

CHAPTER 15

COUNTRY



The Swan River meandering towards Perth and the Indian Ocean. Photograph by Kevin Diletti, 1984.

DISTINCTIVE COUNTRY LANDSCAPES have developed in response to local demands for domestic consumption, and overseas demands for Australian foodstuffs and raw materials. Wool was the first export commodity to change the appearance of vast tracts of the country. From the late nineteenth century wheat also began to have an impact. Technological developments such as the stump-jump plough and the bulldozer encouraged farmers and mining companies to clear extensive areas almost overnight. This chapter explains the development of country landscapes from the irrigation schemes along the Murray and the Cornish mining landscapes of South Australia to the rise and decline of coastal dairying districts near the cities.

Country

SEEN FROM THE AIR the Australian rural landscape is an affair of sharp rectangles separated by occasional patches of uncleared land occupying the steep ranges. This rectangularity, in sharp contrast to the countryside of the old world, marks almost all the new world countries and is a sign of their development in the rational age of industrial civilisation. Only the main roads, as they thread their way irregularly over the country, show how the early tracks chose the easiest routes through an often difficult terrain. As Australia was settled piecemeal – the earliest settlers choosing the choicest spots – it does not share the uniform grid pattern seen on the prairies of the United States where surveyors preceded the settlers. Nevertheless, rectangularity prevails, from the moister coastlands deep into the pastoral semiarid country where

the fences mark off paddocks of many square miles. Beyond, especially in the tropical north, lies the unmarked open range.

The creation of the rural landscape

Land was a commodity to be rationally measured, as Australia was born into the capitalist world system during the nineteenth century, with governments' land policies and surveyors acting as midwife. The world metropolis in northwestern Europe was longing for raw materials and foodstuffs, and its supply lines grew even longer as transport costs fell with the introduction of larger and faster sailing ships, steamships, and the opening of the Suez and Panama canals.

Australian rural society developed to supply that market, as individual settlements formed to provide the products in overseas demand, from the vast pastoral stations centred on their woolsheds to the small dairy farms hacked out of the forest on Queensland's Atherton Tableland, the coast of New South Wales, Gippsland in Victoria and the southwest of Western Australia. As the continent was penetrated, and as the economy became more diverse, distinctive rural landscapes were associated with each new export. As the population grew, some rural industries supplied local needs. This was particularly true of dairying and sugar growing, which have largely depended on subsidisation by

Right. Mills Plains, Tasmania by John Glover, 1837. The early settlers found this grassy forest country to be ideal for sheep and cattle grazing. The influence of the Italian painter Claude on Glover is evident; the tree on the right is a typical Claudean tree rather than an attempt to portray a gumtree accurately.

TASMANIAN MUSEUM AND ART GALLERY

Below. Table Cape, near Wynyard, Tasmania. Photograph by Reg Morrison.

WELDON TRANNIES



the Australian consumer for their survival as export industries.

Wool was the first export commodity to shape the rural landscape, exceeding the export revenues from the whaling and sealing industries in 1834. As British wool manufacturing mechanised, so the demand for wool grew. By 1850 Australia was supplying over half of Britain's wool, growing it in areas as varied as Wide Bay in the north and the basalt plains of Western Victoria, 'Australia Felix'.

Wheat was more costly to transport, and only after the 1870s was Australia a significant supplier, firstly from South Australia and Victoria, then New South Wales, and later Western Australia. There was little chance of selling cattle products other than liver, bones, horns, oil and tallow, until the introduction, in the 1880s, of refrigeration on board ship, an Australian invention, which opened up overseas meat markets. Refrigeration made it more feasible to drive cattle from the northern tropical pastures to coastal ports and abattoirs, and enabled large overseas sales of butter, which stimulated the spread of small dairy farms and factories. It also created a British market for Tasmanian fruit. Technology, from the stump-jump plough (1870s) to power shearing (1880s) and the cream separator (1880s), has been the key to Australian rural development, helping solve the problems of labour, alien environments and overseas demands for quality.



Top. Early homesteads were built of split slabs and bark. This slab cottage has small window panes — then the only kind available. The chimney above the stone fireplace would originally have been made of bark sheets, and the roof of bark or wooden shingles. Photograph by D.N. Jeans.

Above. The typical colonial fence, made of split rails morticed into slab posts, replaced the English hedge, for which no suitable plant existed in Australia. Smooth wire became available from the 1850s and barbed wire was used from the 1870s on, but the two or three-rail timber fence was still commonly built in wooded districts. Photograph by D. N. Jeans.

Above left. Wealthy landowners built grander homes as they became settled. Here, at Belle Vue near Braidwood, NSW, the early pisé homestead in Georgian style, to the right, became kitchen, laundry and storeroom for the larger house built in the prosperous 1870s, in the Gothic style then fashionable. Photograph by D.N. Jeans.

Left. Most of the population of Australia was of British origin in the nineteenth century, but Germans were a significant early group. Many settled in the Barossa valley in South Australia, using their skills of vine growing and winemaking to create a significant agricultural region around such villages as Klemzig, Friedrickseswald, New Mecklenburg and Gnadenfrei (Marananga).

Regional characteristics

As opportunities expanded, regional specialisations developed, in part dictated by the natural environment, notably rainfall. There are still large desert areas of the continent where even the sparsest grazing industry cannot survive, but which now attract oil exploration. But land use is also determined by proximity to centres of consumption and export, especially the capital cities. Those industries able to pay the highest land rents lie closest to the cities. Vegetable and fruit growing, and dairying for liquid milk production occupy the most advantageous locations, such as the Swan valley in Western Australia and the central coast of New South Wales, a densely populated landscape of small holdings, lately encroached upon by urbanites.



Right above. An abandoned selector's cottage near Braidwood, from the late nineteenth century, constructed of sawn timber and with a characteristically asymmetrical plan and facade. Tenancy, and the free selection acts of the 1860s, spread such small farms over the countryside. Photograph by D.N. Jeans.

Right below. One reason for the abandonment of farms in the more humid coastal districts in this century has been the shift of the wheat industry inland. Flour mills were also left derelict by this shift. This massive steam-powered mill near Braidwood, NSW, is now used as a woolshed. Photograph by D. N. Jeans.



Below. Lawn Hills stockyard, Queensland. In remote pastoral districts methods have changed little, and crude structures such as this are the tools of the pastoralist. Photograph by Grenville Turner, 1985.

Similar landscapes are found inland in the irrigation districts along the Murray, where vine-growing is important, as it is in the Barossa valley, the south-east of South Australia and the Hunter valley of New South Wales. In many places the dairying industry has been forced to retreat by loss of markets overseas for butter and cheese; land is being taken up for hobby and retirement farms and communes, for beef cattle and specialist crops such as avocados, or left to return to bush.

Inland from such regions are the large grazing holdings (districts) carrying fat cattle and sheep for the high-quality meat market, and stud breeding stock for pastoralists further out. These holdings were the first areas to be taken up, and many homesteads remain from the years before 1850. Wealthy pastoralists built fine mansions in the prosperous period between 1860 and 1890. Most of the larger holdings have now been subdivided, but a gentry tradition sometimes survives in local society.

Further out is the more extensive wheat-sheep belt, the outer margin of which is fixed by low rainfall, though breeding of new varieties pushes this frontier onward. There have also been occasional extensions into drier country in wet periods. The rust fungus, and competition from more profitable products such as maize and dairy goods, have driven wheat out of the coastal districts. In most states, wheat farms are of several hundred hectares, many with modern homesteads, a product of past periods of good wheat prices. Clearing land for wheat has been a recent phenomenon in Western Australia and northern New South Wales.

Beyond the wheat-sheep belt, in semiarid country, extensive pastoralism prevails, dependent for water on tanks, artesian bores and wells powered by steel wind-pumps. The land in the south is mainly suitable for sheep farming, while the climate of the hotter north, with its summer wet seasons, makes it a suitable area for cattle raising. The largest acreages are in the remote north of Queensland, the Northern Territory and the Kimberleys in Western Australia where one head of stock is run to several hectares. Most state governments have introduced policies to reduce the size of holdings in the better country. The north poses special problems of mobility and pests in the wet season, and of great distance to markets.

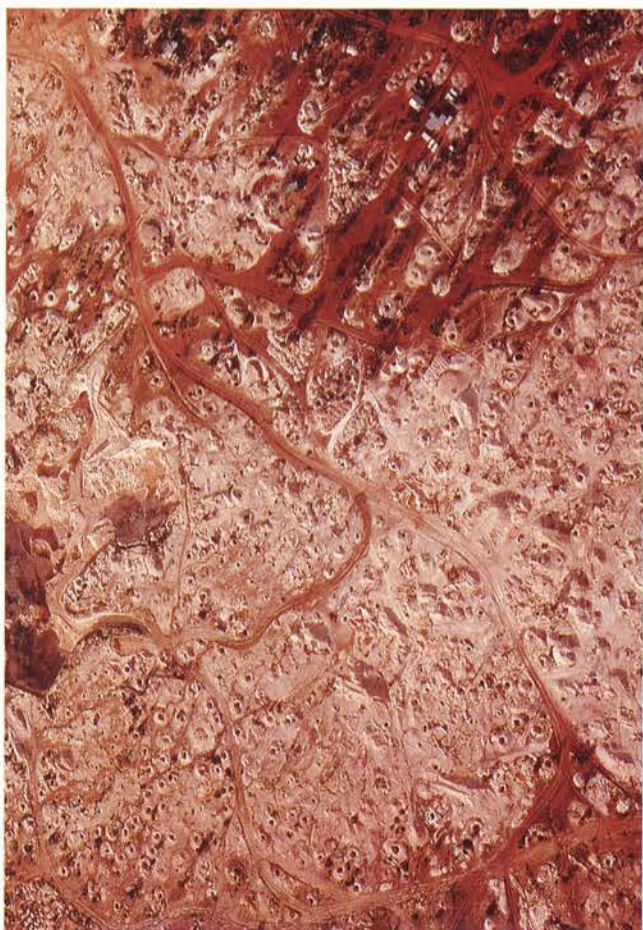
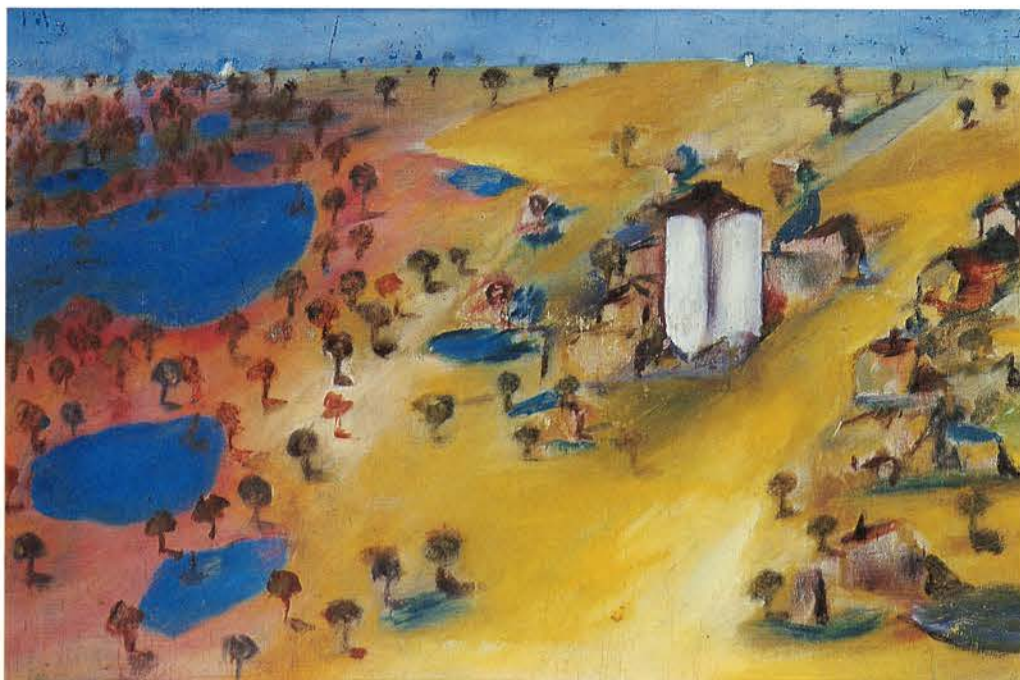


Rural towns

Many of the largest country towns were founded in the 1830s and 1840s, such as Bathurst and Toowoomba. Others date from the goldmining days, such as Ballarat. These are the most complex country town landscapes, often retaining some mid-nineteenth-century housing and government premises such as courthouses, the grand buildings of the late nineteenth century, some art deco buildings, notably cinemas of the interwar period, and post-1950s commercial buildings. The motor car has enabled these centres to capture the trade of smaller towns.

Some large towns are found in the wheat-sheep country, but most are smaller centres struggling to survive, particularly as the fortunes of the wheat industry fluctuate. The railways mostly created these towns, and tall concrete silos dominate their skylines, while late-nineteenth-century buildings line the main streets. Agricultural machinery dealers are prominent among the local businesses. Local society consists of business people, workers, many of whom are employed by the state, and a transient population of school teachers and other professionals. There may be an Aboriginal reserve nearby, poorly serviced, though government policy in some states is to rehouse Aborigines in the towns.

Apart from ports on the coast such as Cooktown (Qld), Darwin (NT) and Carnarvon (WA), the only considerable settlements in the north are mining centres such as Mt Isa (Qld), Katherine (NT) and the recent Pilbara settlements of Western Australia. Early mining took place in areas already settled, but before long the prospectors were out ahead even of the cattlemen, seeking gold, copper, silver, lead and zinc, and more recently bauxite, iron ore, oil and uranium. Mining has taken settlement into the most remote parts of the continent, but has left many ghost towns behind, such as Silverton, Milparinka, and Coolgardie. Miners have cleared the timber for miles around to provide fuel; their ambitions now come into conflict with Aboriginal claims for land rights, because it is in these remote districts that Aboriginal society has best survived. Modern mining towns insulate themselves against the harsh climate using modern technology, such as air-conditioning, and house design appropriate to tropical conditions.



Left. Opal mining remains the last preserve of the individual digger in Australia. The landscape of Lightning Ridge, NSW, is pockmarked by small mines controlled by government licensing. But this small-scale industry is beginning to be mechanised, with bulldozers being used to expose the opal veins.

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Top. Wimmera from Mt. Arapiles by Sidney Nolan (1943). Prominent in the wheat-belt landscape are the concrete wheat silos, served by railways, which were introduced with bulk handling in the 1930s and 1940s. Western Australia was the pioneer, but the Victorian Wimmera and the New South Wales Riverina soon followed. NATIONAL GALLERY OF VICTORIA

Above. In areas where small farms predominate, the towns are larger and more substantial, with verandahs running the length of their main streets. Lockhart, in the wheat district of New South Wales, has architecture typical of a country town that grew up when the railway arrived in the 1890s. Photograph by Steven Dunbar, 1985.

Left. Municipal government flourished with the development of a substantial merchant middle class in country towns in the late nineteenth century. Many towns built fine town halls to mark their progress, and introduced gas lighting, sewerage and water works, hospitals and schools of the arts. This fanciful town hall at Glen Innes, NSW, is typical of the exuberant architecture of the long boom from 1860 to 1890. Photograph by D. N. Jeans.



Above. *Maria* by Russell Drysdale (1950). The remote outback town consists of a few buildings with verandahs, at least one of which is a pub, scattered along a dusty main street or across a largely unoccupied grid of surveyed streets.

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Europeans and the Australian rural landscape

The incongruity of European presence in the harsh outback has been a theme of the paintings of, among many others, Sidney Nolan, but the outback itself is now attracting tourists, for its strangeness, beauty and sense of space and freedom. Painters and writers have created an ethos of the outback, described in Russel Ward's *The Australian Legend* (1958), in which the country 'back of Bourke' has become a symbol of the Australian identity. If the Australian home displays a print or a painting, it may well be a Hans Heysen landscape. City dwellers can adopt a rural image by buying R. M. Williams's country clothing and footwear. While the country struggles for its economic survival in the 1980s, some city-dwellers still claim the country image as their national heritage. The desire to escape from the city is affecting the rural landscape in the form of tourism, as at Ayers Rock, and with the proliferation of four-wheel-drive vehicles. Hobby farms, until recently given impetus by taxation advantages, have invaded many of the older rural areas.

This rural heritage is of increasing concern to the conservation movement, which resists further encroachment on the natural landscape. The Franklin River in Tasmania has been saved from damming, national parks proliferate at various rates in all states, with the Queensland government notably lagging, and there is frequent conflict over further forest clearance, especially in Tasmania. The regeneration of rainforest in such areas as the Big Scrub of northern New South Wales is a sign that environmental damage can sometimes be overcome. Forestry supports many small communities, but since the 1950s a number of forest areas have been designated as national parks. Forest workers and conservationists are now engaged in bitter disputes in a number of states.

Below. The spreading network of railways from the 1850s brought fast, cheap travel to the interior, and revolutionised outback life, supplying luxuries such as window glass and corrugated iron tanks for rainwater collection. The 'flash' Ghan, with sleepers and dining car, and the 'dirty' Ghan, without such amenities, ran from Port Augusta to Alice Springs from the 1930s on. The camel train, usually led by Afghans, was relegated to serving stations remote from the railhead. Photograph by Douglass Baglin, 1959.

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Meanwhile, government agencies set about solving problems of environmental damage such as soil erosion, and the salinisation that threatens the whole Murray valley as well as much of the Western Australian wheatlands. Australia's rural areas were settled when a blind belief in machine technology was common, and when ecology was an unknown science: the disastrous results have been noticed since the great retreat to Goyder's Line in South Australia in the 1880s and in the destruction of the fodder base in western New South Wales between 1895 and 1902. The full Australia-wide effects are only now becoming apparent.

The future of the Australian rural landscape is difficult to predict. International markets are uncertain, depending on such factors as the policies of the European Economic Community, the rising grain production of Asia and the possibility that the Soviet Union will improve its rural productivity under new leadership. The variable effects of environmental degradation, and the new ideology of environmental protection, must also be taken into account. Almost everywhere in the world, agricultural production is retreating from marginal lands as technology raises the output of a better, safer country, and there is an industrial shift towards agribusiness, that is, larger, better-capitalised holdings, that replace the family farm. Australia retains a legacy of settlement policies from the nineteenth century which may no longer be appropriate. Farmers react with increasing anger to rural crises, but there is no sign that rural Australia has enough political influence to protect itself; economically its future remains tied to international trade. Perhaps only the historical conservation movement, led by the National Trust of Australia, will be able to show us much of the present-day rural landscape at Australia's next centennial.



Above. The removal of timber, which raises the water table, has brought to the surface old cyclic salt lying further down in the soil, which destroys cropland and leads to widespread soil erosion as seen here in Western Australia. The irrigation areas also suffer severely from salinisation. Photograph by Kevin Diletti, 1982.

Left. Sand mining at Smiths Lake, NSW. The large-scale working of Australian sand dunes to extract minerals such as rutile and zircon is a threat to coastal dune environments and is the subject of much controversy. Companies are now obliged to carry out restoration of vegetation. Photograph by L. & B. Hemmings.

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Below. Sheep pasture at Pyalong in Victoria. Photograph by Ray Joyce.
WELDON TRANNIES



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CONVENTION ADOPTED IN QUOTATIONS

Throughout this series quotations have been transcribed literally from the original documents. The use of 'sic' to refer to errors has generally been avoided.

CONVERSION TABLE

| IMPERIAL TO METRIC | | METRIC TO IMPERIAL | |
|--------------------|--------------|--------------------|------------------|
| inch | = 2.54 cm | centimetre | = 0.39 in |
| foot | = 0.30 m | metre | = 3.28 ft |
| yard | = 0.91 m | kilometre | = 0.62 mile |
| mile | = 1.60 km | | |
| ounce | = 28.3 g | gram | = 0.04 oz |
| pound | = 454 g | kilogram | = 2.20 lbs |
| hundredweight | = 50.8 kg | tonne | = 0.98 ton |
| ton | = 1.02 tonne | | |
| pint | = 568 ml | millilitre | = 0.35 fl oz |
| quart | = 1.14 l | litre | = 1.76 pint |
| gallon | = 4.55 l | megalitre | = 0.81 acre feet |
| acre | = 0.41 ha | cubic metre | = 27.50 bushels |
| | | hectare | = 2.47 ac |

NOTES ON ILLUSTRATIONS

1 ENVIRONMENT

Page 30 Drawings of Kartan tools, R.J. Lampert.

Page 32 Squatter's map, Mitchell Library.

3 EUROPEAN DISCOVERY AND EXPLORATION

Page 52 Sketch by Thomas Mitchell, Menzies Library, ANU.

Page 58 Map of Australia published in *The friend of Australia, or a plan for exploring the interior and for carrying a survey of the whole continent of Australia*, by a retired officer of the Hon. East India Company's Service (T.J. Maslen), London 1830, National Library. Emmanuel Bowen, *A complete map of the southern continent*, London 1744; W.S. Jevons, *Waugh's Australian Almanac*, 1859.

4 RURAL LANDSCAPES

Page 71 Photograph of wheat harvesting from Album 259, *Queensland farming and pastoral industry*, 4, photograph 10, National Library.

Page 80 Sketch of a hufendorf settlement in *The Barossa Survey*, Vol. 1, G. Young *et al*, 1977, 67.

5 URBAN LANDSCAPES

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9 RELIGION AND EDUCATION

Page 182 Rev John Flynn, photograph published in *What is the AIM?*, Australian Inland Mission, Sydney 1932, 4.

Page 185 The first church in Australia, Mitchell Library.

10 CONVICTS, BUSHRANGERS AND LARRIKINS

Page 208 Tom Roberts, *Bailed up*, 1895, oil on canvas 134.6 x 182.9 cm, Art Gallery of New South Wales.

Page 210 Sketch of Alexander Pearce, 1824, by an unknown artist.

Page 213 Undated photograph of Ben Hall by an unknown photographer.

Page 214 Photograph of Ned Kelly, 1880, by an unknown photographer.

Page 215 Undated photographs of Superintendent Hare and Kelly's house, both by an unknown photographer.

11 AUSTRALIANS AND WAR

Page 219 Joseph Lycett, *Drawings of the natives and scenery of Tasmania and New South Wales*, c1820, National Library.

Page 234 William Dargie, *Stretcher bearers in the Owen Stanleys*, 1947, oil on canvas 143.2 x 234.4 cm, Australian War Memorial.

12 THE GREAT DEPRESSION

Page 242 Poster, La Trobe Library.

15 COUNTRY

Page 275 Barossa Valley, Australian Picture Library.

Page 277 Sidney Nolan, *Wimmera from Mount Arapiles*, 1943, ripolin enamel on board, 61 x 91.5 cm, National Gallery of Victoria.

Page 278 Russell Drysdale, *Maria*, 1950, oil on canvas 99 x 101 cm, ICI.

ENDNOTES

I PLACE

1 ENVIRONMENT

4-5 Palaeogeography J.E. Hobbs

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10-11 Soils J.E. Hobbs

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17 Winds and seasonal rainfall J.E. Hobbs

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20-2 Droughts and floods J.E. Hobbs

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3 EUROPEAN DISCOVERY AND EXPLORATION

46 Introduction T.M. Perry
TEXT: Entries on individual explorers in *Australian dictionary of biography*, Melbourne 1966-83; E.H.J. Feeken and E.F. Feeken, *The discovery and exploration of Australia*, Melbourne 1970; E. Kunz and E. Kunz, *A continent takes shape*, Sydney 1971; K.G. McIntyre, *The secret discovery of Australia*, Sydney 1982; T.M. Perry, *The discovery of Australia: the charts and maps of the navigators and explorers*, Melbourne 1982; A. Sharp, *The discovery of Australia*, Oxford 1963; R.A. Skelton, *Explorers' maps*, London 1958; O.H.K. Spate, *Let me enjoy: essays, partly geographical*, Canberra 1965; G.A. Wood, *The discovery of Australia*, London 1922.

47 Maritime discovery and exploration T.M. Perry
MAPS AND TEXT: Feeken and Feeken, *Discovery and exploration*; McIntyre, *Secret discovery*; Perry, *Discovery of Australia*; Skelton, *Explorers' maps*; Wood, *Discovery of Australia*.

48-9 City sites T.M. Perry
MAPS: 'Chart of the three harbours of Botany Bay, Port Jackson and Broken Bay, showing the cultivated grounds in and about the settlements', in D. Collins, *An account of the English colony in New South Wales*, 1, London 1798; 'Port Phillip surveyed by C. Grimes, Actg Surveyor G.I. N. So. Wales, 1803', in J.J. Shillinglaw, *Historical records of Port Phillip*, Melbourne 1879; 'Plan of the River Brisbane by John Oxley, Surveyor General of New South Wales', in B. Field (ed), *Geographical memoirs on New South Wales*, London 1825; 'Chart of Terra Australis by M. Flinders 1798-9. South Coast, sheet VI', in the atlas published with M. Flinders, *A voyage to Terra Australis*, London 1814; 'Chart of the Swan River from a survey by Capn. James Stirling, R.N. 1827', London 1829.

50-1 Land exploration to 1860 T.M. Perry
MAPS AND TEXT: Feeken and Feeken, *Discovery and exploration*; Kunz and Kunz, *Continent takes shape*; Perry, *Discovery of Australia*; Sharp, *Discovery of Australia*; Skelton, *Explorers' maps*; Wood, *Discovery of Australia*.

52 Oxley and Eyre T.M. Perry
MAPS: E.J. Eyre, *Journals of expeditions of discovery into central Australia and overland from Adelaide to King George's Sound*, London 1845; J. Oxley, 'A reduced sketch of two expeditions', inset on 'A chart of part of the interior of New South Wales by John Oxley, Surveyor General 1818', in J. Oxley, *Journals of two expeditions into the interior of New South Wales*, London 1820.

53 Continental crossings
MAPS AND TEXT: Feeken and Feeken, *Discovery and exploration*; Kunz and Kunz, *Continent takes shape*; Perry, *Discovery of Australia*; Sharp, *Discovery of Australia*; Skelton, *Explorers' maps*; Wood, *Discovery of Australia*.

54-5 Leichhardt and Sturt T.M. Perry
TEXT: Perry, *Discovery and exploration*.

56 Land exploration from 1860 T.M. Perry
MAPS AND TEXT: Feeken and Feeken, *Discovery and exploration*; Kunz and Kunz, *Continent takes shape*; Perry, *Discovery of Australia*; Sharp, *Discovery of Australia*; Skelton, *Explorers' maps*; Wood, *Discovery of Australia*.

57 South to north crossings T.M. Perry
MAP: 'Map of the eastern part of Australia showing the route of Messrs Burke and Wills from Melbourne to the Gulf of Carpentaria', in A. Jackson, *Robert O'Hara Burke and the Australian exploring expedition of 1860*, London 1862. TEXT: Perry, *Discovery of Australia*.

58 High hopes and stark realities T.M. Perry
MAPS: E. Bowen, 'A complete map of the southern continent', in J. Harris, *Navigatum atque itinerantium bibliotheca or a complete collection of voyages and travels*, London 1744; W.S. Jevons, 'Some data concerning the climate of Australia and New Zealand', in *Waugh's Australian almanac for the year 1859*, Sydney 1859, 97; T.J. Maslen, *The friend of Australia, or, a plan for exploring the interior . . . by a retired officer of the Hon. East India Company's service*, London 1830. TEXT: Perry, *Discovery of Australia*.

4 RURAL LANDSCAPES

60-1 Land tenure J. McQuilton
MAPS AND GRAPHS: Colonial, state and commonwealth year books; R.L. Heathcote, 'The evolution of Australian pastoral land tenures: an example of challenge and response in resource development', in R.G. Ironside et al (eds), *Frontier settlement*, Edmonton 1974, 226-46. TEXT: Commonwealth year books; Heathcote, 'Australian pastoral land tenures'; J.M. Powell, *Environmental management in Australia 1788-1914*, Melbourne 1976; J.M. Powell and M. Williams (eds), *Australian space, Australian time: geographical perspectives*, Melbourne 1975.

62-3 Pastoral occupation R.L. Heathcote
See notes for 'Pastoral landuse'.

64 Pastoral landuse R.L. Heathcote and J. McQuilton
MAPS AND TEXT: G. Alexander and O.B. Williams, *The pastoral industries of Australia*, Sydney 1973; A. Barnard (ed), *The simple fleece*, Melbourne 1962; G.N. Harrington et al (eds), *Management of Australia's rangelands*, Melbourne 1984; R.L. Heathcote, 'Pastoral Australia', in D.N. Jeans (ed), *Australia: a geography*, Sydney 1977, 252-88; T.L. McKnight, *The long paddock: Australia's travelling stock routes*, Armidale 1977; S.H. Roberts, *The squatting age in Australia 1835-1847*, Melbourne 1975 (1935).

65-8 Cattle and sheep R.L. Heathcote
MAPS: Colonial and state statistical registers were used to gather information which was then adjusted for the 1951 statistical division boundaries of Australia. TEXT: Harrington et al (eds), *Australia's rangelands*; Heathcote, 'Australian pastoral land tenure'; Heathcote, 'Pastoral Australia'.

69 Artesian water J.C.R. Camm
MAPS, GRAPHS AND TEXT: Australian Water Resources Council, *Groundwater resources of Australia*, Canberra 1975; Department of the Co-ordinator General of Public Works, *Australian water supplies in Queensland 1954*, Brisbane 1955; Department of Resources and Energy, *Water 2000: a perspective on Australia's water resources to the year 2000*, Canberra 1983; Queensland year books.

70-1 Wheat M. McCaskill
MAPS AND GRAPHS: Colonial and state statistical registers; commonwealth year books, E. Dunsdorfs and L. Dunsdorfs, *Historical statistics of the Australian wheat growing industry*, Melbourne 1956. TEXT: G.L. Buxton, *The Riverina 1861-1891*, Melbourne 1967; A.R. Callaghan and A.J. Millington, *The wheat industry in Australia*, Sydney 1956; E. Dunsdorfs, *The Australian wheat growing industry 1788-1948*, Melbourne 1956; D.N. Jeans, *An historical geography of New South Wales to 1901*, Sydney 1972; D.W. Meinig, *On the margins of the good earth: the South Australian wheat frontier 1869-1884*, Chicago 1962; M. Williams, *The making of the South Australian landscape*, London 1974.

72-3 Barley and Fruit M. McCaskill
MAPS, GRAPHS AND TEXT: Colonial and state statistical registers; colonial, state and commonwealth year books; D.B. Williams (ed), *Agriculture in the Australian economy*, Sydney 1967.

74-5 Irrigation J.C.R. Camm
MAPS, GRAPHS AND TEXT: Commonwealth year books; Division of National Mapping, 'Australia. Dams and storages', second edition, NNP 81/053; Division of National Mapping, 'Australia. Pastures and crops irrigated 1980/1981', NNP 82/096.A3; International Commission on large dams, Australian national committee, *Register of large dams, dams diary*, 1976, 1980; New South Wales Water Resources Commission annual reports; Queensland Water Resources Commission annual reports.

76 Sugar J.C.R. Camm
MAPS, GRAPHS AND TEXT: Queensland and New South Wales statistical registers.

77 Dairying J.C.R. Camm
MAPS AND GRAPHS: State statistical registers. TEXT:

N.T. Drane and H.R. Edwards (eds), *The Australian dairy industry*, Melbourne 1961; Williams, *Agriculture*.

78 Progress and blunders M. McCaskill
MAP, TEXT AND TABLE: G. Blainey, *A land half won*, Melbourne 1982; B. Fraser (ed), *The Macquarie book of events*, Sydney 1983, 152-68.

79 'The grey tide' J. McQuilton
MAPS: E.C. Rolls, *They all ran wild*, Sydney 1969; Western Australia *Parliamentary papers*, 1891-1910. TEXT: Blainey, *Land half won*; K. Peterson, 'The 1888 New South Wales royal commission into schemes for the extermination of rabbits', *Australia 1888 bulletin* 5, 1980, 60-6; Rolls, *They all ran wild*.

80-1 German settlement, South Australia G. Young
MAP AND DIAGRAMS: G. Young et al, *Barossa survey*, Adelaide 1977; G. Young et al, *Hahndorf*, Adelaide 1981; G. Young et al, *Lobethal, valley of praise*, Adelaide 1983. TEXT: A. Lodewyckx, *Die Deutschen in Australien*, Stuttgart 1932; Williams, *South Australian landscape*; E.M. Yelland (ed), *Colonists, copper and corn*, Melbourne 1970; Young, *Barossa survey*; G. Young, 'Early German settlements in South Australia', *Australian historical geography* 2, 1981, 45-69; Young, *Hahndorf*; Young, *Lobethal*.

82 Selection B. Gammage
MAP AND TEXT: Drawn from research currently being undertaken for a history of the Narrandera shire.

83 Closer settlement J. McQuilton and J.C.R. Camm
MAPS: Colonial, state and commonwealth year books. TEXT: D.N. Jeans, 'The impress of central authority upon the landscape: southeastern Australia 1788-1850', in Powell and Williams, *Australian space*, 1-17; Powell, *Environmental management*; M. Williams, 'More, and smaller is better: Australian rural settlement 1788-1914', in Powell and Williams (eds), *Australian space*, 61-103.

84 Soldier settlement M. McCaskill and J. McQuilton
MAP: Lands Department, Annual reports in *Parliamentary papers* for each state; state and commonwealth year books; statistical registers for each state. TEXT: J.M. Powell, 'The debt of honour: "soldier settlement" in the dominions', *Journal of Australian studies* 8, 1981, 64-87; J.M. Powell, 'The mapping of "soldier settlement": a note for Victoria', *Journal of Australian studies* 3, 1978, 44-51.

85 Closer settlement, South Australia M. McCaskill
MAP AND TEXT: Department of Lands and Survey, Annual report 1926-27, in *South Australia Parliamentary papers*, 1, 1927; Department of Lands and Survey, annual report 1953-54, in *South Australia Parliamentary papers* 2, 1954; Williams, *South Australian landscape*.

86-7 Building materials R.L. Heathcote
MAPS: Commonwealth censuses. TEXT: R. Boyd, *Australia's home*, Melbourne 1952; colonial and commonwealth censuses; J.M. Freeland, *Architecture in Australia*, Melbourne 1968; D.N. Jeans and P. Spearritt, *The open air museum*, Sydney 1980; A.J. Rose, 'Some boundaries and building materials in south-eastern Australia', in M. McCaskill (ed), *Land and livelihood: geographical essays in honour of George Jobberns*, Christchurch 1962.

88 Rural dwellings R.L. Heathcote and R. Singer
DRAWINGS: Mike Gorman.

5 URBAN LANDSCAPES

90 Beginnings P. Spearritt
TEXT: J. Bird, *Seaport gateways of Australia*, Oxford 1968; G.J.R. Linge, *Industrial awakening*, Canberra 1979.

91 Sydney P. Spearritt
TEXT: M.F. Poulsen and P. Spearritt, *Sydney: a social and political atlas*, Sydney 1981; P. Spearritt, *Sydney since the twenties*, Sydney 1978.

92 Hobart P. Spearritt
TEXT: R.J. Solomon, *Urbanization: the evolution of an Australian capital*, Sydney 1976.

93 Perth P. Spearritt
TEXT: C.T. Stannage, *The people of Perth*, Perth 1979; G. Stephenson and J.A. Hepburn, *Plan for the metropolitan region, Perth and Fremantle*, Perth 1955.

94-7 Adelaide, Melbourne, Brisbane, Darwin

P. Spearritt

TEXT: H. Stretton, *Ideas for Australian cities*, Adelaide 1975; G. Davison, *The rise and fall of marvellous Melbourne*, Melbourne 1978; P. Harrison, 'Major urban areas', *Atlas of Australian resources*, third series, Canberra 1981.

98 Hobart's changing centre R.J. Solomon and J.C.R. Camm

MAPS AND TEXT: Solomon, *Urbanization, the evolution of an Australian capital*, 160, 214.

99 Gentrification B.A. Badcock

MAPS AND TEXT: B.A. Badcock and D.U. Ulrich Cloher, 'Neighbourhood change in inner Adelaide, 1966-76', *Urban studies* 18/1, 1981, 41-55; H. Kendig, *New life for old suburbs*, Sydney 1979.

100-1 Canberra, the nation's capital T.G. Birtles and P. Harrison

MAPS AND TEXT: National Capital Development Commission, *Tomorrow's Canberra: planning for growth and change*, Canberra 1970; L. Wigmore, *The long view: a history of Canberra, Australia's national capital*, Melbourne 1963.

102-3 Urban growth I.J.S. Bowie

MAPS, GRAPHS AND TEXT: Colonial and commonwealth censuses; P. Spearritt, 'Melbourne and Sydney at the census' in J. Davison (ed), *The Sydney-Melbourne book*, Sydney 1986, includes a discussion of defining urban boundaries over time and the effect that this has on population estimates.

104-7 Non-metropolitan growth G. Aplin

MAPS: Colonial censuses, 1861, 1891; commonwealth censuses, 1911, 1933, 1947, 1966, 1981.

108-9 Urban water supply G. Aplin

MAPS AND TEXT: J. Parr, 'Perth water supply', *Journal of the Institute of Engineers, Australia* 8, 1927, 363-407; Perth Metropolitan Water Supply, Sewerage and Drainage Department annual reports in *Western Australia Parliamentary papers*; Perth Metropolitan Water Supply, Sewerage and Drainage Department, *Commemorative volume*, 1925.

110 Sewerage services G. Aplin

MAPS AND TEXT: W.V. Aird, *The water supply, sewerage and drainage of Sydney*, Sydney 1961; 'The sewerage system of Sydney' *Sydney Water Board journal* 1/2, 1951, 33-42; Sydney Metropolitan Water, Sewerage and Drainage Board annual reports in *New South Wales Parliamentary papers*; L.L. Holzen (ed), *Victorian municipal directory, state guide and water supply record for 1979*, Melbourne 1979; Victorian year books, especially 1980-84.

111 Melbourne's railways G. Aplin

MAP AND TEXT: J.S. Duncan (ed), *Atlas of Victoria*, Melbourne 1982, 146; Davison, *Rise and fall of marvellous Melbourne*, 156; Victorian Year book, 1961, 682-5; Victorian year books.

112-13 Tramways G. Aplin

MAPS AND TEXT: D.R. Keenan, *Tramways of Sydney*, Sydney 1979.

114 Parks G. Aplin

MAPS AND TEXT: *UBD Adelaide street directory*, Adelaide 1985.

6 MINING, MANUFACTURING AND TRANSPORT

116-17 Major mineral discoveries J.C.R. Camm

MAP AND TEXT: G. Blainey, 'A theory of mineral discovery: Australia in the nineteenth century', *Economic history review* 23/2, 1970, 298-313; G. Blainey, *The rush that never ended: a history of Australian mining*, Melbourne 1978; commonwealth and state year books; Department of Trade and Resources, *Australia's mineral resources*, Canberra 1980; *Atlas of Australian resources*, first and second series, Canberra 1957/76; Division of National Mapping, 'Value of mines production', 1981.

118-19 Gold J. McQuilton

MAP AND GRAPHS: J. Flett, *The history of gold discovery in Victoria*, Melbourne 1970; Victorian and Western Australian statistical registers; H. Saddler, 'Minerals and energy' in *Australians: historical statistics*; Western Australia year book, 1902-04. TEXT: Blainey, *The rush that never ended*; F.K. Crowley, *Australia's western third: a history of Western Australia*, Melbourne 1960; Flett, *Gold discovery in Victoria*; G. Serle, *The golden age: a history of the colony of Victoria 1851-1861*, Melbourne 1963; Western Australian year books.

120 Coal J.C.R. Camm

MAP, GRAPHS AND TEXT: R. Crivelli, 'History of the

coal industry in Australia', *Journal and proceedings of the Royal Australian Historical Society* 16/3, 1930, 152-60; Division of National Mapping, 'Coal resources 1981', 1982; H.S. Elford and M.R. McKeown, *Coal mining in Australia*, Melbourne 1947; Joint Coal Board, *Black coal in Australia 1983-84. A statistical year book*, Sydney 1984; Queensland Energy Advisory Council, *Annual review and energy statistics*, Brisbane 1984; Queensland year books.

121 Iron ore J.C.R. Camm

MAPS, GRAPH AND TEXT: Commonwealth year books; Department of Trade and Resources, *Australia's mineral resources, iron ore*, Canberra 1981; Western Australian year books.

122-3 Electric power J.C.R. Camm

MAPS, GRAPHS AND TEXT: Department of Resources and Energy, *Energy demand and supply: Australia 1960-61 to 1982-83*, Canberra 1984; 'Power and fuel', *Atlas of Australian resources*, first series, Canberra 1955; 'Electricity', *Atlas of Australian resources*, first series, Canberra 1962; H. Saddler, *Energy in Australia. Politics and economics*, Sydney 1981; Annual report of the Electricity Commission of New South Wales, 30 June 1984, in *New South Wales Parliamentary papers*, 1984.

POWER (measure of generating capacity)

W = Watt

KW = Kilowatt (1000 watts)

MW = Megawatt (1 000 000 watts)

ENERGY

Wh = Watt hour

KWh = Kilowatt hour (1000Wh)

MWh = Megawatt hour (1000KWh)

GWh = Gigawatt hour (1 000 000KWh)

TWh = Terawatt hour (1 000 000 000KWh)

124 Snowy Mountains scheme J. McQuilton

TEXT: 'Report of the Snowy River Investigation Committee on the utilization of the waters of the Snowy River, 1944' in *New South Wales Parliamentary papers*, 1, 1944-45; commonwealth year books, 1950-80.

125 Oil and gas J.C.R. Camm

MAPS AND GRAPHS: Department of Resources and Energy, *Energy demand*; Esso Australia Ltd, *An Esso report: Australian energy outlook*, Sydney 1984; National Energy Advisory Council, *Australia's energy resources 1980*, report 14, Canberra 1981. TEXT: D.W. Barnett, *Minerals and energy in Australia*, Sydney 1979; Esso Australia Ltd, *An Esso report*; National Energy Advisory Council, *Australia's energy*; Saddler, *Energy in Australia*.

126-7 Manufacturing M. Neutze and N.G. Butlin

MAP: Originally prepared and published by the Department of National Development, Canberra, Ref No A102/20.31, 'Manufacturing industries', *Atlas of Australian resources*, first series, Canberra 1960. TEXT: N.G. Butlin, *Investment in Australian economic development 1861-1900*, Canberra 1972; 'Manufacturing industries', *Atlas of Australian resources*, second series, Canberra 1975; C. Forster (ed), *Australian economic development in the twentieth century*, London 1970.

128-9 Railways J. McQuilton, J.C.R. Camm and G. Parkinson

MAPS: The map showing dates of opening of lines was compiled from railway maps and reports in the colonial and state *Parliamentary papers*. The map of Australia's railways in 1986 was compiled by the Geographic Section of the Division of National Mapping. TEXT: N.G. Butlin, *Australian domestic product, investment and foreign borrowing 1861-1938/39*, Cambridge 1962, *Atlas of Australian resources*, first and second series, Canberra 1956/74; P.J. Rimmer, 'Politicians, public servants and petitioners: aspects of transport in Australia 1851-1901', in J.M. Powell and M. Williams, *Australian space, Australian time, geographical perspectives*, Melbourne 1975.

130 Roads J. McQuilton and P. Spearritt

GRAPHS: Bureau of Transport Economics, *Assessment of the Australian road system: 1984*, Canberra 1984. TEXT: Department of Main Roads New South Wales, *The roadmakers: a history of main roads in New South Wales*, Sydney 1973; J. Fitzpatrick, *The bicycle and the bush*, Melbourne 1980.

131 Overseas trade J. McQuilton

CARTOGRAMS, GRAPHS AND TEXT: P. Drysdale, 'Trade', *Australian encyclopaedia*, Sydney 1977; A. Lougheed, 'International transactions and foreign commerce', in *Australians: historical statistics*.

II PEOPLE

7 AN IMMIGRANT NATION

136-7 Aboriginal colonisation A. Ross

MAPS AND TEXT: J.B. Birdsell, 'Some population problems involving Pleistocene man', *Cold Springs Harbour symposium on quantitative biology* 22, 1957, 47-69; S. Bowdler, 'The coastal colonisation of Australia', in J. Allen *et al* (eds), *Sunda and Sahul*, London 1977, 205-46; D.R. Horton, 'A review of the extinction question: man, climate and megafauna', *Archaeology and physical anthropology in Oceania* 15, 1980, 86-97.

138-9 Aboriginal languages M. Walsh, S.A. Wurm and P. Black

MAPS AND TEXT: M.J. Walsh and S.A. Wurm, 'Maps of Australia and Tasmania', in S. Wurm and S. Hattori (eds), *Language atlas of the Pacific area*, part 1, Canberra 1981.

140 Missions and reserves J. McQuilton

MAPS AND TEXT: Aboriginal Land Rights Commission, *First report*, Canberra 1973; P. Biskup, *Not slaves not citizens: the Aboriginal problem in Western Australia*, St Lucia 1973; Division of National Mapping, 'Australia. Aboriginal lands and population', NNP 79/112; P. Hasluck, *Black Australians: a survey of native policy in Western Australia 1829-1897*, Melbourne 1980 (1942); J.P.M. Long, *Aboriginal settlements: a survey of institutional communities in eastern Australia*, Canberra 1970; R.H.W. Reece, *Aborigines and colonists: Aborigines and colonial society in New South Wales in the 1830s and 1840s*, Sydney 1974; C.D. Rowley, *Outcasts in white Australia*, Canberra 1972.

141 Aboriginal population J.C.R. Camm

MAPS AND GRAPHS: Division of National Mapping, 'Aboriginal lands and population'; National Population Enquiry, *Population and Australia, a demographic analysis and projection*, 1, Canberra 1975; C.D. Rowley, *The destruction of Aboriginal society*, Canberra 1970; L.R. Smith, *The Aboriginal population of Australia*, Canberra 1980.

142-3 Population growth J.C.R. Camm and J. McQuilton

The sources listed below also provided information for material mapped in the rest of this chapter. GRAPHS: Colonial and commonwealth censuses; commonwealth and state year books; statistics were also released by colonial, state and commonwealth governments as bulletins, as papers presented to parliaments and as annual statistical registers. TEXT: R.T. Appleyard, *British emigration to Australia*, Canberra 1964; W.D. Borrie, *Immigration, Australia's problems and prospects*, Sydney 1949; W.D. Borrie, 'Population' in *Australian encyclopaedia*, Sydney 1977; W.D. Borrie, *Population trends and policies: a study in Australian and world demography*, Sydney 1948; W.D. Borrie and G. Spencer (eds), *Australia's population structure and growth: a major research study*, Canberra 1965; T.A. Coghlan, *Labour and industry in Australia*, 4 vols, Melbourne 1969 (1918); F.K. Crowley (ed), *A new history of Australia*, Melbourne 1974; Department of Immigration and Ethnic Affairs, *Australian consolidated statistics*, Canberra 1979; Department of Immigration and Ethnic Affairs, *A review of migration to Australia 1788-1975*, Canberra 1979; R.B. Madgwick, *Immigration into eastern Australia 1788-1851*, Sydney 1969; Department of Labour and Immigration, *Population and Australia: a demographic analysis and projection*, Canberra 1975; C.A. Price (ed), *Australian immigration, a bibliography and digest*, Canberra 1966-81; J. Zubrzycki, *Immigrants in Australia: a demographic survey based upon the 1954 census*, Melbourne 1960.

144-5 Immigrant origins J. McQuilton

CARTOGRAMS AND TEXT: Information for the cartograms was drawn mainly from census material. The separation of countries and the creation of regional blocks was made on the basis of the historical significance of a group and the nature of the statistics collected (eg, the Danes were separated from the regional grouping, Scandinavia; the 'Baltic republics' were often grouped as a block; in some censuses the Ukraine was counted separately, in others grouped with the USSR; the nationalities that presently make up Yugoslavia were rarely listed). For text sources, see those listed for pages 142-3, 'Population growth'.

146 The Australian born J. McQuilton

MAPS AND GRAPH: Colonial and commonwealth censuses. TEXT: K.S. Inglis, *The Australian colonists: an exploration of social history 1788-1870*, Melbourne 1974; R. Ward, *The Australian legend*, Melbourne 1965 (1958); R. Ward and K. Macnab, 'The nature and

nurture of the first generation of native-born Australians', *Historical studies* 10/39, 1962, 289-308.

147 New South Wales 1846 J. McQuilton
MAPS: 'Census of the population of New South Wales 1846', *New South Wales Government gazette*, 4 Nov 1846, 1327-78. TEXT: R. Mansfield, *Analytical view of the census of New South Wales for the year 1846*, Sydney 1847.

148-9 Population 1861 J. McQuilton and J.C.R. Camm
MAPS AND GRAPHS: Birthplace information for 1861 is from the censuses taken in New South Wales, Queensland, South Australia and Victoria. Regional breakdowns were not available for Tasmania and Western Australia. The date of the census taken in Western Australia in 1861 differed from the other colonies.

150-1 The German born G. Young and A. Green
MAPS, GRAPH AND TEXT: W.D. Borrie, *Italians and Germans in Australia: a study of assimilation*, Melbourne 1954; C.A. Price, *German settlers in South Australia*, Melbourne 1945; G. Young, 'Early German settlers in South Australia', *Australian historical geography* 2, 1981, 45-69.

152-3 Pacific Islanders J.C.R. Camm
MAPS AND GRAPHS: A. Birch, 'The organisation and economics of Pacific Islands' labour in the Queensland sugar industry 1863-1906', *Business archives and history* 4/1, 1966, 53-76; C. Price and E. Baker, 'Origins of the Pacific Island labourers in Queensland 1863-1906', *Journal of Pacific history* 11/1-2, 1976, 106-21; Queensland censuses and statistical registers. TEXT: Birch, 'Pacific Islands' labour'; G. Bolton, *A thousand miles away: a history of north Queensland to 1920*, Canberra 1972; E.W. Docker, *The blackbirders: a brutal story of the Kanaka slave-trade*, London 1981 (1970); T. Dunbabin, *Slavers of the South Seas*, Sydney 1935; Price and Baker, 'Origins of the Pacific Island labourers'.

154-5 Population 1901 and Population 1921 J.C.R. Camm, J. McQuilton, M. Neutze and T.W. Plumb
MAPS AND GRAPHS: Commonwealth censuses. TEXT: N.G. Butlin, *Investment in Australian economic development 1861-1900*, Canberra 1972; M.I. Logan, J.S. Whitelaw and J. McKay, *Urbanisation: the Australian experience*, Melbourne 1981; M. Neutze, *Urban development in Australia*, Sydney 1981. NOTE: Although the criterion used to identify 'large towns' was a minimum of 5 per cent, smaller centres were included down to a clear discontinuity in size. The cut-off points are around 0.4 per cent. 'Small towns' are other centres with populations over 1000. In Tasmania the criterion cannot be used in 1901 or 1921 as 'small towns' were combined with smaller settlements and rural areas. Launceston was the only large town that could be clearly identified.

156 The Chinese born J. McQuilton
MAPS AND GRAPHS: Victorian censuses; K. Cronin, *Colonial casualties, Chinese in early Victoria*, Melbourne 1982, 144-5. TEXT: C. Choi, *Chinese migration and settlement in Australia*, Sydney 1975; Cronin, *Colonial casualties*.

157 Age-sex ratios 1901, 1921 J.C.R. Camm
MAPS, GRAPHS AND TEXT: Commonwealth censuses.

158-9 Population 1954, 1981 J.C.R. Camm, J. McQuilton, M. Neutze and T.W. Plumb
MAPS AND GRAPHS: Commonwealth censuses. TEXT: 'Population increase and decrease 1947-1954', *Atlas of Australian resources*, first series, Canberra 1958; Logan, Whitelaw and McKay, *Urbanisation: the Australian experience*; Neutze, *Urban development in Australia*.

160 Age-sex ratios 1954, 1981 J.C.R. Camm
MAPS, GRAPHS AND TEXT: Commonwealth censuses.

161 The Italian born J. McQuilton
MAPS AND GRAPH: Colonial and commonwealth censuses; commonwealth census, 1961. TEXT: Borrie, *Italians and Germans in Australia*; C.A. Price, *Southern Europeans in Australia*, Melbourne 1963.

162 The Greek born J. McQuilton
MAP AND GRAPH: Colonial and commonwealth censuses; commonwealth census, 1971. TEXT: Price, *Southern Europeans*; C.A. Price (ed), *Greeks in Australia*, Canberra 1975.

8 LIFE AND DEATH

164-5 Colonial mortality rates J.C.R. Camm
MAPS, GRAPHS AND TEXT: N.G. Butlin, *Our original*

aggression, Aboriginal populations of southeastern Australia 1788-1850, Sydney 1983; J.H.L. Cumpston, *The history of small-pox in Australia 1788-1908*, Quarantine Service publication 2, Melbourne 1917; J.H.L. Cumpston, 'Time factor in quarantine practice', *Health* 5/3, 1927, 65-8; B. Gandevia, 'Socio-medical factors in the evolution of the first settlement at Sydney Cove 1788-1803', *Journal of the Royal Australian Historical Society* 61, 1975, 1-15; Report of the Director-General of Public Health for New South Wales 1933, in *New South Wales Legislative Assembly, Parliamentary papers*, 2, 1934; C.M. Young and L.T. Ruzicka, *Population of Australia*, Country monograph series 9/1, Economic and Social Commission for Asia and the Pacific, New York 1982.

166-7 The plague J.C.R. Camm
MAPS, GRAPHS AND TEXT: American Geographical Society, 'Atlas of disease, world distribution of plague', *Geographical review* 42/4, 1952; J.H.L. Cumpston and F. McCallum, *The history of plague in Australia 1900-1925*, Department of Health publication 24, Melbourne 1926; M. Kelly, *Plague in Sydney 1900*, Sydney 1981; J. Ashburton Thompson, *Report of the Board of Health on the first outbreak of plague at Sydney 1900*, Sydney 1901; J. Ashburton Thompson, *Report of the Board of Health on the third outbreak of plague at Sydney 1903*, Sydney 1906.

168-71 Influenza epidemic 1919 J.C.R. Camm
MAPS AND GRAPHS: Commonwealth year books, 1920-21; J.H.L. Cumpston, *Influenza and maritime quarantine in Australia*, Quarantine Service publication 18, Melbourne 1919; New South Wales Department of Health, *Influenza epidemic of 1919*, Sydney 1920; New South Wales Statistical registers; New South Wales year book, 1920. TEXT: W.I.B. Beveridge, *Influenza: the last great plague*, New York 1977; F.M. Burnet and E. Clark, *Influenza*, Melbourne 1942; Cumpston, *Influenza and maritime quarantine*; commonwealth year books, 1920-21; H. McQueen, 'The "Spanish" influenza pandemic in Australia 1918-1919', *Journal of history* 4, 1975, 85-107; M. Roe, 'The establishment of the Australian Department of Health: its background and significance', *Historical studies* 17/67, 1976, 176-92.

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214-15 The Kelly outbreak J. McQuilton

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The author acknowledges the assistance given by Michael McKernan, Bill Gammage and Ken Inglis in the preparation of this chapter.

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227 Conscription J. McQuilton

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230 Yackandandah J. McQuilton

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231 World War II J. McQuilton

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236 Australians as prisoners of war J. McQuilton

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238 The munitions industry J. McQuilton

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244-5 Metropolitan unemployment and poverty. J.C.R. Camm

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254-5 Australia's maritime boundaries V. Prescott
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258-9 Referendums V. Prescott

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260-1 Franchise and Governments since 1900

F.K. Crowley and V. Prescott
MAPS, GRAPH AND TEXT: Commonwealth parliamentary handbooks; *Australian encyclopedia*, Sydney 1977; commonwealth and state year books.

III LANDSCAPES

261-281 City and Country

D.N. Jeans and P. Spearritt
There is an extensive literature on the growth and development of Australian cities and their architecture. See the chapters on the National Estate, City and Region and Architecture in *Australians: a guide to sources*.

References on individual cities can also be found in the regional essays in *Australians: events and places*. City and country landscapes are discussed and depicted in the Australian Council of National Trust's magazine *Heritage Australia* and in the many books produced by the National Trusts and state and federal heritage organisations, including *The heritage of Australia: the illustrated register of the National Estate*, Melbourne 1981 and *Australia in trust*, Sydney 1985.

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- Illustration and caption material appear in italics.
- AIF, *see* Australian Imperial Force
- AIM, *see* Australian Inland Mission
- AMF, *see* Australian Military Forces
- ANZAC, *see* Australian and New Zealand Army Corps
- AWAS, *see* Australian Women's Army Service
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