—Royal Perth Hospital School of Occupational Therapy, School of Mines, School of Physiotherapy, and Western Australian Institute of Technology; and *Tasmania*—Burnie Technical College, Hobart Technical College, Launceston Technical College, and Tasmanian College of Advanced Education.

Agricultural colleges

There are seven State agricultural colleges—Hawkesbury and Wagga (New South Wales), Longerenong and Dookie (Victoria), Lawes (Queensland), Roseworthy (South Australia), and Muresk (Western Australia), offering a comprehensive course of two or three years leading to the award of a Diploma in Agriculture or in a specialised field such as animal husbandry, dairy manufactures or horticulture. The School of Horticulture, Burnley, Victoria, offers a three-year diploma course. Diploma courses are also offered by two independent institutions, the C. B. Alexander Presbyterian Agricultural College in New South Wales and the Marcus Oldham Farm Agricultural College in Victoria.

Most agricultural colleges are government institutions. The government institutions are administered by the State Departments of Agriculture in New South Wales, Victoria, South Australia, and Western Australia, and by the State Department of Education in Queensland. Their purpose is to teach the principles and practices of agriculture and its specialised branches to those intending to take up farming as a career and to those who propose to enter such occupations as agricultural field officer or technical officer in food processing industries.

The minimum entrance standard is usually the penultimate major secondary examination of the State concerned, except in Western Australia where it is the sub-leaving examination. As entry is competitive, there is a tendency for students to hold better than the minimum qualifications. All the colleges are fully residential and the minimum age at which students may enter them varies from fifteen to seventeen years, depending on the college and the type of course.

In addition to their formal courses of training, agricultural colleges offer short courses of from three days to one month to farmers and teachers in country districts.

State expenditure on agricultural education from Consolidated Revenue and certain special funds is shown in the following table. The figures exclude expenditure on pay-roll tax and superannuation and expenditure out of Commonwealth grants to the States for this purpose.

EXPENDITURE ON AGRICULTURAL EDUCATION: STATES, 1962-63 TO 1966-67
(\$'000)

| State | 1962-63 | 1963-64 | 1964-65 | 1965-66 | 1966-67 |
|-----------------------------|--------------|--------------|--------------|--------------|--------------|
| New South Wales | 828 | 954 | 974 | 1,025 | 1,504 |
| Victoria | 654 | 590 | 664 | 697 | 822 |
| Queensland | 626 | 618 | 641 | 655 | 799 |
| South Australia | 234 | 236 | 232 | 232 | 261 |
| Western Australia | 152 | 176 | 208 | 213 | 258 |
| Tasmania | 2 | 2 | 3 | 3 | 2 |
| Total | 2,496 | 2,576 | 2,722 | 2,825 | 3,646 |

Schools of forestry

Since 1965, tertiary training in forestry, previously carried out by the Australian Forestry School, Canberra, has been provided by a Department of Forestry in the Faculty of Science within the Australian National University's School of General Studies. A four-year degree course is offered. At the Creswick School of Forestry in Victoria a diploma course can be taken.

Conservatoria of music

There are conservatoria of music in five States. Those in Victoria and South Australia are attached to the Universities of Melbourne and Adelaide respectively. The New South Wales State Conservatorium, the Queensland State Conservatorium and the Tasmanian Conservatorium are controlled by the respective Departments of Education. All five conservatoria offer diploma courses for entry to which matriculation status is not required; at the universities of Sydney, Melbourne, Adelaide, and Western Australia degree courses are also available.

The Canberra School of Music, established in July 1965, is administered by the Department of Education and Science. A three-year full-time diploma course, consisting of both practical and theoretical studies, is available.

Educational training in the defence services

Each of the three defence services maintains institutions for the training of officers. The Royal Military College, Duntroon, Australian Capital Territory, became a college of the University of New South Wales in 1968. The Royal Australian Air Force Academy, Point Cook, Victoria, has evolved from the Royal Australian Air Force College, which was established in 1948 as a tertiary training centre to provide a professional education for permanent officers of the Air Force. It is affiliated with the University of Melbourne and has adopted that University's Bachelor of Science course. The Academy is also permitted to present students for higher degrees in science and the degree of Doctor of Philosophy. Students may also proceed to the University of Sydney to take a degree in

aeronautical engineering. In 1967 the total enrolments in the several officer training Service establishments, which provide academic as well as service training, were as follows: Royal Australian Naval College, Jervis Bay, New South Wales, 115; Royal Military College, Duntroon, Australian Capital Territory, 238; Royal Australian Air Force Academy, Point Cook, Victoria, 67; Royal Australian Air Force Diploma Cadet Squadron, 105. Educational training is also provided in the apprentice training schools conducted by each of the defence Services. The total enrolments in 1967 were: Royal Australian Navy, 763; Royal Australian Army, 472; Royal Australian Air Force, 475. In addition, there were 624 junior recruits in training at H.M.A.S. *Leeuwin*, Western Australia. The Royal Australian Air Force School of Languages, Point Cook, Victoria, conducts courses in French and Asian languages. In 1967 there were 70 students enrolled, of whom 9 were Royal Australian Air Force personnel.

The Australian School of Pacific Administration

The Australian School of Pacific Administration, controlled by the Department of Territories, trains students in the various aspects of service and administration in Commonwealth Territories, including teaching.

Australian Administrative Staff College

Opened in 1957, the Australian Administrative Staff College is a private organisation working in close co-operation with government and other public bodies, the armed services and the trade union movement. It was founded, and is owned, by a large group of leading Australian companies and has its permanent premises at Mount Eliza, near Melbourne. The College conducts residential courses for administrators to further the study of the problems which arise in managerial work.

Commonwealth activities in education

Fields of activity

Although education is primarily the responsibility of the States, the Commonwealth, has instituted a number of measures of direct assistance to educational institutions and to students. It is responsible for public education in its own Territories and is engaged in educational activities incidental to its responsibilities in such areas as defence, external relations, immigration and social services. Education in Commonwealth Territories is described in the chapter *The Territories of Australia*; various schools and colleges for the defence Services are referred to in the chapter *Defence* and on pages 547–8 and other activities which may be considered broadly as educational are referred to in the section on *Broadcasting and Television* in the chapter *Transport, Communication and Travel*.

Department of Education and Science

A new Commonwealth Department known as the Department of Education and Science was created in December 1966. The new Department, which has absorbed the former Education Division of the Prime Minister's Department including the Commonwealth Office of Education, is concerned with direct grants for educational purposes, e.g. for universities, colleges of advanced education, technical schools, and science buildings, as well as with the new grants for building teachers colleges. It is responsible for assistance to students for the scheme of Queen Elizabeth II Fellowship and for special scholarships offered by overseas countries for Australians. Among the Department's responsibilities are matters in the field of international relations in education, including Unesco and Commonwealth Co-operation in Education, and liaison with State and other education bodies throughout Australia. The Department provides professional advice on education to other Commonwealth departments and authorities. It administers grants to such bodies as the Academy of Science, the Humanities Research Council, the Social Sciences Research Council, and the Institute of Aboriginal Studies, and is responsible for grants for scientific research such as those recommended by the Australian Research Grants Committee. It administers educational services in the Australian Capital Territory.

The *Australian Universities Commission* and the *Commonwealth Advisory Committee on Advanced Education* are responsible to the Minister for Education and Science. The Minister is also responsible for the *Commonwealth Scientific and Industrial Research Organization*, the *National Standards Commission*, the *Australian National University*, the *Institute of Aboriginal Studies*, and the *College of Advanced Education* to be established in Canberra. The Prime Minister's Department continues to be responsible for the National Library and for art, literature and other cultural activities in which the Commonwealth is interested.

Commonwealth Scholarships Board

This Board, under its former title of the Universities Commission, was established by the *Education Act 1945*. Prior to 1945 the Commission had functioned under wartime National Security Regulations. The Board consists of a chairman and three other members. The main responsibilities of the Board at present are advising the Government on the policy and administration of Commonwealth university and advanced education scholarships and Commonwealth post-graduate awards. The Board is responsible for arranging and supervising the training of ex-service personnel and war widows at university and university type institutions under the Korea and Malaya Training Scheme and the Disabled Members' and Widows' Training Scheme.

Advisory bodies

The Commonwealth Government has established various advisory bodies whose fields of concern relate to matters of education. Already mentioned (pages 538-40) is the Australian Universities Commission, which advises the Commonwealth Government on university development. The Commonwealth Advisory Committee on Advanced Education advises the Minister on the balanced development of tertiary education outside universities. Within financial limits nominated by the Minister, the Committee recommends grants to the States for colleges of advanced education and directs grants to any such colleges established by the Commonwealth. The Australian Research Grants Committee advises the Minister on the merit of applications for research grants from individuals and research teams, and suggests the allocation of funds. The Queen Elizabeth II Fellowships Committee advises the Minister on the merit of applicants for these Fellowships, which are awarded for post-doctoral study in the physical and biological sciences, and advises generally on the administration of this scheme of Fellowships.

The Commonwealth Government appointed in 1965 a committee of inquiry into the need for a college of advanced education in the Australian Capital Territory. The committee's report was presented to Parliament in October 1966 and the Government accepted its recommendation that a college, to be known as the Canberra College of Advanced Education, should be established. The construction of the college was commenced in December 1967.

The report of the Advisory Committee on Educational Television appointed in 1964 by the Australian Broadcasting Commission was tabled in Parliament in May 1966.

Assistance to students

The Commonwealth Government provides financial assistance to students through five major scholarship schemes. A total of 22,000 new awards are made available annually under these schemes.

The Commonwealth University Scholarship Scheme makes provision for 8,000 scholarships annually. Of these, 6,000 are open entrance scholarships which are allocated amongst the States in proportion to population and are awarded on the basis of results achieved in Australian matriculation examinations. A small quota of open entrance awards is set aside as Mature Age Scholarships for students who have reached the age of twenty-five years. The remaining 2,000 scholarships are Later Year Awards for students who have already completed one or more years of a university course. Scholarship holders have their fees paid and may receive a living allowance subject to a means test. As from 1 January 1968 the maximum rates of living allowance were \$904.80 per annum in the case of scholars living away from their parents and \$559 for scholars living with parents.

The Commonwealth Advanced Education Scholarship Scheme provides 1,000 scholarships each year for students taking approved courses of advanced education at institutions other than universities. Conditions for selection and benefits are similar to those for university scholarships.

Under the Commonwealth Post-graduate Awards Scheme 500 new awards are made available annually for students taking courses leading to higher degrees at Australian universities. The awards are for full-time study and may be renewed annually up to a maximum period of four years. The Commonwealth contributes an amount of \$2,300 per annum towards the cost of each award. Rates of stipend are fixed by each university and may vary from one university to another. Allowances are not subject to any means test.

Under the Commonwealth Secondary Scholarship Scheme students compete each year for 10,000 scholarships to assist them during the final two years at secondary school. Secondary scholarship benefits are free of means test and comprise a yearly living allowance of \$200, a textbook and equipment allowance of \$50 per annum and reimbursement of compulsory fees up to a maximum of \$150 per annum.

In 1964 the Commonwealth Government also introduced the Commonwealth Technical Scholarship Scheme under which it makes available 2,500 new awards annually to assist students to take approved technical courses. Most of these courses are at certificate level in technical colleges (*see*

page 522). Full-time Technical Scholarship holders receive the same benefits as Commonwealth Secondary scholars. The benefits paid each year to part-time technical scholars are an allowance of \$100, free of means test, and reimbursement of compulsory fees up to a maximum of \$100.

International relations

The Commonwealth has been involved in the considerable extension which has taken place in relations and exchanges with other countries in the field of education. A significant encouragement to this growth has been membership of Unesco, to which Australia has belonged since 1946, when the organisation was founded.

Twelve specialist Unesco committees in Australia are responsible for a wide programme of activities. The Committees' projects include the organisation of Australian and regional seminars, information programmes, and the preparation and circulation of travelling exhibitions which deal with subjects forming part of Unesco's programme. The Australian National Advisory Committee for Unesco co-ordinates the work of the specialist committees and advises the Commonwealth Government on Australian participation in Unesco.

With the co-operation of educational institutions, State Education Departments and other bodies, the Commonwealth has accepted increasing commitments in schemes of international assistance and co-operation. The Colombo Plan Technical Co-operation Scheme, the United Nations Expanded Programme of Technical Assistance, the Australian International Awards Scheme, the Australian South Pacific Technical Assistance Programme, and the Special Commonwealth African Assistance Plan are some of the programmes through which the Commonwealth Government is providing training for overseas students in Australia and is sending Australian experts and equipment to many of the newly developing countries, especially in Asia and Africa. Australia is also actively sharing with other Commonwealth countries in the scheme of Commonwealth Co-operation in Education, which includes the Commonwealth Scholarship and Fellowship Plan. There were some 1,850 sponsored foreign students in Australian educational institutions at 30 June 1967, compared with about 800 in 1956. Over three-quarters of these were Colombo Plan trainees, most of whom were studying in various fields of engineering, science, medicine, education, and economics.

In 1964, by agreement between the United States and Australian Governments, the Australian-American Educational Foundation, financed jointly by the two Governments, was established to operate a scheme of educational exchanges between the United States and Australia. This new scheme has similar aims and purposes to the Fulbright Scheme which it replaces and which had operated wholly on American funds.

Support is given to Australian participation in many international governmental and non-governmental organisations. For example, Australian educationists have attended yearly meetings of the International Bureau of Education, and regular contributions are made to the Bureau's international surveys into various aspects of education. Assistance has been given to bodies such as the Australian Teachers' Federation in sending delegates to meetings of the World Confederation of Organisations of the Teaching Profession.

Grants for science laboratories in schools

During the period 1 July 1964 to 30 June 1968 a total of \$39,623,200 was provided by the Commonwealth Government for the building and equipping of science laboratories in both government and non-government schools. Non-government schools in the Australian Capital Territory and the Northern Territory no longer receive this assistance. In these areas the Commonwealth Government now meets interest charges on loans raised for approved building projects and also repays the amounts of capital borrowed in equal annual instalments over periods of twenty years.

Grants for technical education

The present series of Commonwealth technical training grants will provide \$40,000,000 to the States over the four years 1964-65 to 1967-68. The technical training grants are designed to assist trade and technician training, outside the normal secondary school system and below the tertiary level, conducted in State institutions. Agricultural colleges have been assisted as well as technical colleges. The grants, which do not have to be matched by the States, were made available at a rate of \$10 million a year. They are apportioned between the States on a population basis. In October 1967 an announcement was made that the technical training grants would be continued for a further three years, i.e. to 1970-71, making in all a Commonwealth provision of \$70 million for this sector of education. The new grants will be made under the same general arrangements as for present grants, i.e. at a rate of \$10 million a year and with no matching expenditure required by the States.

The following table shows the provision of the Commonwealth grants for technical education for each State.

**COMMONWEALTH GRANTS FOR TECHNICAL EDUCATION
(\$)**

| <i>State</i> | <i>Commonwealth funds available under existing legislation (1964-65 to 1967-68)</i> | <i>Commonwealth funds available over the next three years (1968-69 to 1970-71)</i> |
|-----------------------------|---|--|
| New South Wales | 14,976,000 | 11,127,000 |
| Victoria | 11,303,200 | 8,462,400 |
| Queensland | 5,793,600 | 4,368,600 |
| South Australia | 3,732,800 | 2,868,300 |
| Western Australia | 2,857,600 | 2,197,500 |
| Tasmania | 1,336,800 | 976,200 |
| Total | 40,000,000 | 30,000,000 |

Grants for other educational purposes

The Commonwealth gives assistance to various educational schemes and institutions. Grants are made each year by the Commonwealth to the Australian Pre-school Association for the development of kindergarten education, to the Commonwealth National Fitness Council, to the Australian Council for Educational Research, to the Department of Adult Education at the University of Sydney for the publication of the *Current Affairs Bulletin*, and to assist in the provision of training in occupational therapy, physiotherapy and nursing.

Migrant education

The Commonwealth Government's post-war immigration policy has brought to Australia a large number of immigrants with little or no knowledge of English. To assist the assimilation of these newcomers into the Australian community, a system of migrant education has been developed to teach them English and to give them information about Australia. This service is provided free of charge to immigrants above school leaving age.

Before arriving in Australia settlers who do not speak English are given some instruction in English by shipboard education officers. Some may have attended classes in Europe organised by the Inter-governmental Committee for European Migration, with which the Australian Government co-operates. In Australia, evening classes are arranged by State Education Departments wherever nine or more migrants in country areas, or twelve or more migrants in city areas, wish to learn English. There is also available through State Education Departments a free correspondence course in English. In addition, English lessons are broadcast regularly by the Australian Broadcasting Commission. The Commonwealth Office of Education provides technical advice on all aspects of migrant education and is responsible for the preparation of teaching materials, while responsibility for the overall supervision of the programme rests with the Department of Immigration, which also meets the costs.

In November 1967, 12,840 migrants were enrolled in classes, and 6,761 were enrolled in radio and correspondence courses. From the inception of the programme in 1948 until June 1968, 647,862 migrants have been enrolled for English tuition.

Technical training by government departments

Although most needs of departments for trained staff are met by apprenticeship schemes and other technical college courses and by the universities, some departments provide training which is not available elsewhere. The most important field for which such training is provided is the training of telephone, telegraph, radio, and television technicians by the Postmaster-General's Department.

Commonwealth expenditure on education

An analysis of Commonwealth expenditure is provided in the following table. Under the heading of 'Direct expenditure on goods and services' current expenditure includes the cost of the Department of Education and Science, the Australian Universities Commission and other administrative expenditure, expenditure by the Australian National University, and the provision of educational

services in the Australian Capital Territory and the Northern Territory (including re-imbursments to States for educational services in these Territories, such amounts being excluded from State expenditure). This expenditure is net of receipts in the form of fees, etc. 'Capital' expenditure, i.e., Commonwealth gross fixed capital expenditure, relates mainly to expenditure on new buildings and equipment by the Australian National University and for schools, etc. in the Northern Territory and the Australian Capital Territory.

COMMONWEALTH GOVERNMENT EXPENDITURE ON EDUCATION, 1962-63 TO 1966-67
(\$'000)

| | 1962-63 | 1963-64 | 1964-65 | 1965-66 | 1966-67 |
|--|---------------|---------------|----------------|----------------|----------------|
| Direct expenditure on goods and services— | | | | | |
| Department of Education and Science— | | | | | |
| Current | 1,234 | 1,417 | 1,656 | 1,878 | 2,532 |
| Capital | .. | .. | .. | .. | 9 |
| Australian Universities Commission— | | | | | |
| Current | 88 | 122 | 159 | 155 | 195 |
| Australian Capital Territory— | | | | | |
| Current | 2,659 | 3,060 | 4,044 | 4,451 | 5,254 |
| Capital | 1,645 | 2,271 | 2,772 | 3,506 | 4,663 |
| Northern Territory— | | | | | |
| Current | 833 | 960 | 1,209 | 1,472 | 1,641 |
| Capital | 812 | 845 | 1,356 | 1,504 | 1,242 |
| Other— | | | | | |
| Current | 434 | 503 | 587 | 617 | 694 |
| Capital | 37 | 29 | 20 | 18 | 76 |
| Total— | | | | | |
| Current | 5,248 | 6,062 | 7,655 | 8,573 | 10,316 |
| Capital | 2,494 | 3,145 | 4,148 | 5,028 | 5,990 |
| <i>Total, direct expenditure, goods and services</i> | <i>7,743</i> | <i>9,205</i> | <i>11,803</i> | <i>13,600</i> | <i>16,306</i> |
| Grants to Australian National University— | | | | | |
| Current | 7,019 | 8,639 | 11,400 | 12,658 | 14,223 |
| Capital | 2,896 | 4,678 | 5,392 | 5,062 | 5,316 |
| <i>Total, grants to A.N.U.</i> | <i>9,915</i> | <i>13,317</i> | <i>16,792</i> | <i>17,720</i> | <i>19,539</i> |
| Grants to Canberra College of Advanced Education— | | | | | |
| Capital | .. | .. | .. | .. | 25 |
| <i>Total, grants to Canberra College of Advanced Education</i> | <i>..</i> | <i>..</i> | <i>..</i> | <i>..</i> | <i>25</i> |
| Payments to the States(a)— | | | | | |
| Current | 18,546 | 21,080 | 28,529 | 32,929 | 38,772 |
| Capital | 12,872 | 12,780 | 32,652 | 32,074 | 40,091 |
| <i>Total, payments to States</i> | <i>31,418</i> | <i>33,859</i> | <i>61,180</i> | <i>65,003</i> | <i>78,864</i> |
| Cash benefits to persons— | | | | | |
| Commonwealth scholarship schemes— | | | | | |
| Post-graduate | 602 | 834 | 1,236 | 1,733 | 2,432 |
| University | 6,468 | 6,897 | 7,903 | 10,064 | 13,890 |
| Advanced education | .. | .. | .. | 198 | 660 |
| Secondary | .. | .. | 3,382 | 5,197 | 6,243 |
| Technical | .. | .. | 212 | 600 | 816 |
| Soldiers' children education scheme | 1,967 | 2,302 | 2,311 | 2,534 | 2,462 |
| Other | 387 | 433 | 573 | 812 | 816 |
| <i>Total, cash benefits to persons</i> | <i>9,424</i> | <i>10,464</i> | <i>15,617</i> | <i>21,140</i> | <i>27,319</i> |
| Grants towards private capital expenditure— | | | | | |
| Australian Capital Territory | .. | .. | 86 | 237 | 249 |
| Northern Territory | .. | .. | 28 | 5 | 7 |
| Other | .. | .. | 210 | .. | .. |
| <i>Total, grants towards private capital expenditure</i> | <i>..</i> | <i>..</i> | <i>324</i> | <i>242</i> | <i>256</i> |
| | 58,500 | 66,847 | 105,716 | 117,703 | 142,309 |

(a) Specifically for education.

The foregoing table excludes expenditure on certain items which are related to education, such as payments for the Australian Broadcasting Commission education series, Australian Agricultural Council scholarships and the education of Aborigines. In the Australian National Accounts these items are classified to other appropriate headings. If such expenditure were added to the grand total in the table above the amounts would be: 1962-63, \$59,098,000; 1963-64, \$67,522,000; 1964-65, \$106,461,000; 1965-66, \$118,551,000; 1966-67, \$143,185,000.

Commonwealth figures shown in the table on page 555 differ from those shown here because: education grants to the States by the Commonwealth (mainly for universities, science facilities in State schools, technical schools and colleges of advanced education) are included here, while expenditure by the States from these education grants is included in the State education expenditure figures on page 555; grants by the Commonwealth Government to the Australian National University are shown here, while only the actual net expenditure by that university is included in Commonwealth direct expenditure on page 555.

Adult education

The term 'adult education' as used in Australia refers mainly to non-vocational educational and cultural activities for adults. While the nature of the recognised adult education authorities varies from State to State, their major activities have many common features. Regular courses of lectures are organised on such topics as literature, music, drama, international affairs, languages, and crafts. Some authorities also organise discussion groups, festivals and summer schools, and provide special services for groups in remote areas. In 1960 an Australian Association of Adult Education was formed, and its first annual conference was held in Adelaide in 1961. The Association handles matters pertaining to adult education at a national level and arranges liaison with similar bodies in other countries.

One of the first bodies active in the field of adult education in Australia was the Workers' Educational Association, which formed associations in all States in 1913. Its aims are to bring the universities into closer relationship with the community in general and to provide for higher education in civic and cultural subjects. These associations have been superseded by Adult Education Boards or Councils set up by the State Governments in Victoria, Queensland and Tasmania, and by the University in Western Australia. In the other two States, New South Wales and South Australia, the associations continue to co-operate with the universities in their extension work and are given direct grants by the Governments concerned.

There are throughout Australia various other organisations which are active in the field of adult education. The World Education Fellowship, for example (*see* page 554) has since its inception in Australia been interested in adult education.

The organisation of adult education and some of the activities in each State are described in Year Book No. 53, pages 625 to 627.

Overseas students in Australian educational institutions

The development of closer ties in education between Australia and other countries and the demand for education in many countries in Asia, Africa and the Pacific have brought about a remarkable growth in the number of overseas students who come to Australia to further their education. Part of the growth and much of the awareness of the facilities available may be attributed directly to the schemes mentioned on page 550. Since 1955, when there were about 3,500 overseas students in Australia, the number has increased to more than 13,000 in 1967. More than half attend institutions of higher education such as universities and technical colleges. Between 1955 and 1967 the numbers of overseas students in institutions of higher education had risen from about 1,800 to 7,300, most of whom came from Asian countries. Australian institutions have shown a readiness to accept overseas students, and in many cases special provisions have been made to suit their needs. Nevertheless, population growth and the demand for education, especially for higher education, within Australia have forced many institutions to restrict the admission of overseas students in common with Australian students.

Organisations associated with education

Australian Council for Educational Research

The Australian Council for Educational Research, a non-governmental body, is engaged on educational research in a wide variety of fields, ranging from tertiary to pre-school education. It conducts surveys and inquiries, makes grants to approved educational investigators, serves as a centre for disseminating educational information, provides training for research workers, and standardises and distributes educational and psychological tests for use in Australia. Although this council is an autonomous body, the Commonwealth and State Governments give substantial financial support.

World Education Fellowship

The World Education Fellowship, formerly known as the New Education Fellowship, is a world organisation of parents, educators and other citizens interested in the development of new educational practices. It was founded in London in 1915 and spread to Australia at the time of a regional conference held here in 1937. There are now sections in each State. Its Australia-wide journal *New Horizons in Education* is published twice a year.

Australian College of Education

The Australian College of Education was formed in 1959. Its aim is to bring together leading teachers and administrators in every field of education, to raise the standard of the profession of education in Australia, to establish and proclaim fundamental educational values, and to recognise outstanding contributions to educational practice. Chapters of the College have been set up in all States, and several of the addresses and papers delivered at meetings of the College have been issued in published form.

Parent and citizen organisations

In Australia, where all government schools are administered by central departments, there is limited opportunity for local participation in education. Public interest is expressed through parents committees or organisations of parents and other citizens interested in supporting their local school. The Education Acts of all States provide for the formation of groups of this type, whose aims are to promote an interest in the school by bringing parents and teaching staff together, to help provide supplementary teaching aids and recreation materials, to foster the regular attendance of children at school, and to help find accommodation for teachers. In several States the general maintenance of school buildings, equipment and grounds is a statutory responsibility of the parent groups, costs being covered by government grants. Lunch canteen services at local schools are maintained by groups in some States. Parent groups have established school children's insurance schemes, operated through State Government insurance offices or private insurance companies. These schemes cover accidents to children which occur between the time of leaving home for school and returning home by the usual direct route.

State-wide councils or federations of parents groups are associated in a federal body, the Australian Council of School Organisations.

Expenditure on education

The presentation in the following tables is based on the Australian National Accounts. The figures *exclude* expenditure on goods and services which do not enter the market, such as education provided in the home, or for which it is not practical to impute a value, such as the unpaid services of some teachers, or certain educational services which cannot be separated readily from other services, such as instruction on the job. Most of the education services provided by public authorities are included. Some education services are provided by trading enterprises, such as business colleges, but it is not possible to provide separate figures of their transactions. Nor is it possible to provide separate figures for the expenditure of non-profit organisations, such as non-government schools. Information for these organisations is insufficient to make direct estimates of the cost value of their services. Their contribution is included as part of personal consumption expenditure on education.

Current and capital transactions are shown separately. Current expenditure by public authorities on goods and services classified to education is measured net of receipts, such as fees. These fees are included in private consumption expenditure. Gross fixed capital expenditure represents the value of new capital assets, such as new buildings and additions to buildings, equipment, etc. While it is possible to show to some extent details of education expenditure incurred by the various public authorities, it is not possible to provide consistent figures in total of expenditure on various types of education. Generally, expenditure on libraries, cultural activities, and the like is excluded from 'education', as are most education services provided in the armed forces, at health and welfare institutions, prisons, and the like. Identifiable expenditure on education administration and educational research is, however, included. In many cases strict definitions cannot be applied. Thus it is not possible to differentiate between the components of scholarships which are intended for education fees, textbooks, etc. (clearly education expenditure) and those intended as living allowances. University research cannot be separated from universities' expenditure on teaching. With the exception of expenditure on fees, private expenditure on education (such as for books, equipment provided by parents' associations, and the like) cannot be identified and is therefore excluded.

ESTIMATES OF EXPENDITURE ON EDUCATION: AUSTRALIA
1962-63 TO 1966-67
(\$ million)

| | 1962-63 | 1963-64 | 1964-65 | 1965-66 | 1966-67p |
|--|---------|---------|---------|---------|----------|
| PUBLIC AUTHORITY SECTOR | | | | | |
| Direct expenditure on goods and services classified to education(a)— | | | | | |
| Net current expenditure— | | | | | |
| Commonwealth authorities | 12 | 13 | 18 | 20 | 24 |
| State and local government authorities | 355 | 399 | 458 | 503 | 556 |
| Total net current expenditure | 367 | 412 | 476 | 523 | 580 |
| Gross fixed capital expenditure— | | | | | |
| Commonwealth authorities | 7 | 8 | 8 | 8 | 12 |
| State and local government authorities | 106 | 114 | 127 | 151 | 157 |
| Total gross fixed capital expenditure | 112 | 121 | 135 | 159 | 169 |
| Total direct expenditure— | | | | | |
| Commonwealth authorities | 19 | 21 | 26 | 28 | 36 |
| State and local government authorities | 461 | 513 | 585 | 654 | 713 |
| Total, public authority sector | 479 | 533 | 611 | 682 | 749 |
| PRIVATE SECTOR(a) | | | | | |
| Personal consumption expenditure on education | 83 | 91 | 101 | 111 | 124 |
| Gross private fixed capital expenditure on education | 19 | 25 | 26 | 32 | 38 |
| Total, private sector | 102 | 116 | 127 | 143 | 162 |
| TOTAL EXPENDITURE ON EDUCATION | | | | | |
| Grand total | 581 | 649 | 738 | 825 | 911 |

(a) Transfer payments from the public authority to the private sector are included in personal consumption expenditure and therefore excluded from the public authority sector.

Direct expenditure of public authorities excludes government payments to persons and non-profit organisations. Such transfer payments from the public authority to the private sector consist mainly of scholarships to persons and grants to non-government schools. They include all scholarship payments, whether or not they are intended towards the payment of fees or towards living expenses. Total government expenditure on education, including such transfer payments, is set out in the following table.

ESTIMATES OF PUBLIC AUTHORITY EXPENDITURE ON EDUCATION: AUSTRALIA
1962-63 TO 1966-67
(\$ million)

| | 1962-63 | 1963-64 | 1964-65 | 1965-66 | 1966-67p |
|---|---------|---------|---------|---------|----------|
| Direct expenditure of public authorities | 479 | 533 | 611 | 682 | 749 |
| Transfer payments to the private sector— | | | | | |
| Cash benefits— | | | | | |
| From Commonwealth authorities | 9 | 10 | 16 | 21 | 27 |
| From State and local government authorities | 5 | 7 | 8 | 13 | 14 |
| Grants towards private capital expenditure— | | | | | |
| From Commonwealth authorities | .. | .. | .. | .. | .. |
| From State and local government authorities | .. | .. | 3 | 3 | 3 |
| Total transfer payments | 14 | 17 | 27 | 37 | 44 |
| Total expenditure on education by public authority sector | 493 | 550 | 638 | 719 | 793 |

Because of conceptual and accounting differences the figures above are not strictly comparable with figures of State expenditure on schools, technical education, etc., Commonwealth expenditure on education, and university expenditure shown in other sections of this chapter.

CULTURAL ACTIVITIES

Libraries

The Munn-Pitt report of 1935 greatly stimulated interest in libraries and librarianship throughout Australia. This is seen in the rapid development of libraries, the passing of legislation in all States to increase library services, and the establishment in 1937 of the Australian Institute of Librarians to improve the standard of librarianship. This body was reconstituted in 1949 as the Library Association of Australia and incorporated by Royal Charter in 1963, and its functions now include the promotion and improvement of libraries and library services. The Association conducts annual examinations in all States, for which students are prepared by courses of instruction. Formal library schools are conducted by the National Library of Australia, Canberra, the Library Board of New South Wales (held at Newcastle Public Library), and the State Library of Victoria, Melbourne. In 1960 the first library school to be attached to an Australian University was opened in the University of New South Wales, and the Royal Melbourne Institute of Technology set up a library school in 1963.

Commonwealth libraries

National Library of Australia. This Library grew directly from the Library of the Commonwealth Parliament established in Melbourne in 1901, the Committee of which soon afterwards announced its intention of developing a library patterned on the Library of Congress at Washington, U.S.A., capable of serving purposes beyond those essential to the Parliament itself, appropriate to a national library and on a national scale. This policy was steadily pursued, so that, in addition to its primary function of serving Parliament, it gradually became a central source of information for the Government and its departments and other agencies, and assumed increasing reference and bibliographical responsibilities in relation to scholarship and research in Australia and abroad. It was also influenced by the basic elements of the national library concept of the older countries of Europe: namely, that a national library is the proper place to collect the national literature systematically and to make it known and available for use, and that it is a place to which scholars may turn for what is most significant in the literature of other countries. For these growing extra-Parliamentary activities the Parliamentary Library Committee, in 1923, adopted the title of Commonwealth National Library.

In 1957 a committee appointed to examine the future control and functions of the Commonwealth National Library recommended its establishment as the National Library of Australia separate from the Parliamentary Library, with wide functions and controlled by a board subject to a Minister; the transfer, as a separate agency to an appropriate department, of its Archives Division, which constituted the Commonwealth's agency for the custody and organisation of departmental records of permanent value which need no longer be held within departmental offices; and that the Parliamentary Library be a separate library under separate Parliamentary control. Continuing co-operation, where possible, between the two libraries was also proposed.

Effect was given to these recommendations by the *National Library Act 1960*, which created the National Library of Australia as a body corporate under the control of a Council of nine members, of whom one is a Senator elected by the Senate, one a member of the House of Representatives elected by that House, and seven appointed by the Governor-General. Its functions are: to maintain and develop a national collection of library material, including a comprehensive collection relating to Australia and the Australian people; to make the national collection available to such persons and institutions in such manner and subject to such conditions as the Council determines with a view to its most advantageous use in the national interest; to make available such other services in relation to library matters and material, including bibliographical services, as the Council thinks fit, particularly for the purposes of the library of the Parliament, the departments and authorities of the Commonwealth, and the Territories of the Commonwealth; and to co-operate in library matters (including the advancement of library science) with authorities or persons, whether in Australia or elsewhere.

The National Library comprehensively collects and preserves Australian books, periodicals, newspapers, government publications, pictures, prints, manuscripts, maps, moving picture films, and sound recordings. It is assisted in this by the deposit provisions of the *Copyright Act 1912-1966* and has also been enriched by the acquisition of such notable collections as the Petherick collection of 16,500 items in 1911, the Cook manuscripts in 1923, the Cumpston collection on Public Health in Australia in 1936, the Mathews Ornithological collection in 1940, the Nan Kivell collection of 16,000 items of Australian and Pacific interest including original paintings, prints, manuscripts, and printed material in 1959, and the Ferguson collection which is still under transfer. A feature of the Library's Australian work is the copying on microfilm, in association with the Public Library of New South Wales, of all important unique material overseas relating to Australia, including over three million pages in the Public Record Office in London. Compilation of a Guide to

Collections of Manuscripts Relating to Australia began in 1964. The Library maintains a permanent exhibition of selected paintings, prints and other historical material from its collections. This exhibition is displayed in Parliament House, Canberra.

The Library publicises Australian publications, both at home and abroad, through select lists, the *Australian Books* (annual), the *Australian Public Affairs Information Service*, which is a subject index to current literature (monthly with an annual cumulation), and by collections of Australian books maintained by it at all posts at which Australia is officially represented abroad. In London and New York the National Library maintains and staffs Australian reference libraries supervised by its own Liaison Officers in those centres. In the discharge of its wider bibliographic responsibilities, the Library publishes the *Australian National Bibliography* (weekly with monthly and annual cumulations), which lists books, pamphlets, sheet music, government publications and the first issue of each new periodical or newspaper. Commonwealth and State official documents, both monographic and serial, are listed in *Australian Government Publications* (annual). The Library is also building up union catalogues of serials in the social sciences and humanities, and of monographs in Australian libraries. A three volume loose-leaf edition of *Serials in Australian Libraries: Social Sciences and Humanities*; a *Union List* was completed in 1967 and will be continuously revised. A second, single volume edition of *Newspapers in Australian Libraries: a Union List* was also issued in 1967.

In 1956 the Australian Bibliographical Centre was established within the National Library to serve as the secretariat of the Australian Advisory Council on Bibliographical Services. The Council, made up of representatives of the National Library, State Libraries and library boards, Parliamentary libraries, public libraries, college libraries, school libraries, special libraries, the Commonwealth Scientific and Industrial Research Organization, each of the universities, the Library Association of Australia and archivists, plans the further development and co-ordination of bibliographical services and co-operates with Unesco and its committees. In recent years the Council has also concerned itself with the adequacy of the book resources within Australia as a whole. The Centre organises bibliographical projects recommended by the Council and operates as a centre for bibliographical information in Australia and overseas. It has published *Resources of Australian Libraries*, a summary report of a survey conducted for the Council in 1961 by Maurice F. Tauber (1963), and *The Development of National Book Resources* (1965), which examines the problems in dealing with the deficiencies revealed by the Tauber Survey. The first edition of *Current Projects in Library Automation: an Australian Directory* appeared in 1967.

The Library acts as a central library of documentary and educational films, its film collection containing approximately 8,000 titles, together with Australian historical films and a great number of film strips. It published *Australian films: a Catalogue of Scientific, Educational and Cultural Films, 1940-58* in 1959 and annual supplements in succeeding years. A revised edition of the *Catalogue of 16-mm. Films*, which lists all films available for loan, was published in 1960. It was supplemented in 1964 and annual accession lists are issued. Special efforts are made to discover and preserve samples of early Australian film production.

Through its Extension Services Section the Library conducts the Canberra Public Library Service for residents of the Australian Capital Territory, to whom 873,492 books were lent during 1966-67. It also assists in the provision of similar services in the Northern Territory, the Territory of Papua and New Guinea, and Norfolk Island.

The National Library's collections contain approximately 1,000,000 volumes, 26,500 paintings, pictures and prints, 23,500 reels of microfilm, 1,860 running feet of manuscripts, 25,000 motion picture stills, 16,000 reels of moving picture films, 160,000 maps, and 450,000 aerial photographs. Special features of the book collection are its strong holdings of Australiana, materials relating to the Pacific area and east and south-east Asia, the publications of foreign governments and international organisations, and works in the social sciences, particularly in political theory and economics.

Patent Office Library. The Library of the Commonwealth Patent Office, Canberra, contains approximately 11,250 books and a wide variety of periodicals and other literature relating to pure and applied science, industrial technology and the industrial property (patent, trade mark, design and copyright) laws and practice of most countries. Patent specifications of inventions are received from the principal countries of the world; present holdings are more than 9,989,500. Indexes include a microfilm of a classified index to 3,000,000 U.S.A. patents and translations of abstracts of U.S.S.R. patents.

Commonwealth Scientific and Industrial Research Organization. The library holdings of the Organization cover the pure and applied sciences. In addition to the Central Library in East Melbourne, each of the Divisions and Sections has a specialised collection covering such subjects as food preservation, forest products, chemistry, physics, animal health, and fisheries. The collections are particularly strong in the publications of overseas scientific and technical research institutions, with many of which extensive exchange arrangements have been made.

The Central Library maintains a union catalogue of the holdings of all C.S.I.R.O. libraries and is responsible for the following publications: *Scientific Serials in Australian Libraries*; *Australian Science Index*, an index of articles published in Australian scientific and technical periodicals; a *Directory of Scientific and Technical Research Centres in Australia*; and *C.S.I.R.O. Abstracts*, which include abstracts of papers published by C.S.I.R.O. officers, C.S.I.R.O. translations, translations available from other Australian organisations, and additions to the British Commonwealth Index of Scientific Translations. The larger libraries in the Organisation have photocopying facilities which, while normally for internal use, provide a service for the public when a publication is not held elsewhere in Australia.

The Australian War Memorial Library. In the War Memorial library are housed the documentary and pictorial records of Australia's fighting services in the 1914-18 and 1939-45 Wars, together with collections covering the war in Korea, 1950-53, and earlier wars in which Australian troops participated—Sudan, 1885; South Africa, 1899-1902; and the Boxer Rebellion in China, 1900-01. Books, periodicals and other records covering contemporary trends and events in the fields of military history and military science are constantly being added, including a coverage of operations in South Vietnam.

The printed records section contains approximately 70,000 volumes, a large collection of military maps, newscuttings and newspapers, sound recordings of war leaders, personalities and events, war posters, and postage stamps. Many personal collections by distinguished soldiers and historical documents relating to the wars have also been placed in the Memorial's custody for preservation. Written records comprise correspondence files of headquarters and units of both World Wars, and the original war diaries compiled from day to day by each unit during its service. The collection of official war photographs covering the 1914-18, 1939-45 and Korean Wars numbers over 250,000, and a collection of official motion picture film depicts Australia at war. Facilities for public research are not yet fully developed, but requests for information are met where practicable.

Other Commonwealth Government libraries. Most Commonwealth authorities have specialised collections in their own fields and in addition draw largely on the National Library.

Northern Territory Library Service. The Northern Territory Library Service maintains five centres in the Territory. At 30 June 1967 stocks totalled 55,792 volumes which were held at the following centres: Darwin, 25,234; Nightcliff, 5,015; Alice Springs, 16,431; Tennant Creek, 4,892; Katherine, 4,220.

State libraries

State Public Libraries. In each of the capital cities there is a well-equipped public library, the libraries in Melbourne and Sydney especially comparing very favourably with similar institutions elsewhere in the world. The following paragraphs describe these libraries and other library services in each State.

New South Wales. The Free Library Movement in New South Wales, founded for the establishment of a system of public libraries on the basis suggested in the Munn-Pitt Report of 1935, helped to pave the way for the Library Act, 1939-1959, which was fully proclaimed as from 1 January 1944. At 30 June 1967, 178 councils had established libraries in terms of the Library Act. During 1967 they spent on their libraries \$4,559,411 including \$1,079,722 received in subsidy. There are 239 libraries, of which 72 are in the metropolitan area and 167 in the country. There are also 23 bookmobiles, of which 2 are in Sydney, 7 in the suburbs of Sydney, and 14 in country municipalities and shires. These libraries contain 3,490,349 volumes.

New South Wales departmental libraries are staffed by officers attached for duty from the State Library, which also provides a central cataloguing service for municipal and shire libraries constituted under the 1939-1959 Act. The State Library maintains an adult education section servicing adult education activities for the universities of Sydney and New England and the Workers' Educational Association.

The Circulation Department lends books to municipal and shire libraries and to individual borrowers. The total stock of the Department is 65,098 volumes, and 44,663 books were lent to public libraries and individual borrowers during 1966-67.

The State Library, known as the Public Library of New South Wales, includes a general reference department of 537,574 volumes, together with the Shakespeare Tercentenary Memorial Library, and the Mitchell and Dixon Libraries and Galleries which are mainly devoted to Australian and Pacific material. The Mitchell Library, with more than 60,000 volumes and pamphlets and 300 paintings, was bequeathed to the trustees of the Public Library in 1907 by Mr D. S. Mitchell, together with an endowment of \$140,000. In 1967 there were 226,904 volumes in the library, in addition to valuable manuscripts, maps and other material. In 1929 Sir William Dixon gave a collection of historical pictures then valued at \$50,000. These were subsequently added to and at his death in 1952 Sir William bequeathed the whole of his collection of books, manuscripts, pictures and other material,

together with an endowment of more than \$226,000, mainly for the printing or reprinting of historical documents relating to Australia and the Pacific. The total number of volumes in the State Library now exceeds 880,000 apart from manuscripts, historical pictures and other material. The maintenance and control of the ordinary lending branch of the Public Library were transferred in 1908 to the Sydney Municipal Council to become the City of Sydney Public Library. The State Library, which had previously been the repository for State archives, transferred this responsibility to an Archives Authority in June 1961. The Authority consists of nine members, of whom the Trustees of the Public Library have a right to nominate one.

Other important libraries in New South Wales are: Teachers' Colleges, 308,853 volumes; the City of Sydney Public Library, 279,682; Railway Institute 169,657; Technical Education Branch, 217,688; Australian Museum, 35,207; Government Transport Institute, 27,204; New South Wales Teachers' Federation Library, 21,000; Workers' Educational Association, 14,920; and the Library at the National Herbarium, 10,969 volumes. At 30 June 1966 the Parliamentary Library contained 157,821 volumes.

Victoria. The modern movement in municipal library service dates from the inception of the Free Library Service Board in 1947. The Free Library Service Board was a State Government instrumentality which planned, encouraged and subsidised the development of municipal library services. Under the *Library Council of Victoria Act 1965* the control of the Board passed to the Library Council of Victoria and in 1966 its office was redesignated the Library Services Division of the Library Council.

In 1968, 143 Councils, representing 2,624,000 Victorians, shared Government library grants amounting to \$1,199,000. Of this amount, \$1,121,483 was direct municipal library subsidy. With the addition of expenditure from these Councils' own funds the total expenditure on municipal library services for 1967-68 will be nearly \$3,000,000, representing an average expenditure of approximately \$1.11 cents per head of the population served. In 1967, 600,000 borrowers used their free library services, now totalling 2,033,000 books, to the extent of almost 12 million issues.

Particularly in the country, service has been developed by means of regional libraries. These services, of which there are 20 at present, comprising a total of 86 councils, consist of groups of councils which pool their resources, book-stocks and trained staff. A development since 1962 has been the formation of three Metropolitan Regional Library Services. The Victorian Government provides an Establishment and Regional Library Development Grant of \$50,000 per annum. In 1967 this was increased by \$10,000.

There are 9 bookmobile services operating in Victoria, 6 in country regions and 3 in the metropolitan area.

The State Library of Victoria was established in 1856. It is controlled by the Library Council of Victoria and receives its finance from the State Government. The reference collections now total about 850,000 items, and the lending and travelling libraries have another 185,000 volumes. In addition, the library files 4,500 current periodicals, about 2,000 government publications from Australia and overseas, and 500 newspapers, in all about 50,000 volumes. Special collections include the J. K. Moir Collection of Australiana, the M. V. Anderson Chess Collection, and the Green and Brodie Shipping Collections. The Victorian Historical Collection contains pictures, drawings, prints, and objects of historical interest. The Archives Division is responsible for the preservation of government records.

Queensland. The Library Board of Queensland was established in 1945 under the provisions of 'The Libraries Act of 1943'. Its duty is to attain the fullest co-operation and improvement of the library facilities of the State, with the object of placing such facilities on a sound basis for the benefit and educational improvement of the citizens generally. The Board consists of six members including the State Librarian as *ex officio* member and secretary. A general function of the Board is to ensure that the fullest co-operation exists with the Department of Education, the University of Queensland, local bodies, and other bodies having for their object the encouragement of education, literature and the arts and sciences. A specific function of the Board is the control and management of the Public Library of Queensland. Its policy is to build up the main collection of the Library as the State's reference centre.

The Country Extension Service, which is administered as a department of the Public Library, lends books of non-fiction to adults and children residing outside the metropolitan area and to municipal libraries in areas of low population.

The Oxley Memorial Library, established in 1923, has been administered as a department of the Public Library since 1946, but the collection has been kept separate. It contains books, manuscripts, pamphlets, and other graphic material relating to the history and literature of Australia, and of Queensland in particular, and provides facilities for research students in Queensland literature and history.

In 1958 the section of the Libraries Act dealing with the preservation of public records was proclaimed, and in 1959 an Archives Section of the Public Library was instituted and an archivist appointed.

The Library Board staffs the libraries of the Teachers' Colleges and the Queensland Institute of Technology as well as the libraries of eleven government departments, of which the largest is the Department of Primary Industries. The work is co-ordinated by an officer-in-charge, who also gives assistance and advice to independently staffed departmental libraries.

Since 1948 a course in librarianship has been held annually at the Public Library for the purpose of preparing trainees for the examinations of the Library Association of Australia, up to 1961 for its Preliminary Examination, and from 1962 for subjects 1 to 3 of its re-organised Registration Examination. In 1959 a course covering some subjects of the Association's Registration Examination was inaugurated at the Central Technical College, Brisbane.

The holdings of the Public Library of Queensland and its extension services in 1966-67 were: main reference collection, 188,428 volumes and 11,032 maps and pamphlets; Country Extension Service, 89,700 volumes; Oxley Memorial Library, 25,049 volumes and 28,230 maps, pamphlets and miscellaneous items.

Local authorities are empowered by the Libraries Act to establish and conduct library services as a function of local government. The Board encourages local authorities to use these powers. In 1966-67, 79 local authorities were conducting 137 library services. The Brisbane City Council has established 18 of these libraries. There were 112 libraries in Queensland free to adults. To help overcome the problems of a large area and sparse population, various local authorities provide library services on a regional basis. By 30 June 1967, 4 regional library services had been established; the South Western (7 shires), the Central Western (8 shires), the North Western (10 shires), and the Central Highlands (5 shires), with headquarters at Charleville, Barcaldine, Mount Isa, and Emerald respectively. During 1966-67 the Board received a grant of \$561,397 from consolidated revenue to finance the activities of the Public Library and to pay subsidies to local bodies conducting free library services of 50 per cent of endowable expenditure on books and the acquisition or improvement of library buildings and equipment with an upper limit of \$8,000 in respect of new library buildings, and 50 per cent of endowable expenditure on books, equipment and maintenance to local bodies conducting subscription libraries. Subsidies were paid to 4 regional library service boards, 52 local authorities and 39 other bodies.

The Queensland Parliamentary Library was established by the first Parliament in 1860. At 30 June 1967 it contained 96,309 volumes and pamphlets. Included in its valuable collection are long sets of periodicals, newspapers, statutes and government publications, which are currently maintained. The books are devoted largely to the social sciences, although history, geography and biography are well represented. Among the features of its service to Members of Parliament are its newspaper clippings file and copying facilities.

'*The Libraries Act Amendment Act of 1949*' provides for the Public Library and the Parliamentary Library each to receive a copy of all books, pamphlets, maps, and other printed material published in Queensland.

South Australia. In the reference department of the State Library of South Australia there are about 247,416 volumes, most of which may be borrowed. Approximately 5,000 periodical titles are filed and the collection of newspapers includes every newspaper printed in South Australia. There are 49,020 volumes in the Adelaide Lending Service; these books are available to persons living in the metropolitan area. The Country Lending Service has 345,351 volumes, of which more than one-third are suitable for children. The Adelaide Lending Service lent 283,563 books in 1966-67, and the Country Lending Service, 219,133. The Library has an active programme for the publishing of facsimile editions of early Australian texts.

The Research Service specialises in scientific and technical inquiries and supplements the resources of the State Library by borrowing from other libraries and by obtaining microfilm copies of material not available locally. It has an extensive collection of trade catalogues and standards.

The library of the Parliament of South Australia held approximately 60,000 volumes at 31 December 1967.

There are 28 local public libraries in South Australia provided by 22 local government and other authorities. The libraries are subsidised on a \$1 for \$1 basis by the State Government. The Libraries Board of South Australia, through the State Library of South Australia, provides various central services. Book-stocks are pooled in the State Library of South Australia and are interchanged between the libraries.

At the end of June 1967 these local public libraries contained 195,684 books. There were 111,205 registered borrowers. During 1966-67, 1,808,768 books were lent.

Western Australia. In 1955 the Library Board of Western Australia was made responsible for all public library services throughout the State to which the State Government contributes funds. The Board has the following major functions: to encourage local authorities throughout the State to establish public libraries and to provide as a State subsidy all books and bibliographical services necessary for such libraries when established; to administer the State Reference Library; to advise the Government on all matters relating to libraries; and to provide for the training of librarians.

Local public libraries are subsidised on a \$1 for \$1 basis, the local authority providing accommodation and staffing and the Board all books and related services. The Board provides at least one volume per head of the population. All non-fiction books may be made available at any public library throughout the State on request to the Board. All cataloguing is done by the Board. The first library under this scheme was opened in August 1954. By 31 December 1967, 106 libraries had been established.

The State Reference Library, established in 1887, is the reference division of the Library and Information Service of Western Australia. In addition to providing the normal facilities of a reference library for the metropolitan area, it extends its service throughout the State through local public libraries. It is divided into three divisions responsible for service in the subject fields of Western Australian history, science and technology, and the humanities.

The State Bibliographical Centre and the Central Music Library are housed in the State Reference Library Building, and there is also a commercial information centre. The State archives are maintained by the State Reference Library and managed by the staff of the Battye Library. The State Reference Library is fully equipped with microfilm and photocopy apparatus.

The book-stock of the Board at 30 June 1967 was: 780,932 volumes, comprising circulation stock (including books in public libraries), 536,757 volumes; State Reference Library, 229,943 bound volumes; Central Music Library, 3,200 books on music and 11,032 scores.

The University of Western Australia, through its Adult Education Board, manages the Adult Education Library of some 18,500 volumes of general reading and fiction. Books are sent to country readers each month.

There are over 130 special libraries in government departments and industrial firms. Union catalogues of periodicals and books received in the libraries in Western Australia are maintained by the Library Board of Western Australia in the Bibliographical Centre in the State Reference Library building.

Tasmania. The Tasmanian Library Board administers the State Library in Hobart, the extension of library services throughout the State and State aid to libraries, and controls the State Archives. State Government expenditure on library services in 1966-67 was \$497,344.

Through the State Library, the Board provides reference and information services, documentary film and recorded music libraries, and arranges recorded music recitals, film screenings, displays, and exhibitions, etc. Two bookmobiles, based in Hobart, provide a library service to the rural areas of thirteen southern municipalities. All municipalities receive loans of childrens books, the number of books being dependent on the child population of each municipality.

To qualify for State aid for an adults library, a municipal council is required to spend on library services an amount equal to a rate of 0.25 cents in the dollar of the assessed annual value of all rateable property in the municipality. In 1967 all municipalities except Glamorgan received assistance. The Board's aid consists of the loan of collections of books at least equal in value to municipal expenditure from rates. Most of the books supplied this way are exchanged by the Board each year.

A regional library, formed by the Board to give a more efficient and comprehensive service, operates in the north-western municipalities of Penguin, Burnie, Circular Head, Wynyard, and Waratah, with headquarters in Burnie. The regional scheme has a reference library in Burnie, small libraries in the larger towns and a bookmobile for rural areas.

The Hobart City Council library service is amalgamated with the State Library in Hobart and is run by the Board. In addition, a bookmobile serves schools in the metropolitan area. The libraries of the cities of Glenorchy and Launceston are administered by the Board; a bookmobile serves municipalites close to Launceston. At 30 June 1967 the State Library in Hobart held 109,512 reference volumes and 103,412 lending volumes. Municipal libraries (which include Launceston and Glenorchy) had 368,396 books, of which 156,507 were children's books. The State Library works closely with the Parliamentary Library and provides a reference officer to help with Member's queries when Parliament is in session.

University libraries

These libraries provide material not only for the education of graduates and undergraduates, but also for research workers and practical investigators all over the continent. Much of the material

they contain is not available elsewhere, for although in most cases smaller, they are in many directions more highly specialised than the public libraries. They lend to one another and to State and private institutions as well as to individual investigators. Each of them is governed by a librarian, who is responsible as a rule to an executive sub-committee and a committee which is practically co-extensive with the professorial staff.

The following table shows the volumes held, accessions during the year, and expenditure of the Australian university libraries.

UNIVERSITY LIBRARIES

| <i>University</i> | <i>Volumes</i> (a) | <i>Accessions</i> <i>during year</i> (b) | <i>Expenditure</i> (c) |
|-------------------------------|-----------------------|--|---------------------------|
| | '000 | '000 | \$'000 |
| Australian National | 435 | 37 | 649 |
| Sydney | 1,054 | 67 | 980 |
| New South Wales | 373 | 28 | 728 |
| New England | 228 | 20 | 256 |
| Newcastle | 116 | 13 | 189 |
| Macquarie | 93 | 42 | 250 |
| Melbourne | 511 | 40 | 832 |
| Monash | 252 | 37 | 694 |
| La Trobe | 55 | 14 | 300 |
| Queensland | 485 | 41 | 656 |
| Adelaide | 443 | 32 | 548 |
| Flinders | 96 | 23 | 189 |
| Western Australia | 307 | 26 | 402 |
| Tasmania | 155 | 9 | 184 |
| Total | 4,603 | 429 | 6,857 |

(a) 31 July 1967. (b) Year ended 31 July 1967. (c) During year ended 31 December 1966.

Australian National University. This library comprises three main sections attached to the Institute of Advanced Studies, the School of General Studies, and the Centre of Oriental Studies. The Advanced Studies collection of some 236,000 volumes is closely related to the special interests of the six Research Schools in the Institute. It has a wide range of periodical literature and is strong in the fields of anthropology and linguistics, mathematics, mathematical statistics, physics, chemistry, and the non-clinical medical sciences, and has sought to acquire a good working collection of secondary material of high standard in the social sciences. The General Studies collection (approximately 143,000 volumes) is designed to further teaching at all levels in the Faculties of Arts, Economics, Law, and Science, and to provide research facilities in the humanities. The Oriental collection (mainly Chinese, Japanese, and Indonesian) is primarily a research collection and at present contains approximately 79,000 volumes. The resources of the National Library of Australia are available to members of the University, who also have access to many specialised collections of material held by government instrumentalities in Canberra.

University of Sydney. The library consists of the central collection which is known as the Fisher Library, the Law Library, the Medical Branch Library, the Burkitt Library for pre-clinical medicine, and some 49 departmental libraries. The University Library holds a total of more than one million volumes.

The first books were acquired in 1851, and shortly afterwards the library of Sydney College was added. The collection of Nichol D. Stenhouse was acquired in 1878 as the gift of Thomas Walker. In 1885 Thomas Fisher bequeathed the sum of \$60,000, the income from which is used as a book fund. The Fisher Fund was matched in 1961 by establishment of the W. H. and Elizabeth M. Deane Library Fund. Perhaps the finest collection in extent and importance which has been given to the University is that of Sir Charles Nicholson. There have been numerous other benefactions, among which may be mentioned the library of Sir Francis Anderson, the W. H. Deane collection of books and manuscripts and the Dalley-Scarlett music library. In 1961 the University acquired the English literature collection of the late Hugh Macdonald, and the late Professor J. Stewart's library, an outstanding collection on archaeology and numismatics, was acquired in 1963. The Sydney University Library has an extensive collection of mediaeval manuscripts and early printed books.

University of New South Wales. The libraries in this university consist of the Central Library and a Bio-medical Library at Kensington. There is also a library at Wollongong University College and the Broken Hill Division. In December 1967 the university had 491,119 volumes in its libraries.

University of New England. The library was founded in 1938, when the New England University College was established. Sir William Dixson was its first benefactor. The library, which contains 200,000 bound volumes, is adding to its collection at the rate of approximately 20,000 volumes a year. It receives approximately 5,000 current periodicals annually. It is housed in a three-storied, air-conditioned building, which also makes provision for a bindery and photographic and archives division. A post-graduate and research library is planned as an extension of the present building. The library has its own lecturer in bibliography and library service and conducts formal courses in librarianship. A multi-copy collection of 36,000 volumes for external teaching is housed in the Public Library of New South Wales in Sydney.

University of Newcastle. Beginning in 1951 with science-technology materials and associated, through common staffing and housing, with Newcastle Technical College Library until 1961, the library now has a collection of 121,000 volumes and is increasing at the rate of about 12,000 volumes per year. More than 3,000 periodicals are received regularly by subscription and donation. The resources of the library are used extensively on inter-library loan both within the Newcastle district, particularly by local industries, and increasingly, as the library's resources grow, by the other research libraries of the country.

In January 1968 a major part of the library's collections was transferred to temporary premises at the new site of the University at Shortland. The first stage of the permanent library building was completed in January 1968. To it will be brought, as the departments move to Shortland, the one-sixth of the collection still at Tighes Hill. There are no departmental libraries.

Macquarie University. The library began in 1965 to acquire books and to plan for its opening in 1967. It occupied temporary quarters in North Sydney until mid-1967, when it moved into the first stage of a new air-conditioned building, which is centrally situated on the university site at Eastwood and planned to house eventually 800,000 volumes. The library subscribes to 1,700 serials and has an audio-visual area. When the library opened in March 1967, approximately half of its total collection of 70,000 volumes had been donated by private individuals, firms and other libraries. In March 1968 its stock stood at 143,618 and its acquisition programme was still being heavily supported by donors. The library staff conducts an extensive programme of lectures and tutorials in bibliography and library use for both undergraduate and post-graduate students.

University of Melbourne. Early in 1854 the first allocation for books was made, but the library was housed in temporary quarters until 1959. The W. L. Baillieu Trust made available the first instalments of a \$200,000 gift for building purposes, which have been followed by subsequent gifts and substantial grants from the Commonwealth and State Governments, and a new building was occupied at the beginning of 1959, the first in the university to be designed specifically for library purposes. Since 1959 the use of the library has increased fourfold, and during the academic year admissions of readers to the building averaged 8,000 a day. The building has become inadequate for all purposes and a doubling of its present floor area is required urgently. The resources of the library are also used extensively on inter-library loan by government instrumentalities, industries and other organisations throughout Australia. The University Library, including 13 branch libraries in various departments, is administered from the centrally situated Baillieu Library. The large medical branch library is specially rich in periodicals.

Monash University. The library contains about 273,500 volumes and subscribes to some 6,400 journals. It has been decided that the library organisation will develop into four large units—the main library, a bio-medical library, a law library, and a library for the physical sciences and technology. The physical sciences and technology library has been named the Hargrave Library and was opened in December 1962. The main library, catering mainly for the humanities, was occupied in November 1963. The bio-medical library was occupied in 1966, and the law library in February 1968.

La Trobe University. The university was founded in December 1964 and the first books were acquired in 1965. Library activities began at 474 St Kilda Road, the temporary headquarters of the university itself. The move to the new building at the university site at Bundoora was completed in the first week of February 1967. The library is housed in a three-storey air-conditioned building which is designed to be extended horizontally in two stages by 1977. The first stage has accommodation for about 130,000 volumes and 420 readers. By the end of 1967 the library had acquired about 70,000 volumes and received about 1,400 periodicals and serials, catering for the Schools of Agriculture, Biological Sciences, Humanities, Physical Sciences and Social Sciences.

University of Queensland. The library was founded in 1911. There is a main library and a number of departmental libraries at St Lucia, and medical libraries at the Medical School and at teaching

hospitals. The library receives more than 14,000 current periodicals. It has notable collections in geology, the history, development and culture of the Pacific region, and tropical aspects of agriculture, veterinary sciences and biological sciences. The total collection numbers some 480,000 volumes.

University of Adelaide. The main library is the Barr Smith Library which commemorates its first benefactor, Robert Barr Smith, who, with members of his family in and after 1892, gave the university over \$100,000 for the library. Seats are provided for 1,000 readers, including 270 in the main reading room. There are branch libraries for medicine, law and music, with seats for 450 readers. The South Australian branches of the Australian Medical Association, the Australian Physiotherapy Association, and the Australian Dental Association make annual contributions towards the maintenance of the medical library in return for borrowing privileges for their members. The Waite Agricultural Research Institute has a separately administered library of about 22,500 volumes in agricultural science. Total holdings of the university libraries at the end of 1967 were 459,000 volumes. Some 15,375 serial titles are received.

The Flinders University of South Australia. The acquisition of books for the library commenced in 1963 when the first library staff were appointed. By the time teaching began in March 1966 a collection of some 60,000 volumes had been assembled. At the end of 1967 the collection contained over 100,000 volumes. Approximately 20,000 volumes are being added each year, and the library receives currently about 3,000 periodical titles. During the early development of the library emphasis is being placed on material to support the current teaching and research programmes of the university. Special attention is being paid to fields where little material is available elsewhere in Australia, for example Spanish literature. The first stage of the library building was occupied at the end of 1965, and the second stage extension which completed the building was finished late in 1967.

University of Western Australia. The first full-time library staff was appointed in 1927. Provision for a permanent library building was not possible when the university moved to its present site, and space and facilities were inadequate for many years. A new four-storey building was completed at the end of 1963. The building provides facilities for microfilm readers, typewriting booths and photo-copying facilities. The University Library developed very slowly in the early years, but recently has been adding about 20,000 volumes a year to its stock. In addition to the main library there are a number of departmental libraries of which the more important are engineering, agriculture, pre-clinical, and law. There is also a medical library, in accommodation provided by the Royal Perth Hospital, for the use of the medical school.

University of Tasmania. To cater for an anticipated enrolment during 1968 of 2,600 students, the library currently has a collection of 171,788 volumes, and files 4,786 serial titles. The 1968 vote for all purposes is \$109,000, of which \$40,500 is allocated for books and \$59,500 for serial publications and back sets. The university library collects private and business archives and has a small rare book collection.

Children's libraries and school libraries

New South Wales. Children's libraries are being developed as departments of municipal and shire libraries. The Education Department maintains a school library service for the fostering of State school libraries, which are maintained partly by parents and citizens associations and partly by departmental subsidy. Secondary and central schools, and an increasing number of primary schools, have teacher librarians.

Victoria. Throughout Victoria an essential feature of libraries is the service for children; 129 municipal libraries share in a special children's library grant of \$10,000, and on the staff of the Library Services Division is a professional children's librarian who supervises and advises on work with children.

The Education Department is making provision for the building of library rooms in new schools. Where accommodation is available in existing schools, library furniture is provided free of costs to the schools, and the Government subsidises the purchase of books. In June 1967, 619 schools had central libraries. The Education Department has a library service officer with a small staff to advise and assist schools in the establishment and organisation of libraries. A one-year course for the training of teacher-librarians was established at Melbourne Teachers' College in 1955. Approximately 30 teachers are trained each year.

Queensland. The Library Board of Queensland stresses to local bodies the importance of providing adequate library services for children. There are in Queensland 135 libraries free to children, of which 18 are conducted by the Brisbane City Council. The children's libraries at Rockhampton, Toowoomba and Townsville are particularly active. Country children who are not catered for locally may borrow from the Country Extension Service which possesses a separate children's collection. The purchase of books for State school libraries in Queensland is financed by school

committees and parents associations, with a subsidy from the Department of Education on a \$1 for \$1 basis. Trainees at the teachers colleges are instructed in school library organisation and management.

South Australia. A children's library of 38,965 volumes is used by school classes and individual children living in the metropolitan area. In 1966–67, 209,245 books were lent. There is a large collection of historical children's books assembled for the use of research workers. In August 1957 a youth lending service was opened for young people from thirteen to eighteen years of age. It has a stock of 15,374 volumes, and in 1966–67, 99,304 loans were recorded.

Western Australia. The Education Department provides library services, issues of books and subsidies on library books to schools. School libraries are supplied with shelving, furniture, stationery, and library supplies. The Library Services Branch of the department provides advisory services to assist schools in all aspects of library organisation and service. It also relieves schools of the professional and routine tasks of book preparation by providing a central cataloguing service for both new books and those previously uncatalogued in school libraries, a central processing service to cover books in plastic and prepare them for use, and a library book repair and binding service. Book selection in schools is assisted by a model library and by lists of recommended books.

The teachers colleges provide courses in school library organisation and service and have developed college libraries directed by qualified librarians. At the Perth Technical College part-time courses are provided on the syllabus for the examinations of the Library Association of Australia and are attended by many school librarians. The Perth Technical College and technical schools are equipped with libraries, and an allocation of funds is provided annually to each school and college department for the purchase of books and periodicals. Books for technical schools other than Perth Technical College are centrally ordered, catalogued and processed by the Library Services Branch.

All high schools are provided with library accommodation and furniture. New high schools have been provided with a main library, reading room, study room and librarian's office. High school libraries are staffed by one or two trained school librarians according to the size of the school. New high schools are issued with books to a value of \$1,000 in each of their first three years. All high schools receive annually an issue of books, as well as being entitled to a subsidy for the purchase of library books. A number of primary schools have organised school libraries in rooms which have become available, or in premises provided by the parents and citizens associations. Annual issues of books are made to all primary schools, varying according to the size of the school, and a subsidy is provided for the purchase of library books. The Charles Hadley Travelling Library provides 400 boxes of books which are circulated to all small schools, mission schools and special classes. Children who are unable to attend school, mainly those in isolated areas, are provided with books from the Correspondence School's library.

Tasmania. All the State's municipal libraries have Lady Clark Memorial Children's Libraries. The Lady Clark Memorial Children's Library in the State Library in Hobart has 27,000 books and serves schools in the Hobart metropolitan area by bookmobile. More than 150 schools which are not close to a municipal library have collections of books on loan from the Lady Clark Memorial Children's Library.

Special libraries

Before the 1939–45 War the number of special libraries, apart from those maintained by government departments, was small, but during recent years many manufacturing, commercial, research and other firms, as well as statutory bodies, have found it necessary to establish special libraries to serve their staff. These libraries, which are most numerous in Sydney and Melbourne, are being increasingly administered by trained librarians.

Archives

General interest in archives in Australia was aroused in 1888, when the Colony of New South Wales celebrated its centenary, the occasion being marked by official publication in 1889–1894 of the *History of New South Wales from the Records* by G. B. Barton and A. Britton, and in 1893–1898 of the series of *Historical Records of New South Wales*, edited by A. Britton and F. M. Bladen. Both publications were based on transcripts of documents in London which had been made by Mr James Bonwick, appointed Archivist by the Government of New South Wales in 1884.

In 1902 Mr F. M. Bladen presented to the Commonwealth Government a report on European Archives (see *Parliamentary Papers*, 1903, Vol. II, p. 993), in which he recommended the establishment of a Commonwealth Archives Office and the copying of further official records in London. The copying project continued and some of its results were embodied in the volumes of *Historical Records of Australia*, published by the Commonwealth in 1914–1925, under the editorship of Dr J. F. Watson.

Measures for the preservation and storage of original documents were not taken until later years. In the absence of duly constituted archives offices, the various major libraries throughout Australia undertook the collection of historical records, both from official and private sources. An Archives Department of the Public Library of South Australia was established in 1920, and other institutions formed archives branches in 1944 (Commonwealth National Library), 1945 (Public Library of Western Australia), 1948 (State Library of Victoria), 1949 (State Library of Tasmania), 1953 (Public Library of New South Wales), and 1959 (State Library of Queensland). Legislation to govern arrangements for official records was passed in South Australia in 1936 and in 1943 in Tasmania and Queensland. Since 1961, separate authorities for official archives have been established: Commonwealth Archives Office, 1961; Archives Office of New South Wales, 1961; Archives Office of Tasmania, 1965. A Business Archives Council was established in 1954 to co-ordinate activities in the field of company records.

Commonwealth Archives Office

In 1943, following a report by an inter-departmental committee, the Prime Minister directed the formation of a War Archives Committee to arrange for the preservation of war records. This Committee recognised that war archives could not be separated from peace-time archives, and in 1946 the name was changed to the Commonwealth Archives Committee. In 1952 the National Library became the sole archival authority for the Commonwealth and the Chief Archivist became the Executive Officer for the Committee. In March 1961, in accordance with a recommendation of the National Library Inquiry Committee, the Archives Division of the National Library was reconstituted as the Commonwealth Archives Office within the Prime Minister's Department. The Archives Office functions, in part, as a central agency for the control of those records created by the Commonwealth Government which are no longer required for frequent use in the day-to-day business of government and which, in many cases, contribute towards the development of a unique record of the heritage of the Australian nation. As a complementary function the Office also provides services for members of the public. These functions are carried out through the following basic activities.

Registration of record series. The Office maintains the Commonwealth Register of Record Series, in which details of all Commonwealth records are entered, including those in government departments as well as archival holdings. The records of the Commonwealth are particularly varied, ranging from early Customs, Post Office, Defence, and other material transferred from the Australian Colonies and States, to records of territories now under Australian administration, in addition to those of the Commonwealth Government proper from 1901. Some papers from non-official sources are also held, such as the records of enemy firms expropriated during the two World Wars, records of the Chaplain of Norfolk Island, and papers of former Commonwealth ministers and officials.

Control of destruction. No Commonwealth records may be destroyed without the concurrence of the Chief Archivist, whose responsibility it is to safeguard broader national interests as distinct from those of the department which compiled the records. This concurrence is given as far as practicable through continuing disposal authorities which enable Commonwealth departments to destroy certain routine classes of records automatically, but records not covered by such continuing authorities are checked before destruction is authorised. Records selected for permanent preservation are assessed as having evidential or informational value to the nation. In the first category are all records documenting the democratic, constitutional, and legal basis of the Commonwealth Government; the origin, development, organisation, functions, policies, and substantive activities of Commonwealth departments; and the rights and entitlements of Australian citizens. These range from the signed copies of Acts of Parliament to duplicate certificates of naturalisation. The second category, while including many records from the first, also covers source material considered of value to researchers in social, economic, and scientific affairs (such as migrant documentation preserved for demographic purposes) and the nation's cultural and technological heritage (represented, for example, in records of copyrights and patents).

Provision of accommodation. Any records which are no longer in active use but which are considered by the originating department or by the Archives Office to warrant preservation, either permanently as national archives or temporarily for a further specified period, may be transferred to an archives repository. While in archival custody they are analysed, arranged, and described, as resources permit, by a wide variety of processes, so that the broadest range of research interests may be served by a comprehensive system of information retrieval. At 30 June 1967 the total holdings of the Archives Office throughout Australia amounted to 300,000 shelf feet of records, including 120,000 feet of permanent material, such as files, manuscripts, registers, cards, books, maps, plans, models, paintings, films, photographs, microfilms, recordings, and tapes, conservatively estimated to be more than 5,000,000 items.

Provision of information. Records in the custody of the Archives Office are available for use by depositing and other departments of the Commonwealth Public Service. During 1966-67 some 248,000 items were lent to departments. The Office also provides departments with special searches and information from the records in its custody (12,500 requests in 1966-67). In accordance with the Commonwealth Government's access rules, the Office also supplies information to members of the public engaged in academic or other forms of research. Records may be consulted by holders of a search ticket in the public search rooms provided. During 1966-67 enquiries were received from 164 researchers. There were 3,500 daily visits to archives search rooms by officials and the public, and 24,500 items were produced for consultation.

Museums and art galleries

In 1964 an annual collection of statistics on a uniform basis was commenced from Australian museums and art galleries. The following paragraphs provide summarised results of the collection and refer individually to the more important museums and art galleries.

A museum or art gallery is considered to be a building, group of buildings or parts of buildings, managed as a unit and intended predominantly for the permanent display of objects of interest (museum) or objects of art (art galleries) to the general public. Institutions displaying live exhibits are excluded (the more important of these are mentioned on pages 571-2), as are buildings used for temporary displays (exhibitions, commercial galleries exhibiting only for sale) without a permanent stock of exhibits; permanent exhibitions which are ancillary to other activities such as exhibits at council chambers, libraries, hotels, and other commercial enterprises providing services to tourists and sightseers; collections which are not readily accessible to the general public, such as university collections for the use of students and research workers; and historic homes, etc. not specifically intended for the permanent display of objects of interest (i.e. where the building itself and its normal fittings are essentially on display).

Museums and art galleries, 1967

The following table classifies by States and Territories and by ownership the institutions in Australia which have been identified in 1967 as museums and art galleries (branches of museums and art galleries are not shown separately).

MUSEUMS AND ART GALLERIES: STATES AND A.C.T., AND OWNERSHIP, 1967
(Number)

| | <i>Major institutions</i> | | | <i>Other institutions</i> | | | <i>All institutions</i> |
|--|---------------------------|----------------------|---------------------------|---------------------------|----------------------|---------------------------|-------------------------|
| | <i>Museums</i> | <i>Art galleries</i> | <i>Mixed institutions</i> | <i>Museums</i> | <i>Art galleries</i> | <i>Mixed institutions</i> | |
| State or Territory— | | | | | | | |
| New South Wales | 3 | 1 | .. | 5 | 2 | 2 | 13 |
| Victoria | 2 | 1 | .. | 2 | 5 | 2 | 12 |
| Queensland | 1 | 1 | .. | .. | 3 | .. | 5 |
| South Australia | 1 | 1 | .. | 6 | 1 | .. | 9 |
| Western Australia | 1 | 1 | .. | 1 | 1 | .. | 4 |
| Tasmania | .. | .. | 2 | .. | .. | .. | 2 |
| Northern Territory | .. | .. | 1 | .. | .. | .. | .. |
| Australian Capital Territory | 1 | .. | 1 | .. | .. | .. | 2 |
| Ownership— | | | | | | | |
| Commonwealth Government | 1 | .. | 1 | .. | .. | .. | 2 |
| State Governments | 8 | 5 | 1 | 2 | .. | 1 | 17 |
| Municipal authorities | .. | .. | 1 | 4 | 5 | 2 | 12 |
| Private trusts | .. | .. | .. | 2 | 5 | 1 | 8 |
| Universities | .. | .. | .. | 2 | 1 | .. | 3 |
| Private | .. | .. | .. | 4 | 1 | .. | 5 |
| Total museums and art galleries | 9 | 5 | 3 | 14 | 12 | 4 | 47 |

The following table sets out particulars of staff, display areas and expenditure for all museums and art galleries identified in 1967.

MUSEUMS AND ART GALLERIES: STAFF, DISPLAY AREA, ATTENDANCE, AND EXPENDITURE, STATES AND A.C.T., 1967

| | <i>N.S.W.</i> | <i>Vic.</i> | <i>Qld</i> | <i>S.A.</i> | <i>W.A.</i> | <i>Tas.</i> | <i>A.C.T.</i> | <i>Aust.</i> |
|---------------------------------------|---------------|-------------|------------|-------------|-------------|-------------|---------------|--------------|
| Total staff— | | | | | | | | |
| Museums | 169 | 130 | 34 | 83 | 48 | .. | 16 | 480 |
| Art galleries | 45 | 67 | 20 | 29 | 19 | .. | .. | 180 |
| Mixed institutions | 15 | 8 | .. | .. | .. | 48 | 61 | 132 |
| <i>All institutions</i> | 229 | 205 | 54 | 112 | 67 | 48 | 77 | 792 |
| Display area used— | | | | | | | | |
| Museums '000 sq ft | 104 | 71 | 28 | 51 | 19 | .. | 11 | 284 |
| Art galleries " " | 51 | 87 | 20 | 29 | 12 | .. | .. | 199 |
| Mixed institutions " " | 13 | 9 | .. | .. | .. | 65 | 80 | 167 |
| <i>All institutions</i> " " | 168 | 167 | 47 | 80 | 32 | 65 | 91 | 650 |
| Estimated attendance during year— | | | | | | | | |
| Museums '000 | 666 | 817 | 136 | 264 | 147 | .. | 171 | 2,201 |
| Art galleries " " | 401 | 518 | 98 | 101 | 122 | .. | .. | 1,240 |
| Mixed institutions " " | 69 | 70 | .. | .. | .. | 142 | 513 | 794 |
| <i>All institutions</i> " " | 1,136 | 1,405 | 234 | 365 | 269 | 142 | 683 | 4,234 |
| Estimated expenditure during year(a)— | | | | | | | | |
| Museums \$'000 | 569 | 337 | 108 | 198 | 198 | .. | 38 | 1,448 |
| Art galleries " " | 83 | 383 | 39 | 115 | 112 | .. | .. | 732 |
| Mixed institutions " " | 27 | 177 | .. | .. | .. | 170 | 333 | 707 |
| <i>All institutions</i> " " | 679 | 897 | 147 | 312 | 310 | 170 | 371 | 2,886 |

(a) Excludes funds not controlled by the institution.

The following table gives figures for staff, display area, etc., for each of the seventeen institutions identified in 1967 as major because of the size of their exhibits, their popularity and the extent of the information and investigation services they provide.

MUSEUMS AND ART GALLERIES, MAJOR INSTITUTIONS: OWNERSHIP, STAFF, DISPLAY AREA, ATTENDANCE, EXPENDITURE, ETC., 1967

| | <i>Australian War Memorial, Canberra</i> | <i>Australian Institute of Anatomy, Canberra</i> | <i>Australian Museum, Sydney</i> | <i>Museum of Applied Arts and Sciences, Sydney</i> | <i>Geological and Mining Museum, Sydney</i> | <i>Art Gallery of N.S.W., Sydney</i> | <i>National Museum of Victoria, Melbourne</i> | <i>Institute of Applied Science of Victoria, Melbourne</i> | <i>National Gallery of Victoria, Melbourne</i> |
|--|--|--|----------------------------------|--|---|--------------------------------------|---|--|--|
| Ownership | Cwlth | Cwlth | State | State | State | State | State | State | State |
| Staff— | | | | | | | | | |
| Scientific, professional, teaching, preparational | 8 | 8 | 35 | 21 | 9 | 12 | 46 | 57 | 26 |
| Administrative and clerical, attendants, cleaners, other | 53 | 7 | 42 | 36 | 12 | 21 | 14 | 9 | 27 |
| <i>Total staff</i> | 61 | 15 | 77 | 57 | 21 | 33 | 60 | 66 | 53 |
| Display area used '000 sq ft | 80 | 9 | 51 | 29 | 12 | 40 | 41 | 26 | 44 |
| Annual attendance '000 | 513 | 171 | 382 | 250 | 24 | 350 | (a)380 | 397 | 391 |
| Expenditure \$'000 | 333 | 38 | 301 | 200 | 2 | 50 | 185 | 148 | 265 |
| Number of lectures | 52 | .. | 600 | 4,793 | 184 | 140 | 227 | 1,120 | 696 |
| Total attendance at lectures '000 | 1 | .. | 32 | 140 | 6 | 4 | 9 | 63 | 14 |
| Field-work man-days | .. | .. | 950 | 150 | 45 | .. | 234 | 20 | .. |
| Books, periodicals, etc. in library '000 | 77 | 7 | 35 | 16 | .. | 5 | n.a. | 4 | n.a. |

| | <i>Queensland Museum, Brisbane</i> | <i>Queensland Art Gallery, Brisbane</i> | <i>South Australian Museum, Adelaide</i> | <i>National Gallery of South Australia, Adelaide</i> | <i>Western Australian Museum, Perth</i> | <i>Western Australian Art Gallery, Perth</i> | <i>Tasmanian Museum and Art Gallery, Hobart</i> | <i>Queen Victoria Museum and Art Gallery, Launceston</i> |
|--|------------------------------------|---|--|--|---|--|---|--|
| Ownership | State | State | State | State | State | State | State | Municipal |
| Staff— | | | | | | | | |
| Scientific, professional, teaching, preparational | 12 | 5 | 37 | 8 | 18 | 8 | 10 | 9 |
| Administrative and clerical, attendants, cleaners, other | 22 | 10 | 21 | 17 | 26 | 10 | 14 | 15 |
| <i>Total staff</i> | 34 | 15 | 58 | 25 | 44 | 18 | 24 | 24 |
| Display area used '000 sq ft | 28 | 7 | 35 | 28 | 17 | 9 | 29 | 36 |
| Annual attendance '000 | 136 | 69 | 190 | 83 | 136 | 114 | (a)60 | 82 |
| Expenditure \$'000 | 108 | 38 | 187 | 110 | 198 | 112 | 109 | 61 |
| Number of lectures | 100 | 9 | 56 | 97 | 449 | 40 | n.a. | 240 |
| Total attendance at lectures '000 | 8 | 1 | 2 | 4 | 17 | 2 | n.a. | 16 |
| Field-work man-days | 149 | .. | 740 | .. | 431 | .. | 80 | 88 |
| Books, periodicals, etc. in library '000 | 39 | 1 | 26 | n.a. | 13 | 1 | .. | 11 |

(a) Estimated.

Some descriptive detail follows in respect of the seventeen major institutions listed in the foregoing table.

Australian Capital Territory

The Australian War Memorial, Canberra. The memorial comprises the national collection of war relics and the building in which these are preserved. The building was opened in 1941. The memorial is administered by a director responsible to a board of twelve trustees. There is a collection of 4,000 art works and a museum collection of more than 40,000 war relics, the gathering of which began on the battlefields of the 1914-18 War and was continued during the subsequent campaigns in which Australian forces have participated. The collection has been enhanced by gifts of relics from the governments of Great Britain, the sister dominions and allied countries, and also by presentations made by ex-servicemen and relatives of those who died. The collection consists of items such as tanks, aeroplanes, submarines, field-guns, boats, and the widest possible range of war trophies down to the smallest items, each relic dependent for its value on its historical background. The works of art, all by Australian artists, depict battle scenes, individual officers and men, etc., and include oil and water colour paintings, drawings, statuary, bronzes, dioramas, and mosaics. There is also a library, which is described on page 558.

The Australian Institute of Anatomy, Canberra. The Institute is described in the chapter Public Health, pages 493-4. It contains displays of biological and anatomical aspects of man and the anatomy of Australian animals. A display of Aboriginal and Melanesian artefacts from the National Ethnographic Collections is temporarily housed in the Institute.

New South Wales

The Australian Museum, Sydney. Founded in 1836, this is the oldest museum in Australia. It is administered by a director and a board of twenty-five trustees as a Government Department attached to the New South Wales Department of Education. It has fine collections of all groups of animal, including insect, fossils as well as mineral and ethnological collections, particularly in relation to Australia and the Pacific.

Museum of Applied Arts and Sciences, Sydney. This museum, with branches at Bathurst, Goulburn, Broken Hill, and Albury, is administered by a director and a board of seven trustees appointed by the Governor of New South Wales. The museum specialises in applied arts (ceramics, glass, oriental arts, costumes, musical instruments, furniture, etc.), applied science and technology (engineering, transport, textiles, electronics, etc.), and among its special features are a Watt beam engine of 1785, No. 1 New South Wales locomotive, Lawrence Hargrave models, colour television, and a planetarium.

Geological and Mining Museum, Sydney. This museum is administered as a branch of the Department of Mines by a curator under the control of the Government Geologist. It is the only one in Australia devoted solely to geology and mining. The display contains a unique collection of ores and economic minerals from New South Wales with material from the other States and from overseas for comparison. Its most important functions are the identification of mineral and rock specimens, several thousands of which are received annually, and the supply of some 20,000 to 30,000 specimens free of charge to schools.

Art Gallery of New South Wales, Sydney. The Gallery originated in the Academy of Art founded in 1871. It is administered by a director and secretary under a board of thirteen trustees responsible to the New South Wales Minister for Education. The gallery has 7,957 exhibits, including 1,664 oils and 161 pieces of sculpture. Australian art in all aspects (except early colonial and native) and modern European painting and sculpture are featured. An Aboriginal art collection includes a unique set of large Melville Island graveposts. Assistance is provided to governments and private organisations in the design of books, coins, notes, etc., the preparation and judging of exhibitions, and the supply of research material and information.

Victoria

National Museum of Victoria, Melbourne. The museum was founded in 1854. It is administered by a director and board of seven trustees. It houses substantial collections in the fields of zoology, geology and anthropology. There is a small branch at Tidal River, Victoria.

Institute of Applied Science of Victoria, Melbourne. The Institute was founded in 1870. It is administered by a director and board of seven trustees. Its collections are concerned with aspects of application of all science subjects, but with special emphasis on transport, astronomy, public health, arms, agriculture, and electronics. A planetarium was opened in December 1965.

National Gallery of Victoria, Melbourne. The gallery is administered by a director and board of seven trustees. Its large collections of over 20,000 items feature paintings by Rembrandt, Tiepolo and the Flemish primitives, Dürer engravings, Blake drawings, and English 18th century furniture.

Queensland

Queensland Museum, Brisbane. The museum, founded in 1855, is the State Museum of Natural Science. It is administered by a director as a sub-department of the Queensland Department of Education. The collections are in the fields of the natural sciences, ethnology and history, and include extensive collections of fossil vertebrates.

Queensland Art Gallery, Brisbane. This gallery was established in 1895. It is administered by a director and board of thirteen trustees. The gallery especially features Australian art of all periods, British modern art, French sculpture, and French paintings from the Rubin collection. The Art Gallery has 1,790 display items, including 559 oils.

South Australia

The South Australian Museum, Adelaide. The museum is a department of the South Australian Public Service and is administered by a director and board of five trustees. It features natural science and anthropological collections. The latter refer to the Australasian and Pacific regions and include an outstanding collection of Aboriginal artefacts.

National Gallery of South Australia, Adelaide. The gallery originated in 1881. It is administered by a director and board of seven trustees. Apart from the usual art gallery collections, devoted chiefly to British and Australian works, it features a large collection of prints containing examples from European, British, Oriental, and Australian schools, and a numismatic collection which is widely regarded as the finest in Australia. It also contains the South Australian Historical Collection and a small collection of weapons. It has 56,626 exhibits, including 2,084 oils and watercolours, and 12,029 engravings and prints.

Western Australia

Western Australian Museum, Perth. The museum was established in 1895. It is administered by a director and board of five trustees appointed by the Western Australian Government. The zoological collections cover all vertebrate and most invertebrate fields, particularly marine. There are collections relating to vertebrate palaeontology and meteorites, fossil invertebrates, and some fossil plants. There are extensive collections of Aboriginal artefacts and European arms and armour.

The Western Australian Art Gallery, Perth. The gallery was established in 1895 and is administered by a director and government-appointed board of five trustees. It features especially collections of Australian paintings, drawings, ceramics and sculpture, a fine collection of Australian contemporary art, and a major Henry Moore sculpture. It has collections of coins and of Western Australian stamps. Altogether there are 3,444 items, including 444 oils and 43 pieces of sculpture.

Tasmania

Tasmanian Museum and Art Gallery, Hobart. Opened in 1887, the Tasmanian Museum and Art Gallery is administered by a board of trustees. It has a branch at Zeehan, namely the West Coast Pioneers' Memorial Museum. The museum part contains zoological, anthropological and geological displays relating to Tasmania. The art displays contain an excellent holding of Tasmanian historical works.

Queen Victoria Museum and Art Gallery, Launceston. This institution, opened in 1891, is owned and administered by the Launceston City Council through a director and a sub-committee of aldermen. It has a branch at Cradle Mountain. Attention is concentrated on collections relating to the natural, biological and historical environment of Tasmania, featuring Tasmanian fauna, Aboriginal relics and historical material. The arts associated with Tasmania are represented by an excellent collection of early colonial period painting and also by a fine collection of costumes, lace and ceramics.

Other museums and art galleries

A short description of some of the thirty remaining museums and art galleries is given in the following paragraphs. The institutions are grouped into those owned by the States, by municipalities and private trusts, by universities, and by private persons.

State-owned institutions. The Dixon and Mitchell Libraries (sections of the Public Library of New South Wales) have galleries in which paintings, drawings, engravings, photographs, coins and postage stamps, all related to Australian and south-west Pacific history, are exhibited. The main area of display comprises 7,051 square feet. Only a fraction of the many thousands of items can be shown. There is a geological museum, maintained by the Victorian State Mines Department, with a comprehensive collection of geological specimens. In South Australia there is a small museum of local and tourist interest—the Old Government House, Belair, displaying furniture, etc. of the colonial era.

Municipal and private trust institutions. In 1967 there were eleven institutions owned by various non-metropolitan municipalities throughout Australia. These range from the Mildura Art Centre with expenditure of more than \$174,000 in 1967, to the Fred and Lucy Gould collection of 319 paintings, drawings and antiques at Toowoomba. Similar institutions are often maintained in major provincial cities by private trusts. These and the municipal institutions often exhibit artistic, historical and other items of special local interest, and as a rule there are associated with them various local societies devoted to the exploration and encouragement of the arts, local history and the like. Thus the Lionel Lindsay Art Gallery and Library at Toowoomba, Queensland, is administered by a board of trustees, originally appointed in 1959 by deed of trust.

University institutions. Most university collections, some of them comprehensive and containing unique material, are reserved essentially for the use of students and research workers, and are therefore not included as museums or art galleries. However, the John Darnell Art Gallery of the University of Queensland, originating from a bequest in 1930, the Macleay Museum of Natural History at the University of Sydney, stemming from a gift to the university in 1888, and the Nicholson Museum of Antiquities at the University of Sydney are open to the public.

Private museums and art galleries. Only five establishments of this nature are included here as museums or art galleries. Four are in South Australia and one in the Australian Capital Territory.

Botanical and zoological gardens

In addition to the zoological gardens referred to in the following paragraphs there are numerous privately owned zoos and sanctuaries, many of them at tourist resorts, which maintain collections of Australian flora and fauna. There are also various national parks, forests, reserves, etc., dedicated for public use, which are preserved largely in their natural condition.

New South Wales

The Sydney Botanic Gardens are situated on the shores of Farm Cove, Sydney Harbour, close to the heart of the city and on the site of the first farm established in 1788 by Governor Phillip. Now occupying sixty-six acres, they contain a large and varied collection of flowering plants, shrubs and trees as well as hothouses of orchids and ferns.

The Zoological Gardens at Taronga Park, on the northern side of Sydney Harbour, were opened in 1916. The area is about seventy acres. The natural formation has been retained as far as practicable, with the object of displaying the animals in natural surroundings, and an aquarium has been built within the gardens. In 1966-67 admissions to the grounds were 782,118 and to the aquarium 268,538. The receipts of the zoological department of the Taronga Park Trust amounted to \$428,336 in 1966-67, excluding an annual State grant of \$50,000, and expenditure amounted to \$446,568. Exhibits at 30 June comprised 1,024 mammals, 2,700 birds, 189 reptiles, and 957 fish.

Victoria

The main botanical gardens in the State are the Royal Botanic Gardens, an area of eighty-eight acres within one mile of the centre of the City of Melbourne, containing over 12,000 species of plants, of which there are some 30,000 individual specimens. Many species of native birds breed on islands in lakes within the gardens.

The Zoological Gardens are situated in Royal Park, and contain a wide selection of animals, birds and reptiles. A wild life sanctuary is also maintained at Healesville and contains specimens of indigenous fauna.

Queensland

Botanical gardens have been established in Brisbane and in several other cities. The Brisbane Botanic Gardens were established in 1855 by the Government of New South Wales. In 1925 the Queensland Government transferred them to the Brisbane City Council. They occupy approximately forty-six acres on the banks of the Brisbane River in the central city area and are noted for their collections of palms, tropical trees and shrubs, and succulents; they contain over 7,500 plants.

South Australia

The Botanic Garden was established in 1855 and opened to the public in 1857. It covers forty-five acres, on which are established collections of Australian and exotic plants from low rainfall and sub-tropical regions. In a large range of glasshouses are collections of tropical, ornamental, and economic plants. Special collections include cacti and succulents, bromeliads, and begonias. An up-to-date and comprehensive botanical and horticultural library is maintained.

Mount Lofty Botanic Garden, of approximately 180 acres, was established in 1960 and is to be opened to the public in the early 1970s.

The State Herbarium was established in 1952 and moved to the present building in 1965. It contains about 250,000 specimens.

The Zoological Gardens, opened in 1883, have an area of approximately 19 acres, and contain a fine collection of animals, reptiles, and birds. There were approximately 373,000 visitors in 1966-67.

Western Australia

A botanic garden and arboretum for the native plants of Western Australia were commenced in 1962 and officially opened in October 1965. The site of this development is in King's Park, a reserve of almost 1,000 acres close to the centre of Perth. The Botanic Garden is the counterpart of the Museum in the botanical field, maintaining living collections of plants for scientific and educational purposes. The West Australian collections at present comprise a total of 1,200 species of trees and wildflowers. Virtually all trees native to the southern half of the State, with the exception of some rare mallees, are represented in the arboretum.

Parties from the Botanic Garden are regularly in the field for the collection of propagating material and contribute to the botanical exploration of the State. Special attention is devoted to locating rare species or species threatened with extinction. Vegetation maps of the State are being built up. Seed of native plants collected is distributed to botanical institutions throughout the world and to private growers and nurserymen. A seed list which normally offers from 900 to 1,000 species is published annually. In 1966-67 almost 5,000 packets of seed were distributed.

Research on propagation of native plants is carried on in the nursery and information acquired is passed on to growers through State branches of the Society for Growing Australian Plants, using the medium of the Society's Journal. Within Western Australia members of the staff constantly lecture and demonstrate, and the nursery is open to conducted parties at regular intervals. Official guides may be engaged by parties of visitors, and as the Botanic Garden develops it is designed to become of value for nature study groups. A Wildflower Exhibition is held in the Park each spring. Facilities are provided for the employment and ancillary training of students enrolled in the three-year course for the Western Australian Certificate of Horticulture and Park Administration.

The Zoological Gardens, which were opened in 1898 at South Perth, have an area of 44 acres and are under the control of the Acclimatisation Committee. Animals, birds and reptiles are exhibited. During the year 1966-67, 151,417 adults and 133,784 children visited the zoo.

Tasmania

The Royal Tasmanian Botanical Gardens adjoining Government House on the Queen's Domain contain a fine collection of exotic trees and shrubs and a small aviary. The gardens are controlled by a board appointed by the State Government, which supports the gardens by annual grants.

There are two privately owned wildlife sanctuaries and zoos, each with a few exotic animals. One is at Granton near Hobart, the other is at Punch Bowl near Launceston. The Launceston City Council keeps a small collection of animals and birds at City Park.

Northern Territory

The Darwin Botanical Gardens were established in 1873 and were planted with imported exotic plants and trees. The gardens now occupy eighty acres and feature tropical plants of both native and overseas origin. They are controlled by the Darwin City Council.

Australian Capital Territory

The Canberra Botanic Gardens have been under development on the lower slopes of Black Mountain since 1950. The gardens are on a 100-acre site and are being developed by the Department of the Interior for the study of the botany, propagation, and cultivation of Australian native plants with the aim of promoting scientific and educational interest in these plants. The gardens were opened for public inspection in 1967 and will be officially opened in 1970.

Book publishing

Australian book publishing

Statistics about Australian book publishing are prepared from data supplied by the National Library of Australia (see page 557). Through the deposit provisions of the *Copyright Act* 1912-1966, its overseas collection agents and its own efforts, the National Library receives practically all books and pamphlets published in Australia (including the External Territories), although not necessarily

in the year of publication. Because the statistics compiled and shown hereunder are classified according to the year of publication, the figures are subject to revision as publications come to hand subsequent to the year of publication.

The method of counting conforms with international practice. Each title is counted as one unit. The figures cover all non-periodical publications published in Australia. They refer to all publications of five pages or more and include pamphlets, new translations and re-editions. They include government publications, educational textbooks, published university theses, etc., but exclude publications not available to the general public, advertising material, publications of transitory interest, musical works, and maps and charts.

Number of publications

The first table following shows the number of books and pamphlets published in Australia during the years 1963 to 1967 and received by the National Library, and the second table the number published during the years 1964 to 1967 classified according to State or Territory of publication.

NUMBER OF AUSTRALIAN PUBLICATIONS (1963 TO 1967) RECEIVED BY THE NATIONAL LIBRARY

| <i>Received by the National Library to the end of—</i> | <i>Published during—</i> | | | | |
|--|--------------------------|-------|----------|----------|----------|
| | 1963 | 1964 | 1965 | 1966 | 1967 |
| 1963 | 1,416 | .. | .. | .. | .. |
| 1964 | 2,167 | 1,385 | .. | .. | .. |
| 1965 | 2,312 | 1,934 | 2,039 | .. | .. |
| 1966 | 2,312 | 2,117 | 3,180 | 1,712 | .. |
| 1967 | 2,312 | 2,122 | (a)3,306 | (a)2,659 | (a)2,339 |

(a) Incomplete—see text in first paragraph of section.

NUMBER OF AUSTRALIAN PUBLICATIONS (1964 TO 1967) RECEIVED BY THE NATIONAL LIBRARY, BY STATE OR TERRITORY OF PUBLICATION

| <i>State or Territory</i> | <i>Published during—</i> | | | |
|--|--------------------------|-----------------|-----------------|-----------------|
| | 1964 | 1965 | 1966 | 1967 |
| New South Wales | 722 | 1,263 | 1,177 | 966 |
| Victoria | 539 | 710 | 583 | 600 |
| Queensland | 208 | 286 | 180 | 146 |
| South Australia | 146 | 252 | 161 | 146 |
| Western Australia | 105 | 168 | 53 | 70 |
| Tasmania | 59 | 98 | 48 | 41 |
| Northern Territory | 9 | 19 | 9 | 6 |
| Australian Capital Territory | 313 | 478 | 424 | 329 |
| Papua-New Guinea | 21 | 30 | 19 | 27 |
| Nauru | .. | 2 | 5 | 8 |
| Total | 2,122 | (a)3,306 | (a)2,659 | (a)2,339 |

(a) Incomplete—see text in first paragraph of section.

The next table shows the numbers of books and pamphlets published during the years 1964 to 1967 and received by the National Library, classified by subject-matter.

**NUMBER OF AUSTRALIAN PUBLICATIONS (1964 TO 1967) RECEIVED
BY THE NATIONAL LIBRARY, BY SUBJECT-MATTER(a): AUSTRALIA**

| <i>Subject-matter</i> | <i>Published during—</i> | | | |
|---|--------------------------|-----------------|-----------------|-----------------|
| | <i>1964</i> | <i>1965</i> | <i>1966</i> | <i>1967</i> |
| Bibliography, libraries, general | 42 | 101 | 109 | 69 |
| Philosophy, psychology | 18 | 23 | 19 | 10 |
| Religion | 78 | 117 | 62 | 67 |
| Social sciences | 775 | 1,233 | 917 | 990 |
| Philology | 32 | 45 | 63 | 35 |
| Science | 215 | 302 | 274 | 184 |
| Technology, business | 427 | 607 | 457 | 371 |
| Art, amusement | 115 | 142 | 168 | 102 |
| Literature— | | | | |
| Criticism, anthologies, school editions | 20 | 137 | 45 | 15 |
| Australian poetry | 33 | 29 | 32 | 39 |
| Australian drama | 22 | 5 | 4 | 4 |
| Australian fiction | 156 | 236 | 185 | 178 |
| Australian essays | 4 | 2 | 3 | .. |
| Australian humour and miscellany | 3 | 12 | 9 | 14 |
| Other literature | 20 | 21 | 71 | 73 |
| <i>Total, literature</i> | 258 | 442 | 349 | 323 |
| Travel, biography, history | 162 | 294 | 241 | 188 |
| Total | 2,122 | (a)3,306 | (a)2,659 | (a)2,339 |

(a) The classification is based on the divisions of the Dewey Decimal Classification. (b) Incomplete—see text in first paragraph of section.

Commonwealth Literary Fund

In 1908 the Commonwealth Government, under Alfred Deakin, first established the Commonwealth Literary Fund. The Fund was entirely a compassionate one devoted to literary pensions for aged or infirm authors, for the families of literary men who died in poverty, and for writers who were unable for financial reasons to continue their activities.

In 1939, in an endeavour to encourage the development of Australian literature and to foster appreciation of it, the Commonwealth Government greatly enlarged the scope of the Fund. The Fund now awards fellowships each year, assists in the publication of manuscripts of high literary merit, makes annual grants for lectures in Australian literature, and awards pensions to writers who have achieved a nation-wide reputation for their work in the field of creative literature. The fellowships are awarded each year to writers who have proved their capacity in the field of creative literature and to writers of promise, to enable them to devote their time to working on a literary project they specify. A fellowship carries a maximum value of \$6,000 a year. The Fund does not seek out people on whom to bestow fellowships, but considers only those who submit applications.

The Fund also assists in the publication of manuscripts which have outstanding literary merit, but which, in the opinion of publishers, may constitute a commercial risk. This assistance takes the form of a guarantee of assistance to the publisher. The Fund does not itself enter the field of publishing, nor does it make outright grants to authors to enable them to arrange publication.

From 1940 to 1965 the Fund made grants to universities for special lectures in Australian literature. In 1940, with rare exceptions, universities ignored Australian writing, but by 1964 the majority of them were actively engaged in its study, and Australian literature had become an accepted field of university scholarship. The Commonwealth Literary Fund lectures played an important role in stimulating interest in Australian literature. At present universities may apply for a grant to enable lectures to be given on special occasions.

In 1956 the Fund initiated a scheme of lectures to the general public and to schools, mainly in country areas, with the co-operation of State adult education authorities and Education Departments. All States receive grants for this purpose. The Fund also assists certain literary magazines of recognised literary value.

The Fund is administered by a committee consisting of one representative of each of the three main political parties in the Parliament, the chairman being nominated by the Prime Minister. The committee is advised on all literary matters by an advisory board of six persons with literary qualifications.

Commonwealth assistance to Australian composers

In 1967 the Commonwealth Government appointed an advisory board to advise it on projects to encourage Australian composers. The purpose of Commonwealth aid in this field is to assist any project which will facilitate the performance of Australian music composition and to promote a better understanding of Australian music, thereby improving the status of Australian composers.

National Literature Board of Review

On 1 January 1968 the Commonwealth Government introduced legislation to provide for a National Literature Board of Review of nine members. The Board replaces the Commonwealth Literature Censorship Board and Appeal Board, both of which were advisers to the Commonwealth only in respect of imported literature. A brief history of these Boards appears in Year Book No. 53, page 646.

The National Literature Board of Review was established following Commonwealth-State agreement in 1967, to achieve uniformity in the administration of laws relating to blasphemous, indecent, or obscene publications of *prima facie* literary, artistic, or scientific merit. In terms of the Agreement the Board is established under the Customs (National Literature Board of Review) Regulations. Appropriate Ministers of any State may, under the Agreement, refer works published or distributed locally to the Board for advice. Subject to retention of final responsibility by each Minister it is the intention of the Governments concerned not to act against a publication of merit which the Board advises is suitable for distribution in Australia.

Film production

Australian film production

Australia was one of the pioneers in the history of film-making, *Soldiers of the Cross*, a multi-reel story film, having been made in 1900, three years before America's *The Great Train Robbery*, which is generally considered to be the first genuine story-film. It has been claimed that *The Kelly Gang*, made in 1905-6, was the first full-length feature film produced in the world. Following the outbreak of the 1914-18 War a series of short patriotic films were produced. In 1917 the first of a successful series of rural comedies was made, featuring a family called the Hayseeds. In the same year *The Kelly Gang* was remade and the first film version of *For the Term of His Natural Life* appeared. A first film version of C. J. Dennis's *The Sentimental Bloke* was made in 1919.

The year 1920 was notable for a number of productions with an authentic Australian flavour: *On our Selection*, a first version of *Robbery Under Arms*, another remake of *The Kelly Gang*, and C. J. Dennis's *Ginger Mick*. Production continued at about the same level until the coming of sound in 1928. Altogether, approximately 255 theatrical films were produced by Australian units in the silent period (1900-1930). Lack of equipment hampered the commencement of production of sound films in Australia, but during the 1930's nearly 60 sound films were produced.

During the 1939-45 War, commercial film production combined with the Commonwealth Government in making films. Since the war, a number of British and American companies have made films in Australia. Altogether, about 134 feature films were produced in Australia between 1930 and 1967.

Australian National Film Board

The Australian National Film Board was inaugurated in April 1945, on the recommendation of a Commonwealth Government inter-departmental committee. It was attached for administrative purposes to the Department of Information. With the abolition of that Department in March 1950, administration of the Board was transferred to the News and Information Bureau, Department of the Interior.

In November 1950 the Board was reconstituted as an advisory body to the Minister for the Interior on matters concerned with the production, acquisition and distribution of films required by Commonwealth departments for use within Australia on important matters of national interest and welfare, such as school and adult education, rehabilitation, social development, international understanding, trade and tourist expansion, and immigration; and for dissemination abroad to *expand trade and commerce with other countries, to encourage tourist traffic with Australia, to improve Australia's relations with other countries and, where necessary, to explain Australia's national policies, and to encourage immigration.*

The constitution provides for a membership of twelve, with the Director of the News and Information Bureau as chairman and the remainder representative of Commonwealth departments, State government instrumentalities, and organisations interested in the production, distribution or utilisation of films for national publicity.

Film Division of the News and Information Bureau

Official government film production originated with the appointment in May 1913 of a cinematographer and photographer in the Department of External Affairs. A later development was the establishment, in Melbourne in 1920, of the Cinema and Photographic Branch of the Department of Commerce, and a Government film unit has existed in one form or another to the present day. Early in the 1939-45 War the newly-established Department of Information was made responsible for the operation of the Cinema Branch and for an Official War Photography Unit. When the Australian National Film Board was established in 1945, the Film Division of the Department of Information became the official film production and distribution agency for Commonwealth departments and instrumentalities. In 1950, with the closing down of the Department of Information and the transfer of its functions, the Division became the Film Division of the News and Information Bureau then set up within the Department of the Interior. The Film Division is also known as the Commonwealth Film Unit. Theatrical and television distribution in Australia, and both theatrical and non-theatrical distribution overseas, of all Film Division productions are organised by the Bureau's home office or its overseas representatives. Non-theatrical distribution in Australia is organised through the National Library, Canberra, in co-operation with State film distribution agencies.

Since 1946 the Film Division has produced films for general exhibition, as well as training and special purpose films. In 1967-68 the Film Unit produced approximately 100 reels of new films and 82 reels of foreign versions of existing films. Prints are distributed through 70 overseas embassies and diplomatic posts. While many films are released commercially in Britain, the emphasis is on distribution of educational and information films through non-theatrical circuits. Films are frequently shown on television both in Britain and continental Europe. A similar situation exists in the U.S.A., where there is wide non-theatrical distribution and considerable use of the films by television networks. Selected films have been recorded in French, Dutch, German, Italian, Swedish, Russian, Spanish, Japanese, Malay, Thai, Danish, Greek, Portuguese, Esperanto, and Pidgin.

In addition to films made on its own initiative, the Film Division produces films under the sponsorship of, or with the co-operation of, Commonwealth departments and many other bodies such as the Australian Road Safety Council, the Snowy Mountains Hydro-electric Authority, the Australian National University, the Australian Broadcasting Commission, the Victorian State Electricity Commission, the National Capital Development Commission, the Atomic Energy Commission, the British Broadcasting Corporation, the Australian National Shipping Line, and the Institute of Aboriginal Studies.

Film censorship

Legislation. The Commonwealth Government's powers over censorship of films extend only to imported films and imported advertising matter, and stem from the Customs Act. Under that Act the Customs (Cinematograph Films) Regulations provide for the appointment of a Film Censorship Board whose function is to ensure that films and related advertising material coming within certain defined categories are not admitted into Australia. Under those regulations the Film Censorship Board may pass films in their original form, reject them, or pass them after eliminations have been made. Legislation passed by the State Governments of Victoria, Queensland, Western Australia, and Tasmania names the Commonwealth Film Censorship Board as the censorship authority and vests in it the power to classify films as suitable for general exhibition or not. The State Acts give the Commonwealth Board the authority to censor films made in Australia for commercial exhibition and advertising matter made in Australia.

The censorship organisation comprises a Censorship Board of seven persons and an appeal censor, the headquarters being in Sydney. Importers have a right of appeal to the Minister against decisions of the Board and the Appeal Censor.

Thirty-five mm films for exhibition in motion picture theatres. In 1967, 1,212 films comprising approximately 5 million feet were censored. This represented approximately 950 hours screening time. Of these films, 390 originated in the United Kingdom, 336 in the United States of America, and 486 in other countries. Principal suppliers among the last mentioned were: U.S.S.R. 95, Italy 72, Greece 63, France 43, Germany 28, Japan 22, and Poland and Yugoslavia 13 each. Included in these figures were 477 full-length feature films which constitute the main theatrical attractions. This was a decrease of 77 from imports for 1966. Feature films came from: the United States of America, 138; the United Kingdom, 83; Italy, 64; Greece, 59; France, 28; U.S.S.R., 41; Yugoslavia, 8; and Japan, 6. Thirty-four feature films were rejected and cuts were made from 126. There were 29 appeals, 18 against rejection, 4 against proposed cuts, 2 against classification, and 5 against rejection of advertising matter. Ten appeals were allowed and 19 were disallowed.

Feature films classified as suitable for general exhibition numbered 175, and 268 were considered not suitable for children. Of the latter, 50 carried the special condition that all advertising should indicate that they were suitable only for adults. These classifications are advisory only and are designed to enable picture-goers and particularly parents to obtain a general idea of the nature of any particular film. In addition to these imported films, 133 35 mm films of 130,940 feet produced in Australia were cleared. These were mainly newsreels and documentaries intended for commercial exhibition or export.

Sixteen mm films. Excluding those imported for television use, 6,475 16 mm films of approximately 5 million feet were examined. These were films commercially produced for screening in theatres used by business undertakings for advertising and instructional purposes, and for screening in churches, schools, and universities. They also included home movies and a number of 16 mm theatrical features, some of the latter having been previously imported in 35 mm. Four were rejected.

Eight mm and 9.5 mm films. Approximately 119,000 feet of these small dimension type films were examined. One hundred and seventy-one films with an approximate footage of 13,000 feet were rejected.

Television films. In 1967, 7,584 films, all 16 mm, of approximately 9 million feet, for use on television, were censored. The number of films is not a true indication of volume because many of these were of short duration. In terms of screening time the films censored for television amounted to approximately 4,426 hours. On a footage basis the United States of America supplied 67 per cent of the total imports and the United Kingdom 24 per cent. One hundred and thirteen television films were rejected outright and an additional 11 were classified as unsuitable for televising. Eliminations were made from 1,079. There were 34 appeals, 25 against rejection and 9 against classification, of which 11 were allowed and 23 disallowed.

Foreign language films. Countries other than the United Kingdom and the United States of America supplied 486 of the 35 mm films imported for theatrical exhibition, of which 276 were feature films. Generally, the dialogue is in a foreign language with explanatory English captions. A few have an English commentary and in some cases English 'dubbed' dialogue. Of 6,475 16 mm commercial films censored, 1,356 originated from non-English speaking countries. The chief supplying countries were: France, 194; Germany, 247; Japan, 178; Poland, 83; Holland, 45; Switzerland, 32; Malaysia, 34; Italy, 105; China and India, 29 each; U.S.S.R., 41.

Export of films. The quantity of films exported for the year was approximately 2.5 million feet, consisting mainly of newsreels, advertising films and documentaries. This footage included in many cases several prints of the one film. It also included large quantities of exposed negatives sent overseas for processing.

Cultural organisations

Arts Council of Australia

Patterned on the Council for the Encouragement of Music and Arts which operated in the United Kingdom during the Second World War, an Australian organisation was brought into being in 1943. In 1945 it became The Arts Council of Australia. Originating in New South Wales, Divisions are active now in the Australian Capital Territory, New South Wales, Northern Territory, Queensland, South Australia, and Tasmania. A Federal Council was formed in 1964. New South Wales has a country branch network of over fifty centres. Rapid development in Queensland has resulted in the formation of over thirty-five branches.

The Arts Council Divisions receive State Government grants through the Departments of Education in New South Wales, Queensland, South Australia, and Tasmania. From 1963 to 1966 substantial contributions were received from a private organisation. Some activities of the Council are supported financially by non-metropolitan local government bodies, and grants were made by the Gulbenkian Foundation in 1964 to 1966 to help in re-establishing the Federal Council. The New South Wales Division is a member of the Adult Education Advisory Board in that State, representing the 'live art' section of adult education. The Tasmanian Division is represented on, and works closely with, the Adult Education Board of that State.

Activities of the Arts Council are directed towards decentralisation of the arts for the benefit of country centres and metropolitan and country schools. It is greatly concerned with taking the arts to children as a basic cultural development. Tours of high standard companies in opera, ballet, drama, puppets, etc. are operating throughout the year. The Young Elizabethan Players Company was formed jointly by the Arts Council and the Australian Elizabethan Theatre Trust in 1958 to take Shakespeare to schools in New South Wales and Queensland. This has now been replaced by the Young Tote Company sponsored by the Arts Council and the University of New South Wales

Drama Foundation. The Council handles a wide range of art exhibitions, both for city and country areas. Summer schools and other courses for drama, painting, pottery, music, and other arts are an established feature of the work of the New South Wales and Queensland Divisions.

Yearly drama festivals are conducted for the Little Theatre movement. In 1963 and again in 1965 the New South Wales Division sponsored the first arts festivals for Sydney (North Side Arts Festival), with a wide range of cultural activities concentrated on the north side of Sydney Harbour. The festival is now a biennial event with the fourth festival being planned for August 1969.

Australian Elizabethan Theatre Trust

Inaugurated in 1954 to commemorate the first visit to the Commonwealth of Her Majesty the Queen, the Australian Elizabethan Theatre Trust has since presented drama, opera, ballet and puppetry throughout the Commonwealth. The Trust receives annual grants from the Commonwealth Government, the State Governments and city councils. Its income also includes subscriptions from members and donations from business houses.

In the field of drama it has presented, *inter alia*, the works of Australian playwrights, including plays which were subsequently presented overseas. The Elizabethan Trust Opera Company has given seasons of opera and has presented overseas guest artists, conductors and producers. From 1956 to the end of 1967 more than 1,300 performances of opera have been given by the Trust Opera Company in all States and the Australian Capital Territory. Thirty-one operas have been the repertoire in this period. The Australian Ballet, which commenced its inaugural season in November 1962, has visited all mainland capitals and New Zealand and presented world premiere productions of three commissioned ballets during 1964. The Commonwealth Government gave financial assistance for the Ballet to represent Australia at the Commonwealth Festival of Arts in Britain in 1965. The company also danced at Baalbek, Nice, Paris, Berlin, Copenhagen and Honolulu. It toured New Zealand, Canada and major Latin American cities during 1967 and is touring a number of Asian countries during 1968. The Trust has also been associated with commercial managements in the presentation of overseas attractions and large-scale musicals.

In 1965 the Trust and Arts Council of Australia jointly formed the Marionette Theatre of Australia to promote puppetry, and one puppet company with sponsorship from the Department of External Affairs completed a twelve-nation tour of Asia during 1966-67.

Country areas have been visited by Trust companies presenting opera, drama, ballet, and puppetry, in association with the Council of Adult Education in Victoria and the Arts Council of Australia. During 1968 five special companies will present Shakespeare and other curricular plays for schools in all States, this being an extension of similar work undertaken annually since 1958.

In Victoria the Trust is associated with the University of Melbourne in the Melbourne Theatre Company (formerly known as the Union Theatre Repertory Company). It is also associated with the University of New South Wales Drama Foundation in the Old Tote Theatre Company. The corresponding activity in Adelaide, the South Australian Theatre Company, was introduced by the Trust in 1965. Assistance is given to the Adelaide Festival of Arts, the Festival of Perth, the Perth Playhouse, the National Theatre and Fine Arts Society of Tasmania, and other companies. From a special commissioning fund the Trust commissions theatrical works in all major forms from Australian creative artists.

An important activity of the Trust is its association with the University of New South Wales and the Australian Broadcasting Commission in maintaining the National Institute of Dramatic Art, which they jointly established. This provides a training ground for young Australian actors, producers and technicians. Performing a similar function for selected ballet students, the Australian Ballet School is maintained by the Trust in Melbourne.

Australian Council of National Trusts

The Australian National Trusts were founded to further the general objectives of preservation and conservation of lands, places, buildings, works, and articles which are of national importance by reason of educational, aesthetic, historic, architectural, artistic, scientific, cultural, or other special interest.

The first Australian National Trust, the National Trust of Australia (New South Wales), was formed in 1945. Since then National Trusts have been formed in each of the other States. The Trusts in New South Wales, Queensland, South Australia, and Western Australia have statutory authority, and those in Victoria and Tasmania are incorporated under the Companies Acts of their respective States. The Australian Council of National Trusts was incorporated in 1965 to co-ordinate the activities of the State National Trusts and represent them at the federal level and internationally.

Membership of the National Trusts is open to all individuals and organisations. Total membership throughout the Commonwealth is approximately 21,000. The Trusts are financed by members' subscriptions and donations from individuals and commercial and industrial organisations, the proceeds of charges for entry to Trust properties and the fund-raising activities of members, including inspections of historic houses. In some States the Trusts are subsidised by the State Governments.

The number of properties owned or controlled by the Trusts exceeds sixty. These include houses, natural reserves, a powder magazine, a police station, two paddle steamers and a hulk, a joss house, and a garden. The Trusts have also established a register of buildings (totalling several thousand) including public buildings, churches and buildings in private ownership which they consider should be preserved in the national interest because of their historical and or architectural significance.

Historic Memorials Committee

The Historic Memorials Committee was established in 1911 for the purpose of securing portraits of distinguished Australians who had taken an active part in Federation. Later the Committee decided to obtain portraits of all Governors-General, Prime Ministers, Presidents of the Senate, Speakers of the House of Representatives, and other notable Australians. In addition the Committee may commission, and has in fact commissioned, paintings recording special events connected with the Commonwealth Parliament.

The Committee comprises the Prime Minister (Chairman), the President of the Senate, the Speaker of the House of Representatives, the Vice-President of the Executive Council, the Leader of the Opposition, and the Leader of the Opposition in the Senate. An Art Advisory Board, comprising a group of artists, was established in 1912 to assist the Committee by advising on works of art to be commissioned by the Committee.

Commonwealth Art Advisory Board

Since its beginning in 1912 the Art Advisory Board has always consisted of artists. At present there are five members. As well as assisting the Historic Memorials Committee the Board also advises the Government on the purchase of works of art for inclusion in the National Collection. In 1967-68 \$75,000 was provided for this purpose. The National Collection now contains over 2,000 works of art.

The Board, on behalf of the Government, also organises and finances exhibitions of Australian art in overseas countries. In addition, it financially assists the showing in State Art Galleries of major exhibitions from abroad or assembled by one or more State Art Galleries. In 1967-68 \$40,000 was provided to meet the costs involved in these exhibitions.

SCIENTIFIC AND INDUSTRIAL RESEARCH IN AUSTRALIA

A special article on Science and Technology in Australia, prepared by the Commonwealth Scientific and Industrial Research Organization of Australia, was included in Year Book No. 49 (*see page 781*). A short account of the development of research in Australia and of the governmental and university organisations engaged in research was included in Year Book No. 53 (*see pages 650-2*).

Research in industry

Research in industry has expanded somewhat in recent years, though not at the same rate as in government agencies or the universities. There is a well-defined trend for larger firms to establish their own laboratories, and appreciable sums are being spent on research in the chemical, metals, sugar, and paper industries. To encourage this trend the Government introduced the *Industrial Research and Development Grants Act 1967*. The legislation, administered by the Australian Industrial Research and Development Grants Board, provides for the payment of grants on a dollar for dollar basis to Australian manufacturing and mining companies for increased research and development expenditure.

Companies employing professional research staff are assisted in the performance of their own research and development, but the Act also makes provision for companies to contract research and development with approved research organisations.

The first grants to industry under this Act were made in 1968 and the Government has made available \$6 million a year for this purpose. Special taxation concessions also apply to expenditure on research and development.

Commonwealth Scientific and Industrial Research Organization

The Commonwealth Scientific and Industrial Research Organization (C.S.I.R.O.) is Australia's largest civil scientific body. Established as the Council for Scientific and Industrial Research (C.S.I.R.) in 1926, it was re-organised in 1949 under the Science and Industry Research Act and now has a staff of nearly 6,000 including some 1,800 professional scientists. An account of the organisation and work of the former Council, and the earlier Commonwealth Institute of Science and Industry from which the Council was formed, was given in earlier issues of the Year Book. (*See* No. 14, page 1061 and No. 37, page 1183.)

The principal function of C.S.I.R.O. is to carry out scientific research for the primary and secondary industries of the Commonwealth and its Territories. C.S.I.R.O. does not conduct defence research, medical research or atomic energy research. The other powers and functions of C.S.I.R.O. as defined in the Science and Industry Research Act of 1949, include:

- the training of scientific research workers and the awarding of scientific research studentships and fellowships;
- the making of grants in aid of pure scientific research;
- the recognition or establishment of associations of persons engaged in any industry, for the purposes of carrying out industrial scientific research and the co-operation with, and the making of grants to, such organisations;
- the testing and standardisation of scientific apparatus and instruments and the carrying out of scientific investigation connected with standardisation;
- the collection and dissemination of information relating to scientific and technical matters;
- the publication of scientific and technical reports, periodicals and papers.

Before 1939 C.S.I.R. was engaged largely in research into problems of primary industry, in particular, plant and animal diseases and nutrition, soils, pasture improvement, insect pest control, usage of Australian timbers, food processing, and fisheries. Since 1939 an extensive programme of wool research has been developed, and research has been extended into the physical and engineering sciences with particular reference to international standards, radiophysics, various aspects of chemistry, metal physics, meteorological research, mineral processing, building research, dairy products research and engineering research.

Organisation

C.S.I.R.O. is a statutory corporation operating under its own Act of Parliament and exercising its powers subject to the regulations and the approval of the Minister for Education and Science.

The governing body of the Organization is the Executive, which consists of nine members appointed by the Governor-General. There are five full-time members, one of whom is chairman, and four part-time members. At least five of the members must possess scientific qualifications. The Executive is responsible to the Minister for the policy and the work of the Organization.

For carrying out its research work, C.S.I.R.O. is divided into four major group laboratories and a number of Divisions and Sections. The four group laboratories are the Animal Research Laboratories comprising four Divisions, the Chemical Research Laboratories comprising five Divisions, the National Standards Laboratory comprising two Divisions, and the Wool Research Laboratories comprising three Divisions. There are also twenty-one independent Divisions in other research fields and an additional five independent Sections. The Head Office is in Melbourne and associated with it are the Central Library (*see* pages 557-8), the Film Unit and the Translation Unit. Regional administrative offices are located at Brisbane, Canberra, Melbourne, and Sydney. The Organization also maintains the Australian Scientific Liaison Office in London and the Office of the Scientific Attaché in Washington.

Since the Organization's activities are Commonwealth-wide and often involve extensive field work, a number of branch laboratories and field stations have been established in various parts of Australia. The more important of these are included in the following lists.

Laboratories and Divisions

Animal Research Laboratories, consisting of the following four Divisions.

- Animal Genetics, Sydney, with a branch laboratory and field station at Rockhampton, Queensland, and field stations at Armidale and Badgery's Creek, New South Wales.
- Animal Health, Melbourne, with branch laboratories in Sydney and Brisbane, and field stations at Jimboomba, Queensland, and Werribee, Victoria.
- Animal Physiology, Sydney, with a laboratory and field station at Armidale, New South Wales, and a branch laboratory in Brisbane.
- Nutritional Biochemistry, Adelaide, with a field station at O'Halloran Hill, South Australia.

Chemical Research Laboratories, Melbourne, consisting of the following five divisions.

- Applied Chemistry.
- Applied Mineralogy, with branch laboratories in Perth and Sydney.
- Chemical Engineering.
- Chemical Physics.
- Mineral Chemistry, with a Coal Research Laboratory in Sydney.

National Standards Laboratory, Sydney, consisting of the following two Divisions.

- Applied Physics.
- Physics, with an optical observatory at the Solar Observatory, Culgoora, New South Wales.

Wool Research Laboratories, consisting of the following three Divisions.

- Protein Chemistry, Melbourne.
- Textile Industry, Geelong, Victoria.
- Textile Physics, Sydney.

The other Divisions are as follows.

- Building Research, Melbourne, with an office in Port Moresby, New Guinea.
- Computing Research, Canberra, with subsidiary installations at Adelaide, Melbourne and Sydney.
- Dairy Research, Melbourne.
- Entomology, Canberra, with branch laboratories in Sydney, Brisbane, Hobart, Perth and at Albury and Armidale, New South Wales.
- Fisheries and Oceanography, Cronulla, New South Wales, with branch laboratories in Brisbane, Melbourne and Perth.
- Food Preservation, Sydney, with branch laboratories at Gosford, New South Wales, (operated jointly with the New South Wales Department of Agriculture), and in Brisbane.
- Forest Products, Melbourne.
- Horticultural Research, Adelaide, with a field station at Merbein, Victoria.
- Irrigation Research, Griffith, New South Wales.
- Land Research, headquarters in Canberra, and field stations and laboratories at Alice Springs, Katherine and Darwin, Northern Territory, and Kununurra, Western Australia.
- Mathematical Statistics, Adelaide, with officers stationed at a number of Divisions and Sections and at the University of Melbourne.
- Mechanical Engineering, Melbourne.
- Meteorological Physics, Melbourne.
- Plant Industry, Canberra, with branch laboratories in Perth, Hobart, and Brisbane, and at Deniliquin and Armidale, New South Wales, field stations and experimental farms at Canberra and Deniliquin, and at Kojonup and Baker's Hill, Western Australia, and a tobacco research institute at Mareeba, Queensland.
- Radiophysics, Sydney, with the Australian National Radio Astronomy Observatory at Parkes, New South Wales, and a radio observatory at the Solar Observatory, Culgoora, New South Wales.
- Soil Mechanics, Melbourne, with a branch laboratory in Adelaide.
- Soils, Adelaide, with branch laboratories in Brisbane, Canberra, Perth, and Hobart, and Townsville, Queensland.
- Tribophysics, Melbourne.
- Tropical Pastures, Brisbane, with branch laboratories at Townsville and Lawes, Queensland, and field stations at Mundubbera, Samford, Townsville and Woodstock, Queensland.
- Wildlife Research, Canberra, with a branch laboratory in Perth.

Sections

- Editorial and Publications, Melbourne.
- Ore Dressing Investigations, Melbourne.
- Physical Metallurgy, Melbourne.
- Upper Atmosphere, Camden, New South Wales.
- Wheat Research Unit, Sydney.

The Organization's total budget for 1967-68 was about \$46,363,000. Nearly four-fifths of this was provided by the Commonwealth Government, while much of the remainder was provided by trust funds which have been set up by various primary producer groups. The largest of these is the Wool Research Trust Fund, but the wheat, dairy, meat, and tobacco industries also contribute substantial amounts. The funds are derived from a levy on produce matched by a Government contribution.

Mount Stromlo and Siding Spring Observatories

Mount Stromlo Observatory and Siding Spring Observatory are the two astronomical research stations of the Research School of Physical Sciences, Australian National University. The staff of the observatories are academic staff of the University's Institute of Advanced Studies. The permanent headquarters of the observatories is located at Mount Stromlo, together with the library, laboratories and offices of the scientific staff. The older telescopes are located on Mount Stromlo, the newer ones on Siding Spring Mountain. At Siding Spring there is a lodge to house the astronomers, permanently based at Mount Stromlo, who visit for short periods to make observations there.

The observatories constitute the principal centre of optical astronomical research in the southern hemisphere. Their research facilities are second only to the great observatories of the south-western United States, and because of their geographical latitude observations can be made on parts of the sky permanently inaccessible to northern astronomers. The functions of the observatories are to carry out original investigations (both observational and theoretical) in astronomy and astrophysics, and to provide post-graduate training for the future generation of Australian astronomers.

The direction of the researches conducted depends on the steadily widening interests of the staff and scholars as the subject of astronomy itself rapidly progresses. Areas of permanent interest to which the observatories have made important contributions include the evolution of stars and of stellar systems, the study of the Magellanic clouds and their globular star clusters, the chemical composition of the stars and the study of pulsating stars. The results of the work carried out at the observatories are published in the international scientific periodicals, principally in the *Monthly Notices of the Royal Astronomical Society* and the *Astrophysical Journal*.

Mount Stromlo Observatory is situated at 35° 19' 16" south latitude and 149° east longitude at an altitude of 2,560 feet. It is on the summit of a ridge of low hills in the Australian Capital Territory seven miles west of the city of Canberra. The first regular scientific work was started at this site in 1925, and the Observatory was incorporated in the Australian National University in 1957. The main instruments are 30-inch, 50-inch and 74-inch reflecting telescopes and associated spectrographs, photometers and spectral scanners.

Siding Spring Observatory was established in 1965. It is located at 31° 16' south latitude and 148° 41' east longitude at an altitude of 3,820 feet and occupies the summit of Siding Spring Mountain in the Warrumbungle Ranges, near Coonabarabran, New South Wales. This site has one of the best climates for astronomical research to be found anywhere in Australia—considerably better than that at Mount Stromlo. The instruments at present operating at Siding Spring Observatory include a 40-inch and a 24-inch reflector.

The observatories also operate the National Time Service whose headquarters are located at Mount Stromlo.

Australian Atomic Energy Commission

Establishment and functions of the Commission

In November 1952 a Commission of three members was appointed to control the Commonwealth's activities in relation to uranium and atomic energy, and in April 1953, upon the enactment of the *Atomic Energy Act 1953*, the Commission was established as a statutory authority with powers and functions as defined in the Act. Under amending legislation the number of Commissioners was increased to five in April 1958. The Commission is a corporate and autonomous body controlling its own service. It functions under the direction of the Minister for National Development.

The functions of the Commission fall under two main headings. Firstly, it is responsible for undertaking and encouraging the search for and mining of uranium and is empowered to co-operate with the appropriate authorities of the States in connection with these and related matters. Secondly, it is authorised to develop the practical uses of atomic energy by constructing and operating plant for this purpose, carrying out research, and generally fostering the advancement of atomic energy technology.

Uranium prospecting and mining

Production of uranium concentrate in Australia is now confined to the Rum Jungle Plant, Northern Territory. Since 1953, mining and treatment operations here have been conducted for the Commonwealth by a mining company. Mining of presently known reserves of uranium in this area was finished in 1963, but treatment of stock-piled ore has continued. Australia's own domestic requirements of uranium oxide to the end of the present century are expected to be greater than currently known reserves. Because of this the Commonwealth has continued exploration for uranium in the Rum Jungle area and has sought to encourage private producers to resume exploration.

Research

The Commission's Lucas Heights Research Establishment is Australia's atomic energy research centre. Its research programme is concerned with the development of nuclear power, the production and utilisation of radioisotopes, and other related fields. It is directed towards the long-term development of national resources.

The research programme over the past few years has been a technical and feasibility study of an advanced high temperature gas cooled reactor system in which the core was composed of ceramic materials—oxides of uranium, plutonium, thorium and beryllium. Carbon dioxide was considered as the coolant gas. The study has been largely concerned with fundamental research and development in the fields of reactor materials, nuclear and reactor physics, and nuclear engineering. After a detailed technical assessment of the system in 1966, the Commission concluded that it was not as attractive for base-load power stations as previously expected. The Commission has tapered off this study and largely transferred the effort to a technical and economic assessment of a natural uranium fuelled, heavy water moderated reactor. This type of reactor system is now considered to be most suitable for future installation in Australia for the economic production of nuclear power. During 1967 some twenty-six members of the Commission's technical staff were sent to Britain and Canada on long-term postings, in order to participate directly in development and construction of power reactors of this type.

The use of radioisotopes is increasing rapidly in Australia in scientific research and development, in treatment of diseases, and in agriculture and industry generally. Most of these, especially short-lived radioisotopes which cannot be imported, are being produced in the Commission's high flux research reactor HIFAR at Lucas Heights. The A.A.E.C. is also producing the majority of cobalt 60 teletherapy sources for cancer treatment in Australia, and is exporting high activity sources to New Zealand and to Asia. The Commission is promoting research into radioisotope application and is co-operating with universities, industry and governmental bodies in making available the most up-to-date techniques involving the use of radioisotopes in every field.

Large-scale hydrological investigations using radioactive tracers have been conducted by the Commission. These have included sand tracing in Botany Bay and silt tracing in Newcastle Harbour and the Hunter River in association with maritime and development authorities.

Extensive research and development work on the technical and scientific applications of gamma radiation is also being carried out. The possibilities of radiation for such purposes as industrial sterilisation, food preservation, disinfection of wheat and flour, and the control of fruit fly and other insect pests are being investigated. Scientists at Lucas Heights are also studying the biological effects of radiation and questions of health and safety.

The Research Establishment has developed facilities for the absolute standardisation of radio isotopes and has participated in international intercomparisons in the health and safety field. Work is directed to various aspects of radiation dosimetry, to radiation biology, and to aspects of the toxicology of beryllium compounds.

Lucas Heights is a centre of specialised equipment and information. In addition to the research reactor HIFAR, used for testing materials and producing radioisotopes, there is much other equipment unique in Australia. All these facilities are available to universities and other institutions under suitable conditions. In these endeavours the Atomic Energy Commission is working in close co-operation with the United Kingdom Atomic Energy Authority, under arrangements which give Australia access to results of British research on peaceful atomic energy uses. Results of research in Australia are in like manner available to Britain. Work in Australia, though constituting a self-contained programme, is co-ordinated with the British programme to avoid overlapping of research objectives and duplication of investigations. Australia also has bilateral arrangements with the United States, Canada and Japan, and has accredited a diplomatic mission to the European Atomic Energy Community (Euratom). Australia is also taking part in the promotion of the peaceful uses of atomic energy through the International Atomic Energy Agency. For the year 1966-67 the Commission placed \$112,512 worth of research contracts mainly within Australian universities on matters related to the research programme at Lucas Heights.

Considerable potential exists in Australia for possible future application of nuclear explosives for large civil engineering and mining projects. The Commission maintains a close interest in the developmental work under the United States Plowshare Program. A United States expert visited Australia in 1962, and an Australian technical mission visited the United States of America in 1963 to make a detailed examination of the use of nuclear explosives for peaceful purposes. The Commission continues to receive data and reports relating to progress in this field and has been represented at recent field tests in the United States.

The Australian Institute of Nuclear Science and Engineering comprises the Australian Atomic Energy Commission and Australian universities. The Institute's operations are financed by membership subscriptions and a Commonwealth Government grant which amounted to \$150,000 in 1966-67. The purpose of the Institute is to stimulate research and training in nuclear science and engineering within the universities and to arrange access for university research workers to the highly specialised equipment at the A.A.E.C. Research Establishment.

The Australian School of Nuclear Technology is jointly sponsored by the Commission and the University of New South Wales. Courses are being offered in nuclear technology, production and use of radioisotopes, radiological safety, health physics, and other related topics.

Scientific societies

Royal Societies

The following table contains the latest available statistical information regarding the Royal Societies in each State and in the Australian Capital Territory.

ROYAL SOCIETIES, DECEMBER 1967

| | <i>N.S.W.</i> | <i>Vic.</i> | <i>Qld</i> | <i>S.A.</i> | <i>W.A.</i> | <i>Tas.</i> | <i>Canberra</i> |
|---|---------------|-------------|------------|-------------|-------------|-------------|-----------------|
| Year of charter | 1866 | 1859 | 1884 | 1880 | 1913 | 1844 | 1930 |
| Number of members | 387 | 500 | 349 | 253 | 252 | 606 | 161 |
| Volumes of transactions issued(a) | 100 | 80 | (b)78 | 91 | 56 | 101 | .. |
| Number of books in library | 32,780 | 30,000 | 69,300 | 23,500 | 6,948 | 36,000 | .. |
| Societies on exchange list | 392 | 333 | 300 | 348 | 238 | 315 | .. |

(a) Cumulative total. (b) Volumes of proceedings.

Australian Academy of Science

The Australian Academy of Science is the national institution representing science in Australia. Constituted by Royal Charter in 1954, the Academy promotes scientific knowledge and research, maintains standards of scientific endeavour and achievement in the natural sciences in Australia, and recognises outstanding contributions to the advancement of science. The Academy represents Australian science and scientists at the national and international level, organises meetings of scientists, holds symposia, and arranges for visits of scientists from other countries to Australia.

In its functions it is comparable with the Royal Society of London and national academies of science of many other countries. Its Fellows (designated F.A.A.) are eminent in some branch of the physical or biological sciences in Australia, occupying professional positions in universities, the Commonwealth Scientific and Industrial Research Organization, other research organisations, and industry. A very few places are reserved for Fellows who have rendered conspicuous service in the cause of science. No more than six new Fellows are elected in any one year. Its present membership is about 120 Fellows.

The Academy co-ordinates Australian contributions to such co-operative ventures as the International Geophysical Year, the International Year of the Quiet Sun, and the International Biological Programme. Representation is provided at the general assemblies of the International Scientific Unions and similar bodies relating to astronomy, geophysics, geology, physics, crystallography, mathematics, biochemistry, physiology, geography, biological sciences, chemistry, Antarctic research space research, and oceanic research.

As the Australian Academy of Science is too young a body to be financially self-sufficient, the Commonwealth Government makes annual grants of general purpose funds without affecting the autonomy of the Academy. These grants, together with substantial private benefactions, enable the Academy to continue its work. Research fellowships provided by industry are administered. The Academy is managed by an elected council comprising a president, treasurer, two secretaries and eight ordinary members who are drawn equally from the physical sciences and biological sciences. Chief administrative officer is the Executive Secretary, who is not a Fellow. Its conference centre in Canberra was opened in 1959.

Australian and New Zealand Association for the Advancement of Science

This Association was founded in 1887. Its objects are 'to advance the knowledge and to promote a spirit of co-operation between scientific workers and scholars and those in sympathy with science

and scholarship generally, especially in Australia and New Zealand'. The 41st ANZAAS Congress was held in Adelaide on 18 to 22 August 1967, and the 42nd Congress will be held in Port Moresby, 12 to 16 August 1970.

Divisions of ANZAAS have recently been formed in Western Australia and New South Wales. The New South Wales Division held a Symposium in Sydney on 14–15 June 1968 on 'The Information Explosion—Data Storage and Retrieval in the Computer Age', and a Regional Congress at Armidale, 16–19 August 1968 on 'The Planning and Management of Australia's Natural Resources'.

The ANZAAS Central Office is in Sydney.

Other scientific societies

The Linnean Society of New South Wales, with headquarters in Sydney, was founded in 1874 for 'the cultivation and study of the science of natural history in all its branches'. Sir William Macleay, who died in 1891, during his lifetime and by his will endowed the Society to the amount of \$134,000, which has been increased by investment to approximately \$260,000. The objects of the Society are achieved by holding meetings, by publishing proceedings, by maintaining a library, and by offering research fellowships. The Society publishes annual volumes of the proceedings, issued in three parts, in which are printed papers read at the general meetings. Ninety-two volumes of such proceedings have been issued and the Society exchanges with about 300 kindred institutions and universities throughout the world. The library has some 19,000 volumes. The Society offers annually to graduates of the University of Sydney, who are members of the Society and resident in New South Wales, a research fellowship (Linnean Macleay Fellowship) in various branches of natural history. The membership at the end of 1967 was 311.

The British Astronomical Society has a branch in Sydney, and in each of the States there is a branch of the Australian Medical Association.

There are more than 200 other learned societies devoted to the study of particular sciences. Some of these, including the Royal Australian Chemical Institute and the Institution of Engineers, Australia, are qualifying bodies, admission to which is by qualification only. Others, such as the Institute of Food Technologists, are open to any interested person. Some societies, such as the Australian Biochemical Society, have annual symposia of a very high standard. A great many of these bodies publish appropriate journals.

