Appendix A

Comparison of international Montreal Process indicators for sustainable forest management with Australia’s national indicators for sustainable forest management

In reporting on the state of its forests, Australia uses the seven criteria developed in 1995 by the international-level Montreal Process Working Group on Criteria and Indicators for the Conservation and Sustainable Management of Temperate and Boreal Forests (Montreal Process Working Group 2009a, 2009b). Indicators are nested under each of these criteria.

In 1998, the national-level Montreal Process Implementation Group for Australia (MIG), which comprises representatives of the Australian Government and state and territory governments, adapted the Montreal Process set of indicators to better suit reporting on Australia’s unique forests. However, some of Australia’s original set of indicators proved difficult to measure, and some overlapped. In 2006, MIG reviewed the indicators and reduced the list used in Australia to 44 (Commonwealth of Australia 2008). This set of 44 national indicators underpinned SOFR 2008 and SOFR 2013, and again underpins SOFR 2018.

Table A1 shows the alignment of Australia’s 44 national indicators with the 54 international indicators of the Montreal Process.

<table>
<thead>
<tr>
<th>International Montreal Process criteria and indicators</th>
<th>Australian indicator(s) with which each Montreal Process indicator aligns</th>
<th>Australia’s criteria and indicators</th>
<th>Montreal Process indicator(s) with which each Australian indicator aligns</th>
</tr>
</thead>
<tbody>
<tr>
<td>Criterion 1 Conservation of biological diversity</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.1 Ecosystem diversity</td>
<td>1.1a, 1.1b</td>
<td>1.1 Ecosystem diversity</td>
<td>1.1a</td>
</tr>
<tr>
<td>1.1.a Area and percent of forest ecosystem type, successional stage, age class, and forest ownership or tenure</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.1.b Area and percent of forest in protected areas by forest ecosystem type, and by age class or successional stage</td>
<td>1.1c, 1.1b</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.1.c Fragmentation of forests</td>
<td>1.1d</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2 Species diversity</td>
<td>1.2a, 1.2b</td>
<td>1.2 Species diversity</td>
<td>1.2a, 1.2b</td>
</tr>
<tr>
<td>1.2.a Number of native forest associated species</td>
<td>1.2b</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2.b Number and status of native forest associated species at risk, as determined by legislation or scientific assessment</td>
<td>1.2c</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2.c Status of on site and off site efforts focused on conservation of species diversity</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.3 Genetic diversity</td>
<td>1.3a, 1.3b</td>
<td>1.3 Genetic diversity</td>
<td>1.3a, 1.3b</td>
</tr>
<tr>
<td>1.3.a Number and geographic distribution of forest associated species at risk of losing genetic variation and locally adopted genotypes</td>
<td>1.3b</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.3.b Population levels of selected representative forest associated species to describe genetic diversity</td>
<td>1.3c</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.3.c Status of on site and off site efforts focused on conservation of genetic diversity</td>
<td>1.3a, 1.3b</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table A1: Alignment of the international Montreal Process indicators with Australia’s national indicators used in SOFR 2018

Continued
<table>
<thead>
<tr>
<th>International Montreal Process criteria and indicators</th>
<th>Australian indicator(s) with which each Montreal Process indicator aligns</th>
<th>Australia's criteria and indicators</th>
<th>Montreal Process indicator(s) with which each Australian indicator aligns</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Criterion 2 Maintenance of productive capacity of forest ecosystems</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.a Area and percent of forest land and net areas of forest land available for wood production</td>
<td>2.1a -</td>
<td>2.1a Native forest available for wood production, area harvested, and growing stock of merchantable and non-merchantable tree species</td>
<td>2.a -</td>
</tr>
<tr>
<td>2.b Total growing stock and annual increment of both merchantable and non-merchantable tree species in forests available for wood production</td>
<td>2.1a -</td>
<td>2.1b Age class and growing stock of plantations</td>
<td>2.b -</td>
</tr>
<tr>
<td>2.c Area, percent, and growing stock of plantations of native and exotic species</td>
<td>2.1b -</td>
<td>2.1c Annual removal of wood products compared to the volume determined to be sustainable for native forests and future yields for plantations</td>
<td>2.c -</td>
</tr>
<tr>
<td>2.d Annual harvest of wood products by volume and as a percentage of net growth or sustained yield</td>
<td>2.1c -</td>
<td>2.1d Annual removal of non-wood forest products compared to the level determined to be sustainable</td>
<td>2.d -</td>
</tr>
<tr>
<td>2.e Annual harvest of non-wood forest products</td>
<td>2.1d -</td>
<td>2.1e The area of native forest harvested and the proportion of that effectively regenerated, and the area of plantation harvested and the proportion of that effectively re-established</td>
<td>2.e -</td>
</tr>
<tr>
<td><strong>Criterion 3 Maintenance of ecosystem health and vitality</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.a Area and percent of forest affected by biotic processes and agents (e.g. disease, insects, invasive species) beyond reference conditions</td>
<td>3.1a -</td>
<td>3.1a Scale and impact of agents and processes affecting forest health and vitality</td>
<td>3.a -</td>
</tr>
<tr>
<td>3.b Area and percent of forest affected by abiotic agents (e.g. fire, storm, land clearance) beyond reference conditions</td>
<td>3.1a 3.1b -</td>
<td>3.1b Area of forest burnt by planned and unplanned fire</td>
<td>3.b -</td>
</tr>
<tr>
<td><strong>Criterion 4 Conservation and maintenance of soil and water resources</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.1 Protective function</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.1.a Area and percent of forest whose designation or land management focus is the protection of soil or water resources</td>
<td>4.1a -</td>
<td>4.1a Area of forest land managed primarily for protective functions</td>
<td>4.1a -</td>
</tr>
<tr>
<td><strong>4.2 Soil</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.2.a Proportion of forest management activities that meet best management practices or other relevant legislation to protect soil resources</td>
<td>4.1b 4.1c -</td>
<td>4.1b Management of the risk of soil erosion in forests</td>
<td>4.2a -</td>
</tr>
<tr>
<td><strong>4.2.b Area and percent of forest land with significant soil degradation</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>4.3 Water</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.3.a Proportion of forest management activities that meet best management practices, or other relevant legislation, to protect water related resources</td>
<td>4.1d 4.1e -</td>
<td>4.1d Management of the risks to water quantity from forests</td>
<td>4.3a -</td>
</tr>
<tr>
<td><strong>4.3.b Area and percent of water bodies, or stream length, in forest areas with significant change in physical, chemical or biological properties from reference conditions</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Criterion 5 Maintenance of forest contribution to global carbon cycles</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.a Total forest ecosystem carbon pools and fluxes</td>
<td>5.1a -</td>
<td>5.1a Contribution of forest ecosystems and forest industries to the global greenhouse gas balance</td>
<td>5.a 5.b 5.c</td>
</tr>
<tr>
<td>5.b Total forest product carbon pools and fluxes</td>
<td>5.1a -</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.c Avoided fossil fuel carbon emissions by using forest biomass for energy</td>
<td>- 5.1a</td>
<td></td>
<td></td>
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Continued
<table>
<thead>
<tr>
<th>Indicator number</th>
<th>Indicator name</th>
<th>Strong alignment</th>
<th>Partial alignment</th>
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<tbody>
<tr>
<td>6.1.a</td>
<td>Value and volume of wood and wood products production, including primary and secondary processing</td>
<td>6.1a</td>
<td>-</td>
</tr>
<tr>
<td>6.1.b</td>
<td>Value of non-wood forest products produced or collected</td>
<td>6.1b</td>
<td>-</td>
</tr>
<tr>
<td>6.1.c</td>
<td>Revenue from forest based environmental services</td>
<td>6.1c</td>
<td>-</td>
</tr>
<tr>
<td>6.1.d</td>
<td>Total and per capita consumption of wood and wood products in round wood equivalents</td>
<td>6.1d</td>
<td>-</td>
</tr>
<tr>
<td>6.1.e</td>
<td>Total and per capita consumption of non-wood products</td>
<td>6.1e</td>
<td>-</td>
</tr>
<tr>
<td>6.1.f</td>
<td>Value and volume in round wood equivalents of exports and imports of wood products</td>
<td>6.1f</td>
<td>-</td>
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<tr>
<td>6.1.g</td>
<td>Value of exports and imports of non-wood products</td>
<td>6.1g</td>
<td>-</td>
</tr>
<tr>
<td>6.1.h</td>
<td>Exports as a share of wood and wood products production and imports as a share of wood and wood products consumption</td>
<td>6.1h</td>
<td>6.1d</td>
</tr>
<tr>
<td>6.1.i</td>
<td>Recovery or recycling of forest products as a percent of total forest products consumption</td>
<td>6.1i</td>
<td>-</td>
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<table>
<thead>
<tr>
<th>Indicator number</th>
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<th>Partial alignment</th>
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</thead>
<tbody>
<tr>
<td>6.2.a</td>
<td>Value of capital investment and annual expenditure in forest management, wood and non-wood product industries, forest-based environmental services, recreation and tourism</td>
<td>6.2a</td>
<td>-</td>
</tr>
<tr>
<td>6.2.b</td>
<td>Annual investment and expenditure in forest-related research, extension and development, and education</td>
<td>6.2b</td>
<td>-</td>
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<tr>
<td>6.5.a</td>
<td>Employment in the forest sector</td>
<td>6.5a</td>
<td>-</td>
</tr>
<tr>
<td>6.5.b</td>
<td>Average wage rates, annual average income and annual injury rates in major forest employment categories</td>
<td>6.5b</td>
<td>-</td>
</tr>
<tr>
<td>6.5.c</td>
<td>Resilience of forest-dependent communities</td>
<td>6.5c</td>
<td>-</td>
</tr>
<tr>
<td>6.5.d</td>
<td>Area and percent of forests used for subsistence purposes</td>
<td>6.5d</td>
<td>-</td>
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<table>
<thead>
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<th>Indicator number</th>
<th>Indicator name</th>
<th>Strong alignment</th>
<th>Partial alignment</th>
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<tbody>
<tr>
<td>6.4.a</td>
<td>Area and percent of forests available and/or managed for public recreation and tourism</td>
<td>6.4a</td>
<td>-</td>
</tr>
<tr>
<td>6.4.b</td>
<td>Number, type, and geographic distribution of visits attributed to recreation and tourism and related to facilities available</td>
<td>6.4b</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Indicator number</th>
<th>Indicator name</th>
<th>Strong alignment</th>
<th>Partial alignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.1.a</td>
<td>Value and volume of wood and wood products</td>
<td>6.1.a</td>
<td>-</td>
</tr>
<tr>
<td>6.1.b</td>
<td>Values, quantities and use of non-wood forest products</td>
<td>6.1.b</td>
<td>-</td>
</tr>
<tr>
<td>6.1.c</td>
<td>Value of forest based services</td>
<td>6.1.c</td>
<td>-</td>
</tr>
<tr>
<td>6.1.d</td>
<td>Production and consumption and import/export of wood, wood products and non-wood products</td>
<td>6.1.d</td>
<td>6.1.e</td>
</tr>
<tr>
<td>6.1.e</td>
<td>Degree of recycling of forest products</td>
<td>6.1.e</td>
<td>-</td>
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<tr>
<td>6.2.a</td>
<td>Investment and expenditure in forest management</td>
<td>6.2.a</td>
<td>-</td>
</tr>
<tr>
<td>6.2.b</td>
<td>Investment in research, development, extension and use of new and improved technologies</td>
<td>6.2.b</td>
<td>-</td>
</tr>
<tr>
<td>6.3.a</td>
<td>Direct and indirect employment in the forest sector</td>
<td>6.3.a</td>
<td>-</td>
</tr>
<tr>
<td>6.3.b</td>
<td>Wage rates and injury rates within the forest sector</td>
<td>6.3.b</td>
<td>-</td>
</tr>
<tr>
<td>6.3.c</td>
<td>Resilience of forest dependent communities to changing social and economic conditions</td>
<td>6.3.c</td>
<td>-</td>
</tr>
<tr>
<td>6.3.d</td>
<td>Resilience of forest dependent Indigenous communities to changing social and economic conditions</td>
<td>6.3.d</td>
<td>-</td>
</tr>
<tr>
<td>6.3.a</td>
<td>Area of forest available for public recreation/tourism</td>
<td>6.3.a</td>
<td>-</td>
</tr>
<tr>
<td>6.3.b</td>
<td>Range and use of recreation/tourism activities available</td>
<td>6.3.b</td>
<td>-</td>
</tr>
</tbody>
</table>

Continued
### Criterion 6: Maintenance and enhancement of long-term multiple socio-economic benefits to meet the needs of societies (Continued)

<table>
<thead>
<tr>
<th>Indicator number</th>
<th>Indicator name</th>
<th>Strong alignment</th>
<th>Partial alignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.5.a</td>
<td>Area and percent of forests managed primarily to protect the range of cultural, social and spiritual needs and values</td>
<td>6.4a</td>
<td>6.4b</td>
</tr>
<tr>
<td>6.4c</td>
<td>Registered places of non-Indigenous cultural value in forests that are formally managed to protect those values</td>
<td>6.5.a</td>
<td></td>
</tr>
<tr>
<td>6.5.b</td>
<td>The importance of forests to people</td>
<td>6.4d</td>
<td></td>
</tr>
<tr>
<td>6.4d</td>
<td>The importance of forests to people</td>
<td>6.5.a</td>
<td></td>
</tr>
</tbody>
</table>

### Criterion 7: Legal, institutional and economic framework for forest conservation and sustainable management

<table>
<thead>
<tr>
<th>Indicator number</th>
<th>Indicator name</th>
<th>Strong alignment</th>
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</thead>
<tbody>
<tr>
<td>7.1.a</td>
<td>Legislation and policies supporting the sustainable management of forests</td>
<td>7.1a</td>
<td>7.1b</td>
</tr>
<tr>
<td>7.1b</td>
<td>Cross-sectoral policy and programme coordination</td>
<td>–</td>
<td>7.1a</td>
</tr>
<tr>
<td>7.1.c</td>
<td>Taxation and other economic strategies that affect the sustainable management of forests</td>
<td>7.1c</td>
<td>–</td>
</tr>
<tr>
<td>7.3.a</td>
<td>Clarity and security of land and resource tenure and property rights</td>
<td>–</td>
<td>7.1a</td>
</tr>
<tr>
<td>7.3.b</td>
<td>Enforcement of laws related to forests</td>
<td>–</td>
<td>7.1a</td>
</tr>
<tr>
<td>7.4.a</td>
<td>Programmes, services and other resources supporting the sustainable management of forests</td>
<td>–</td>
<td>7.1b</td>
</tr>
<tr>
<td>7.4.b</td>
<td>Development and application of research and technologies for the sustainable management of forests</td>
<td>7.1e</td>
<td>–</td>
</tr>
<tr>
<td>7.5.a</td>
<td>Partnerships to support the sustainable management of forests</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>7.5.b</td>
<td>Public participation and conflict resolution in forest-related decision making</td>
<td>–</td>
<td>7.1b</td>
</tr>
<tr>
<td>7.5.c</td>
<td>Monitoring, assessment and reporting on progress towards sustainable management of forests</td>
<td>7.1d</td>
<td>–</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Indicator number</th>
<th>Indicator name</th>
<th>Strong alignment</th>
<th>Partial alignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.1.a</td>
<td>Extent to which the legal framework supports the conservation and sustainable management of forests</td>
<td>7.1a</td>
<td>7.3.a</td>
</tr>
<tr>
<td>7.1.b</td>
<td>Extent to which the institutional framework supports the conservation and sustainable management of forests</td>
<td>–</td>
<td>7.1a</td>
</tr>
<tr>
<td>7.1.c</td>
<td>Extent to which the economic framework supports the conservation and sustainable management of forests</td>
<td>7.2.a</td>
<td>–</td>
</tr>
<tr>
<td>7.1.d</td>
<td>Capacity to measure and monitor changes in the conservation and sustainable management of forests</td>
<td>7.5.c</td>
<td>–</td>
</tr>
<tr>
<td>7.1.e</td>
<td>Capacity to conduct and apply research and development aimed at improving forest management and delivery of forest goods and services</td>
<td>7.4.b</td>
<td>–</td>
</tr>
</tbody>
</table>

### References


Glossary

Numbers separate alternative definitions or uses.

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition and use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abiotic</td>
<td>The non-biological components of the environment (e.g. climate, soil and water).</td>
</tr>
<tr>
<td>Above-ground biomass</td>
<td>All living biomass above the soil, including stump, stem, bark, branches and foliage, and attached material such as dead branches. See Below-ground biomass, Biomass.</td>
</tr>
<tr>
<td>Acacia</td>
<td>As a national forest type, forest dominated by trees of the genus Acacia.</td>
</tr>
<tr>
<td>Acidification</td>
<td>Increasing levels of acidity – for example, in soil – that can damage soil and vegetation.</td>
</tr>
<tr>
<td>Adaptive capacity (human)</td>
<td>Ability, or potential, of a community or individual to modify or change characteristics or behaviour to cope better with change or stresses. See Community.</td>
</tr>
<tr>
<td>Afforestation</td>
<td>Establishment of forest on land not previously forested. The Kyoto Protocol and initiatives such as the Carbon Farming Initiative use specific definitions of afforestation. See Deforestation, Forest, Reforestation.</td>
</tr>
<tr>
<td>Age class</td>
<td>Group of trees of a similar age. For example, a cohort of native forest trees regenerating after a disturbance event, or a set of plantations established in a given time-period.</td>
</tr>
<tr>
<td>Aggregated retention</td>
<td>A native forest silvicultural system in which clumps or clusters of trees are retained in forest stands harvested for wood. A form of variable retention. See Silvicultural practices / systems, Variable retention.</td>
</tr>
<tr>
<td>Agroforestry</td>
<td>See Farm forestry.</td>
</tr>
<tr>
<td>Apical dominance</td>
<td>Growth habit of a shoot whereby growth and development of lateral buds are suppressed.</td>
</tr>
<tr>
<td>Allowable cut</td>
<td>The average quantity of wood, usually prescribed in a legislative instrument or an approved management plan, permitted to be harvested from a forest management planning unit or region, annually or periodically, under management for sustained yield. See Sustainable yield, Sustained yield</td>
</tr>
<tr>
<td>Arboretum</td>
<td>A collection of living trees established at a single site at least partly for observation and scientific study. Plural: arboreta.</td>
</tr>
<tr>
<td>Arisings</td>
<td>Logs produced (arising) as a result of the harvest of logs of other species or of other grades, but that do not meet the size or quality specifications for those other species or grades.</td>
</tr>
<tr>
<td>Below-ground biomass</td>
<td>All biomass of live roots in the soil. (Fine roots are often excluded from measurement because it is difficult to separate these from soil organic matter.) See Above-ground biomass, Biomass.</td>
</tr>
<tr>
<td>Biodiversity</td>
<td>The variety of all life forms, plants, animals and microorganisms, their genes and the ecosystems they inhabit. See Ecosystem diversity, Genetic diversity, Species diversity.</td>
</tr>
<tr>
<td>Bioenergy</td>
<td>A form of energy derived from biomass, when biomass is used to generate electricity or heat or to produce fuels. See Biofuel, Biomass.</td>
</tr>
<tr>
<td>Biofuel</td>
<td>An energy source made from organisms and their products such as wood and plant matter, algae, or animal fats. See Bioenergy.</td>
</tr>
<tr>
<td>Biogeographic</td>
<td>Relating to the study of the distribution of living things.</td>
</tr>
<tr>
<td>Biological diversity</td>
<td>See Biodiversity.</td>
</tr>
<tr>
<td>Biomass</td>
<td>1. Material of biological origin (plant and other).  2. Living and dead organic material located above-ground and below-ground, for example, trees, grasses, litter, roots and soil organic matter (for purposes of carbon accounting).</td>
</tr>
<tr>
<td>Biome</td>
<td>A large, regional ecological unit, usually defined by some dominant vegetative pattern.</td>
</tr>
<tr>
<td>Bioregion</td>
<td>A large, geographically distinct area that has a common climate, geology, landform, and vegetation and animal communities. See IBRA.</td>
</tr>
<tr>
<td>Biotic</td>
<td>Used in reference to the biological components of the environment (e.g. plants, animals and other organisms).</td>
</tr>
<tr>
<td>Bole log</td>
<td>Log taken from the tree trunk between the ground and the crown break (the height of the first major branch).</td>
</tr>
<tr>
<td>Bole volume</td>
<td>Volume of a bole log.</td>
</tr>
<tr>
<td>Broadscale clearing</td>
<td>Clearing of large tracts of native vegetation. See Forest clearing, Land clearing.</td>
</tr>
</tbody>
</table>
As a national forest type, forest dominated by trees of the genus Callitris.

Callitris
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CAR reserve system
A forest reserve system that includes the full range of vegetation communities (‘comprehensive’), with a level of reservation sufficiently large to maintain species diversity as well as community interaction and evolution (‘adequate’), and conserving the diversity (including generic diversity) within each vegetation community (‘representative’). The CAR reserve system comprises dedicated reserves, informal reserves, and areas where forest values are protected by management prescriptions, as well as areas protected on private land. Dedicated, or formal, reserves are set aside for conservation through areas such as national parks. Informal forest reserves are areas set aside for conservation in forests that are otherwise production forests, such as special protection zones in state forests. In further areas, such as production forests, protection of values may be prescribed through management prescriptions in codes of practice or management plans; examples include components of the CAR reserve system that are not mappable in advance of their detection, and/or where inclusion in dedicated or informal reserves is impractical, such as riparian vegetation, or rare, dispersed or fragmented values. See National Reserve System, Protected area, Vegetation community.

Carbon accounting
Estimation of the amount of carbon stored in an ecosystem and changes in this amount.

Carbon credit
A tradable certificate, permit or legal instrument, deriving from a verified reduction of one unit (one tonne) of carbon dioxide emissions (or equivalent), and tradable to offset one unit (one tonne) of carbon dioxide emissions (or equivalent).

Carbon sequestration
Removal of carbon from the atmosphere and its storage in vegetation, soils or elsewhere.

Carbon sink
A carbon reservoir or pool that has the capacity to accumulate carbon.

Carbon source
A carbon reservoir or pool that has the capacity to release carbon.

Carbon stock
Quantity of carbon in a carbon reservoir or pool; the quantity of carbon stored in forests and wood products.

Carbon store
A carbon reservoir or pool. Forests and wood products are examples of carbon stores.

Casuarina
As a national forest type, Casuarina forest is forest dominated by any of four genera in the family Casuarinaceae; typically, forest dominated by trees of the genera Allocasuarina or Casuarina.

Certification
See Forest certification.

Certified forest
A forest that has been certified by an accredited, independent third party to comply with the requirements of a credible and recognised forest management standard. See Forest certification.

Chain of custody
A process of verifying the origin and supply of wood or timber product through the supply chain to a point of market. Generally, this applies to products from forests with forest certification or where products are legally harvested. See Forest certification.

Chlorosis
Yellowing or whitening of leaf tissue due to a lack of chlorophyll, typically caused by disease, changed drainage, plant nutrient deficiencies, damage to roots, or compaction of soil.

Clearfelling
A native forest silvicultural system in which all (or nearly all) the trees in an area are harvested in one operation, such that more than half of the harvested area is greater than one tree height from a retained forest edge. Clearfelling is generally used in native forest types dominated by shade-intolerant tree species. In the harvest of plantations, clearfelling is harvesting all the trees on a site. See Silvicultural practices / systems.

Clone
Genetically identical copies of a plant produced by tissue culture or vegetative reproduction.

Closed forest
Forest in which the tree crown cover ranges from over 80% to 100%. See Open forest, Woodland forest, Crown cover.

CO₂-equivalent (CO₂-e)
Measurement unit for the effect in the atmosphere of greenhouse gases relative to the effect of a unit of carbon dioxide (CO₂).

Code of forest practice
A set of principles, procedures, guidelines and standards that defines and prescribes minimum acceptable practices in wood harvesting and associated forestry operations.

Commercial plantation
1. A National Forest Inventory forest category that comprises hardwood or softwood plantations managed commercially to supply logs to wood-processing industries for the manufacture of wood products. Previously known as Industrial plantation. ‘Commercial plantation’ does not include forest reported in the other two national forest categories, ‘Native forest’ and ‘Other forest’.
2. A plantation reported through the National Plantation Inventory. See Native forest, Other forest, Plantation.

Commerciality
The expected volume yield of commercial sawlog or veneer log (or high-value equivalent) that is available over the long term, based on good silvicultural practices; derived from the combination of merchantability and productivity.

Community
1. Biological: a naturally occurring group of species inhabiting a particular area and interacting with each other, especially through biological relationships, relatively independently of other communities.
2. Human: a group of people associated with a particular place or geographic area.
<table>
<thead>
<tr>
<th>Term</th>
<th>Definition and use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Community adaptive capacity (human)</td>
<td>See Adaptive capacity.</td>
</tr>
<tr>
<td>Community resilience (human)</td>
<td>The capacity of an individual, community or human system to absorb and respond to shocks while sustaining an acceptable level of function, structure, and identity.</td>
</tr>
<tr>
<td>Compaction</td>
<td>See Soil compaction.</td>
</tr>
<tr>
<td>Compliance audit</td>
<td>An audit of conformance to an environmental or forest management standard, silvicultural practice, or set of code of practice prescriptions. See Code of forest practice, Forest certification.</td>
</tr>
<tr>
<td>Conifer</td>
<td>Any taxon of the order Pinales (formerly Coniferales), a group of gymnosperms with characteristic reproductive structures called cones; includes Araucariaceae (araucaria family), Cupressaceae (cypress family), Pinaceae (pine family) and Podocarpaceae (podocarp family). See Pine, Softwood.</td>
</tr>
<tr>
<td>Connectivity</td>
<td>The degree of vegetation structural links between forest patches in a landscape, which facilitate species movement across habitat within the landscape context.</td>
</tr>
<tr>
<td>Conservation covenant</td>
<td>A voluntary, permanent, legally binding agreement made between a landholder and a covenant scheme provider to protect and enhance the natural, cultural and/or scientific values of a specified area of land. Conservation covenants are typically entered into for privately managed forest on private freehold or leasehold tenures; the provider can include not-for-profit organisations, government agencies or local councils. See Conservation reserve.</td>
</tr>
<tr>
<td>Conservation reserve</td>
<td>Area of land set aside to protect inherent environmental values. Development in, and use of, conservation reserves is usually restricted to activities that are compatible with conservation of the environmental values for which the reserve was declared. Conservation reserves include national parks, conservation parks and nature reserves, and informal reserves on public land, and are complemented by areas protected by conservation covenants on private land. See Conservation covenant, Nature conservation reserve (Public).</td>
</tr>
<tr>
<td>Coverage</td>
<td>Digital representation of spatial data for a geographic unit or region, typically with attributes that describe a theme associated with the geographic unit. Usually created and used in geographic information systems.</td>
</tr>
<tr>
<td>Criterion</td>
<td>As used in Australia’s State of the Forests reports, a category of conditions or processes by which sustainable forest management may be assessed. A criterion is characterised by a set of related indicators that are monitored periodically to assess change in conditions or monitor trends over time. See Indicator, Montreal Process.</td>
</tr>
<tr>
<td>Critically endangered species / ecological community</td>
<td>A native species / ecological community facing an extremely high risk of extinction in the wild in the immediate future. One of the categories of threatened species / ecological communities defined in the Commonwealth Environment Protection and Biological Conservation Act 1999. See Ecological community, Endangered species / ecological community, Extinct, Extinct in the wild, Threatened ecological community, Threatened species, Vulnerable species / ecological community.</td>
</tr>
<tr>
<td>Crown cover</td>
<td>The area of ground covered by tree canopies, ignoring overlaps and gaps within individual canopies.</td>
</tr>
<tr>
<td>Crown density</td>
<td>A property of tree crowns, measured as the proportion of light from the sky that is blocked from reaching the ground by living or dead plant material.</td>
</tr>
<tr>
<td>Crown land</td>
<td>Land belonging to the Crown, being a national, state or territory government, including Crown land under private leasehold title. See Leasehold title, Other Crown land, Public land.</td>
</tr>
<tr>
<td>Defined forest area</td>
<td>Area of forest under management control of an agency. In relation to the Australian Standard for Sustainable Forest Management (AS 4708), the area of forest (including land and water) to which the requirements of the standard are applied, and over which a forest manager can demonstrate management control, which allows them to achieve the requirements of that standard.</td>
</tr>
<tr>
<td>Deforestation</td>
<td>A type of land clearing involving the permanent removal of tree cover. The Kyoto Protocol and initiatives such as the Carbon Farming Initiative use specific definitions of deforestation. See Afforestation, Forest, Reforestation.</td>
</tr>
</tbody>
</table>
| Degradation                                                         | 1. Loss of specific aspects of a forest ecosystem, such as tree cover, structural features or species, or of habitat characteristics that support the requirements of species or communities, short of being defined as deforestation.  
2. Reduction in the capacity of a forest to provide a range of goods and services. |
<p>| Dieback                                                             | A symptom of disease agents or environmental factors in which foliage dies progressively from the extremities and trees exhibit loss of vigour; used in reference to native forests affected by cinnamon fungus (Phytophthora cinnamomi), salinity, drought or pest load, or by changed nutrient, water or fire regimes, or trees on land subjected to overgrazing. |
| Direct employment                                                   | The number of jobs in public and private agencies and firms relating to the process of producing goods or providing a service. Any secondary economic activity resulting from the primary activity is included in indirect employment. See Indirect employment. |
| Dry forest / dry sclerophyll forest                                 | Typically, eucalypt-dominated sclerophyll forest associated with water-limited or nutrient-limited conditions, and with an understorey (if present) of sclerophyll trees or shrubs. Ground cover can be bare, litter, grassy or heathy. See Eucalypt, Sclerophyll, Wet forest / wet sclerophyll forest. |</p>
<table>
<thead>
<tr>
<th>Term</th>
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</tr>
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<tbody>
<tr>
<td>Ecological community</td>
<td>A group of plants, animals and other organisms that are interacting in a habitat.</td>
</tr>
<tr>
<td>Ecological and/or ecosystem resilience</td>
<td>See Resilience.</td>
</tr>
<tr>
<td>Ecologically mature</td>
<td>Displaying a range of structural, functional and compositional attributes and ecological processes characteristic of forests in their mature or senescent growth stages.</td>
</tr>
<tr>
<td>Ecologically sustainable forest management</td>
<td>The integration of commercial and non-commercial values of forests so that the welfare of society (both material and non-material) is improved, while ensuring that the values of forests, both as a resource for commercial use and for conservation, are not lost or degraded for current and future generations. Some jurisdictions have legislated principles of ecologically sustainable forest management that have to be considered in managing public forests.</td>
</tr>
<tr>
<td>Ecologically sustainable use</td>
<td>Use of natural resources within their capacity to sustain natural processes, while maintaining the life-support systems of nature and ensuring that the benefit of use by the present generation does not diminish the potential to meet the needs and aspirations of future generations.</td>
</tr>
<tr>
<td>Ecosystem</td>
<td>A dynamic complex of plant, animal and microorganism communities and their non-living environment, interacting as a functional unit.</td>
</tr>
<tr>
<td>Ecosystem diversity</td>
<td>The diversity of different ecological communities formed by living organisms and the relations among them.</td>
</tr>
<tr>
<td>Environmental compliance</td>
<td>Conforming to specified requirements in environmental laws, regulations, environmental management systems, management plans, planning specifications, codes of practice, standards and prescription guidelines. See Code of forest practice, Environmental management system.</td>
</tr>
<tr>
<td>Environmental management system</td>
<td>A framework for the systematic management of an organisation's environmental obligations and objectives.</td>
</tr>
<tr>
<td>Environmental planting</td>
<td>In a forest context, trees established for environmental benefit (rather than for commercial use) by direct seeding or planting that have the potential to attain a crown cover of 20% or more and a height of at least 2 metres. See Commercial plantation, Other forest, Plantation.</td>
</tr>
<tr>
<td>Environmental services</td>
<td>See Ecosystem services.</td>
</tr>
<tr>
<td>Eucalypt</td>
<td>1. Any member of the genera Angophora, Corymbia and Eucalyptus, being trees or large shrubs in the family Myrtaceae, mostly native to Australia. 2. As a national forest type, forest dominated by any of the three genera Angophora, Corymbia and Eucalyptus.</td>
</tr>
<tr>
<td>Even-aged forest</td>
<td>Native forest in which all trees are about the same age or of the same age class, even though they may vary in size because of their different rates of growth or location within the stand. See Uneven-aged forest.</td>
</tr>
<tr>
<td>Exclusion zone</td>
<td>Forest excluded from wood harvest or management operations as a result of the application of a prescription in a code of practice (such as for fire, forest or reserve management).</td>
</tr>
<tr>
<td>Exotic</td>
<td>Species of plant or animal that does not occur naturally in a region or country. See Indigenous (of species), Introduced species.</td>
</tr>
<tr>
<td>Ex situ conservation</td>
<td>The conservation of species and genetic components of biological diversity outside their natural habitats. See In situ conservation.</td>
</tr>
<tr>
<td>Extinct</td>
<td>A species for which there is no reasonable doubt that the last individual has died, or for which exhaustive surveys in known or expected habitats throughout its historical range have failed to record an individual over a time frame appropriate to its lifecycle and form. One of the categories of threatened species defined in the Commonwealth Environment Protection and Biological Conservation Act 1999.</td>
</tr>
<tr>
<td>Extinct in the wild</td>
<td>A species known to survive only in cultivation, in captivity or as a naturalised population well outside its past range, and that has not been recorded in its known and/or expected habitat, at appropriate seasons, anywhere in its past range, despite exhaustive surveys over a time frame appropriate to its life cycle and form. One of the categories of threatened species defined in the Commonwealth Environment Protection and Biological Conservation Act 1999.</td>
</tr>
<tr>
<td>Term</td>
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</tr>
<tr>
<td>Farm forestry</td>
<td>Establishment and/or management of trees or forests on agricultural landscapes for commercial, aesthetic and/or environmental reasons. Also known as agroforestry.</td>
</tr>
<tr>
<td>Fecundity</td>
<td>The capacity of an individual or a species to reproduce or multiply. Can be measured as the rate of production of viable, fertile offspring that survive to reproductive age. See Fertility.</td>
</tr>
<tr>
<td>Fertility</td>
<td>The ability of an individual, population or species to sexually reproduce successfully. See Fecundity.</td>
</tr>
<tr>
<td>Fibreboard</td>
<td>A category of reconstituted wood panel products made from pulpwood and/or wood-processing residues such as woodchips, sawmill shavings and sawdust plus a resin or binder, pressed into panels. Types of fibreboard (in order of increasing density) include particleboard, medium-density fibreboard (MDF), high-density fibreboard and hardboard.</td>
</tr>
<tr>
<td>Fire regime</td>
<td>The frequency, intensity, seasonality and scale of burning of an area or vegetation type over a period of time. The history or forecast of fire events in a particular area or vegetation type.</td>
</tr>
<tr>
<td>Firewood</td>
<td>Wood used for residential heating. See Fuelwood.</td>
</tr>
<tr>
<td>Floriculture</td>
<td>Cultivation of flowering and ornamental plants.</td>
</tr>
<tr>
<td>Floristics</td>
<td>Study of the distribution and relationships of plants over a geographic area.</td>
</tr>
<tr>
<td>Forest</td>
<td>An area, incorporating all living and non-living components, that is dominated by trees having usually a single stem and a mature or potentially mature stand height exceeding 2 metres and with existing or potential crown cover of overstorey strata about equal to or greater than 20%. This includes Australia’s diverse native forests and plantations, regardless of age. It is also sufficiently broad to encompass areas of trees that are sometimes described as woodlands.</td>
</tr>
<tr>
<td>Forest certification</td>
<td>A process whereby the quality of sustainable forest management is assessed and certified by an accredited, independent third party, against the criteria and requirements of a credible and recognised forest management standard. See Certified forest.</td>
</tr>
<tr>
<td>Forest clearing</td>
<td>Conversion of forested land to agricultural, urban or other non-forest land uses. See Broadscale clearing, Land clearing.</td>
</tr>
<tr>
<td>Forest-dependent community (human)</td>
<td>A community having an identified dependence on the forestry and wood products industries.</td>
</tr>
<tr>
<td>Forest-dependent species</td>
<td>A species that requires a forest habitat for at least part of its lifecycle, and that could not survive or reproduce in the absence of this habitat.</td>
</tr>
<tr>
<td>Forest-dwelling species</td>
<td>A species that may use a forest habitat for at least part of its lifecycle.</td>
</tr>
<tr>
<td>Forest health</td>
<td>The effects of the sum of the ecosystem processes (energy, nutrient, hydrological and biological processes) that together maintain the vitality of a forest ecosystem.</td>
</tr>
<tr>
<td>Forest land</td>
<td>Land carrying forest. Also called the forest estate. See Forest.</td>
</tr>
<tr>
<td>Forest management</td>
<td>A system of practices and activity for conservation, stewardship and productive use of forest land, aimed at fulfilling desired environmental, economic and social functions and objectives for the forest.</td>
</tr>
<tr>
<td>Forest management plan</td>
<td>A documented, long-term plan for a forest area that defines management goals, objectives and outcomes that are monitored and periodically reviewed, and that expressly includes the management of forest. Management plans can take many forms, including forest management plans; natural resource, environment and water catchment management plans that cover and include a focus on forests; and strategic management planning systems required for forest certification.</td>
</tr>
<tr>
<td>Forestry</td>
<td>The establishment and/or management of forests to meet desired goals, needs, and values, for human and environmental benefits.</td>
</tr>
<tr>
<td>Forestry operations</td>
<td>1. Work undertaken in the course of forest establishment and/or management for purposes including forest protection, public recreation, research, catchment protection and wood production. 2. Operational forest management activities related to wood production.</td>
</tr>
<tr>
<td>Formal reserve</td>
<td>See CAR reserve system.</td>
</tr>
<tr>
<td>Fragmentation</td>
<td>1. The degree to which forest exists in separate areas that are not spatially connected. 2. The process of loss of spatial connectivity between forest areas. See Connectivity.</td>
</tr>
<tr>
<td>Free-on-board value</td>
<td>The value of goods to the seller at the point of loading goods onto transport to overseas markets, excluding transport and insurance costs.</td>
</tr>
<tr>
<td>Term</td>
<td>Definition and use</td>
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<tr>
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</tr>
<tr>
<td>Geospatial</td>
<td>Relating to the relative position of features on the surface of the Earth.</td>
</tr>
<tr>
<td>Girder</td>
<td>A specialised, large-dimensioned, durable timber product, usually in squared-end form, that is used in building bridges, wharves and the framework of large buildings.</td>
</tr>
<tr>
<td>Global carbon cycle</td>
<td>The movement of carbon between different parts of the Earth, biosphere and atmosphere, including the storage of carbon in those parts.</td>
</tr>
<tr>
<td>Grafting</td>
<td>A method of plant propagation, whereby a bud, shoot or tissue of one plant is joined with another plant.</td>
</tr>
<tr>
<td>Greenhouse gas</td>
<td>Gas that affects the temperature of the Earth's surface and climate, including water vapour, ozone, chlorofluorocarbons, carbon dioxide, methane and nitrous oxide. National inventories report anthropogenic emissions and removals of greenhouse gases not controlled by the Montreal Protocol on Substances that Deplete the Ozone Layer.</td>
</tr>
<tr>
<td>Green Triangle</td>
<td>1. A region straddling the state border between south-west Victoria and south-east South Australia where there are significant areas of plantations, as well as wood-processing facilities. 2. The National Plantation Inventory region of this name.</td>
</tr>
<tr>
<td>Green wood</td>
<td>1. Wood freshly harvested or milled that has not been dried. 2. Wood from live sandalwood trees that meets a specified quality standard and size.</td>
</tr>
<tr>
<td>Gross calorific value</td>
<td>The amount of heat released by a fuel during combustion under standard conditions.</td>
</tr>
<tr>
<td>Gross domestic product</td>
<td>The total market value of goods and services produced in a country in a given period, after deducting the cost of intermediate goods and services used in production (but not deducting allowances for the consumption of fixed capital, or depreciation). The sum of the value added by each industry across the economy. See Industry value added.</td>
</tr>
<tr>
<td>Gross value of production</td>
<td>Value placed on production at the wholesale prices realised in the marketplace (where the marketplace refers to local consumption, export, or a point before value-adding by a secondary industry). Gross value of production provides a value for products that do not have a final market price.</td>
</tr>
<tr>
<td>Group selection</td>
<td>A native forest silvicultural system in which groups (small patches or stands) of trees are harvested, allowing for subsequent regeneration and leading to a forest comprising patches of differently aged trees. See Selection logging, Silvicultural practices / systems.</td>
</tr>
<tr>
<td>Growing stock</td>
<td>The living tree component of the standing volume in a forest at a given time. See Standing volume.</td>
</tr>
<tr>
<td>Gymnosperm</td>
<td>A plant, such as a cycad or conifer, the seeds of which are not enclosed within an ovary. See Conifer.</td>
</tr>
<tr>
<td>Habitat</td>
<td>The environment where a plant, animal or ecological community normally lives or occurs. See Ecological community.</td>
</tr>
<tr>
<td>Habitat tree</td>
<td>1. A tree (alive or dead) containing hollows or crevices, where animals can live, breed or shelter, retained in a harvested area to provide habitat. 2. A tree with artificially created hollows to provide suitable nesting or shelter sites for endangered fauna.</td>
</tr>
<tr>
<td>Hardwood</td>
<td>Wood or wood products from flowering trees (broad-leaved tree species), such as eucalypts, irrespective of the physical hardness of the wood; also used to refer to the trees that have such wood, and plantations of such trees.</td>
</tr>
<tr>
<td>Harvested wood products</td>
<td>Wood products originating from harvested trees and removed from harvest areas for use as-is or after further processing.</td>
</tr>
<tr>
<td>Harvesting</td>
<td>1. As part of forest management, cutting (felling) of trees to produce wood products. 2. Collection (gathering) of non-wood forest products.</td>
</tr>
<tr>
<td>Heathland</td>
<td>A shrubland habitat found mainly on low-quality acidic soils and characterised by open low-growing woody vegetation. It forms extensive and highly diverse communities across Australia in humid and sub-humid areas. Heathland above 2 metres tall can also be classified as ‘Other woody vegetation’. See Other woody vegetation, Shrubland.</td>
</tr>
<tr>
<td>Hybridisation</td>
<td>The process of crossing different breeds or cultivars of a single plant species, or crossing plants of different taxa (subspecies, species or genera). Hybridisation can occur naturally between closely related species.</td>
</tr>
<tr>
<td>IBRA (Interim Biogeographic Regionalisation for Australia)</td>
<td>A set of 85 bioregions within the Australian landmass, used as the basis for the National Reserve System’s planning framework and some state-based reporting. See National Reserve System.</td>
</tr>
<tr>
<td>Indicator</td>
<td>1. As used in Australia’s State of the Forests reports, an aspect of a criterion by which sustainable forest management may be assessed. 2. A quantitative or qualitative variable that can be measured or described and that, when observed periodically, demonstrates trends in forest condition or use. See Criterion, Montreal Process.</td>
</tr>
<tr>
<td>Indigenous (of people)</td>
<td>Of Aboriginal or Torres Strait Islander descent.</td>
</tr>
<tr>
<td>Indigenous (of species)</td>
<td>Species of plant or animal that occurs naturally in a specified region or country. See Endemic, Exotic.</td>
</tr>
<tr>
<td>Indigenous co-managed (of lands)</td>
<td>Lands that are owned and managed by non-Indigenous parties, and for which formal, legally binding agreements are in place to include Indigenous peoples and communities in the process of developing and implementing management plans. See Indigenous managed (of lands), Indigenous owned and managed (of lands), Other special rights (of lands).</td>
</tr>
<tr>
<td>Term</td>
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</tr>
<tr>
<td>Indigenous estate (land or forest)</td>
<td>Land or forest over which Indigenous peoples and communities have ownership, management or rights of use for customary purposes. See Indigenous co-managed (of lands), Indigenous managed (of lands), Indigenous owned and managed (of lands), Other special rights (of lands).</td>
</tr>
<tr>
<td>Indigenous Land Use Agreement</td>
<td>A voluntary agreement between Native Title parties and other people. Native title is the recognition in Australian law that Indigenous people have rights and interests to land that come from their traditional laws and customs.</td>
</tr>
<tr>
<td>Indigenous managed (of lands)</td>
<td>Lands that are managed but not owned by Indigenous peoples and communities (e.g. Crown reserves and leases), and lands that are owned by Indigenous peoples and communities for which there are formal shared management agreements with Australian or state and territory government agencies. See Indigenous co-managed (of lands), Indigenous owned and managed (of lands), Other special rights (of lands).</td>
</tr>
<tr>
<td>Indigenous owned and managed (of lands)</td>
<td>Freehold lands that are owned and managed by Indigenous peoples and communities. See Indigenous co-managed (of lands), Indigenous managed (of lands), Other special rights (of lands).</td>
</tr>
<tr>
<td>Indigenous Protected Area</td>
<td>An area of Indigenous-owned land or sea for which traditional owners have entered into an agreement with the Australian Government to promote biodiversity and cultural resource conservation. See Protected area.</td>
</tr>
<tr>
<td>Indirect employment</td>
<td>The number of jobs in secondary economic activity resulting directly from a primary economic activity, in provision of materials, supplies, goods and services to support the primary activity, and generated or supported in retail and service sectors by the spending of salaries and wages of individuals and families included in direct employment. See Direct employment.</td>
</tr>
<tr>
<td>Industrial plantation</td>
<td>See Commercial plantation.</td>
</tr>
<tr>
<td>Industry value added</td>
<td>The value added by an industry to the inputs used by that industry; the contribution of that industry to Gross domestic product. In the Australia’s State of the Forests Report series, ‘Industry value added’ excludes some downstream parts of the forestry, wood and paper products industries, particularly wholesaling, retailing and further value-adding (including the manufacturing of some commodities). See Gross domestic product.</td>
</tr>
<tr>
<td>Informal reserve</td>
<td>Reserve on public land protected through an administrative instrument by a public land management agency. See CAR reserve system.</td>
</tr>
<tr>
<td>In situ conservation</td>
<td>The conservation of species and genetic components of biological diversity in their natural habitats. See Ex situ conservation.</td>
</tr>
<tr>
<td>Integrated pest management</td>
<td>A pest control strategy that uses an array of complementary methods, such as natural predators and parasites, pest-resistant varieties, cultural practices, biological controls, various physical techniques and chemicals.</td>
</tr>
<tr>
<td>Introduced species</td>
<td>A species of plant or animal occurring outside its natural range (past or present) and dispersal potential—that is, outside the range it occupies naturally or could occupy without direct or indirect introduction or care by humans. See Exotic, Indigenous (of species).</td>
</tr>
<tr>
<td>Jurisdictions</td>
<td>The Commonwealth, states and territories of Australia, in each of which its own system of laws has authority.</td>
</tr>
<tr>
<td>Key threatening process</td>
<td>A threatening process listed under the Commonwealth Environment Protection and Biodiversity Conservation Act 1999. See Threatening process.</td>
</tr>
<tr>
<td>Land clearing</td>
<td>Removal of vegetation to convert land to another land use. See Broadscale clearing, Forest clearing.</td>
</tr>
<tr>
<td>Land tenure</td>
<td>Formal title, ownership or occupancy of land. See Crown land, Leasehold forest, Multiple-use public forest, Nature conservation reserve, Other Crown land, Private forest, Unresolved tenure.</td>
</tr>
<tr>
<td>Leasehold forest</td>
<td>Crown land held under leasehold title and generally privately managed. One of six tenure classes used to classify land in the National Forest Inventory. See Crown land, Leasehold title.</td>
</tr>
<tr>
<td>Leasehold title</td>
<td>Land title held under a contract by which one party conveys the land to another party for a specified time and purpose, usually in return for a periodic payment.</td>
</tr>
<tr>
<td>Legally binding instrument</td>
<td>An instrument, law, regulation, act or process that has associated legal rights, duties and/or requirements. See Non-legally binding instrument.</td>
</tr>
<tr>
<td>LiDAR (Light Detection and Ranging)</td>
<td>A technology that uses laser (light) pulses from (most commonly) an aircraft to collect information on terrain and vegetation features (such as tree height), based on the return time of pulses back to the sensor.</td>
</tr>
<tr>
<td>Litter</td>
<td>The uppermost layer of the forest floor consisting chiefly of fallen leaves, wooden debris and other decaying organic matter.</td>
</tr>
<tr>
<td>Log landing</td>
<td>A cleared area where harvested logs are laid or piled in stacks after being gathered from the site or sites of felling and before transport to a wood-processing facility.</td>
</tr>
<tr>
<td>Macroinvertebrate</td>
<td>Organism without a backbone, and of sufficient size to be seen without the aid of a microscope; examples are insects, shellfish and crustaceans.</td>
</tr>
<tr>
<td>Term</td>
<td>Definition and use</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| Malaleuca                                 | 1. A woody plant, usually a eucalypt, that is multi-stemmed from ground level.  
2. A forest dominated by malaleuca species.                                                                                                             |
| Managed investment scheme (MIS)           | A pooled investment scheme that satisfies the definition of ‘managed investment scheme’ in Section 9 of the Commonwealth Corporations Act 2001 and fulfils associated regulatory requirements; describes a wide range of investments in financial products, real estate, agriculture and plantation forestry. |
| Managed losses                            | Losses of carbon directly from forests to the atmosphere that are associated with the management of forests, for example prescribed burns or post-harvest burns.                                                |
| Management effectiveness                  | A measure of how well a protected area, or system of protected areas, is being managed in terms of protecting values and achieving goals and objectives, based on an audit process or evaluation. |
| Mangrove                                  | 1. A tree or shrub that normally grows above mean sea level in the intertidal zone of coastal environments and estuarine margins.  
2. The tidal habitat comprising mangrove trees and shrubs.  
3. A national forest type dominated by mangrove trees.                                                                                                       |
| Matting                                   | The practice of placing small (less than 5 centimetre diameter) woody material on extraction tracks before wood harvesting to protect soil against heavy vehicle traffic and to minimise soil erosion.  
See Cording.                                                                                                                                                   |
| Mature                                    | 1. A native forest growth stage in which trees are at maximum height with crowns at full lateral development.  
2. A native forest growth stage, generally taken as 80 or more years since disturbance. One of four growth stages used at the national level to describe the age of trees and stands of trees.  
See Apical dominance, Ecologically mature, Regeneration, Regrowth, Senescent.                                                                               |
| Medium-density fibreboard (MDF)           | See Fibreboard.                                                                                                                                                                                                   |
| Melaleuca                                 | As a national forest type, forest dominated by trees of the genus Melaleuca.                                                                                                                                       |
| Merchantability                           | With respect to a tree or tree species, suitability for commercial wood products. An emphasis is placed on commercial production of sawlogs or high-value equivalents.                                                  |
| Merchantable tree species                 | A tree species with known commercial uses for wood products, based on standards, technology or market conditions.  
See Non-merchantable tree species.                                                                                                                                |
| MODIS (Moderate-resolution Imaging        | A remote-sensing technology carried on two Earth Observing System satellites, capturing data covering the visual and infrared spectrum and imaging the entire Earth every 1–2 days.       |
| Spectroradiometer)                        |                                                                                                                                                                                                               |
| Monitoring                                | The periodic and systematic measurement and assessment of a value, attribute or indicator.                                                                                                                                 |
| Montane                                   | Ecosystems associated with mountain landscapes, alpine environments or higher elevations.                                                                                                                          |
Currently comprises 12 countries. Australia is a member of the Montreal Process Working Group.  
2. An initiative by the Montreal Process Working Group, comprising development and implementation of a comprehensive set of criteria and indicators for the conservation and sustainable management of temperate and boreal forests.  
See Criterion, Indicator.                                                                                                                                       |
| Mosaic (of vegetation)                    | Vegetation composed of patches of different types, arising from differences in soil or landform or periodic disturbance (such as fire or wood harvesting).                                                      |
| Multi-leaders (of trees)                  | A condition in trees where the apical dominance of the shoot at the top of the plant is lost, allowing lateral buds to grow into two or more stems or leaders.  
See Apical dominance.                                                                                                                                          |
| Multiple Lines of Evidence approach       | With respect to mapping forests, compilation of data from a range of different sources, followed by assessment and validation to arrive at a best-possible dataset for the attribute being mapped.                      |
| Multiple-use public forest                | Publicly owned state forest, timber reserves and other land on which a range of forest values – including provision of wood for harvest, water supply, conservation of biodiversity, recreation and environmental protection – are managed by state and territory government agencies in accordance with relevant Acts and regulations.  
One of six tenure classes used to classify land in the National Forest Inventory.                                                                                  |
| National Carbon Accounting System         | See National Greenhouse Gas Inventory.                                                                                                                                                                          |
| National Forest Inventory                 | Australia’s system of integrated national forest data, compiled from state, territory and Australian government agencies and independent, remotely sensed data using national standards and protocols for collation and reporting. Used to meet national and international forest-related reporting requirements.  
Includes native forests, commercial plantations and other forests.  
See National Plantation Inventory.                                                                                                                              |
| National forest type                      | Any one of eight broad forest types (Acacia, Callitris, Casuarina, Eucalypt, Mangrove, Melaleuca, Rainforest, and Other native forest) into which Australia’s native forests are classified in the National Forest Inventory.  
See National Forest Inventory.                                                                                                                                     |
| National Greenhouse Gas Inventory         | Australia’s system for measuring and monitoring changes in greenhouse gas emission and sequestration; includes modelling of carbon stocks and stock changes. Previously referred to as the National Carbon Accounting System. |
| National Plantation Inventory             | Australia’s national inventory of commercial forest plantations; a program of the National Forest Inventory.  
See National Forest Inventory.                                                                                                                                     |
<table>
<thead>
<tr>
<th>Term</th>
<th>Definition and use</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Reserve System</td>
<td>Australia’s network of protected areas, conserving examples of natural landscapes and native plants and animals. The National Reserve System comprises Commonwealth, state and territory reserves, and protected areas on private land, Indigenous land, and land managed by conservation organisations.</td>
</tr>
<tr>
<td>National Vegetation Information System (NVIS)</td>
<td>A system developed by the Commonwealth, state and territory governments that provides information on the extent and distribution of vegetation types.</td>
</tr>
<tr>
<td>Native (of species)</td>
<td>A species located within its natural range. See Non-native (of species).</td>
</tr>
<tr>
<td>Native forest</td>
<td>A National Forest Inventory forest category that comprises national forest types dominated by the suite of native tree species naturally associated with forest in that location and located within their natural range. ‘Native forest’ does not include forest reported in the other two national forest categories, ‘Commercial plantation’ and ‘Other forest’. See National Forest Inventory, National forest type, Commercial plantation, Other forest.</td>
</tr>
<tr>
<td>Nature conservation reserve</td>
<td>Crown land that is formally reserved for environmental, conservation and recreational purposes, including national parks, nature reserves, state and territory recreation and conservation areas, and some formal reserves in state forests as defined by jurisdictions. It does not include informal reserves and those pending gazettal. The commercial harvesting of wood and non-wood forest products is generally not permitted in nature conservation reserves. One of six tenure classes used to classify land in the National Forest Inventory. See Conservation reserve, Crown land.</td>
</tr>
<tr>
<td>Non-bole log</td>
<td>Log taken from the main trunk or branches of a tree above the crown break (the height of the first major branch). The non-bole material in mature trees is additional to the sustained yield.</td>
</tr>
<tr>
<td>Non-forest</td>
<td>Vegetation communities and habitats that are not forest, including marine environments, alpine meadows, other woody vegetation (including open woodland, heathland and shrubland), grassland, non-forest waterways and wetlands, rock outcrops, mudflats and farmland. See Forest, Habitat, Other woody vegetation, Vegetation community.</td>
</tr>
<tr>
<td>Non-forest land</td>
<td>Land that does not carry forest. See Forest land.</td>
</tr>
<tr>
<td>Non-legally binding instrument</td>
<td>A policy, recommendation or guideline, or a system of policies, recommendations and/or guidelines, with a defined intention that they be abided by to achieve a desired outcome, but without legal penalties for non-compliance. See Legally binding instrument.</td>
</tr>
<tr>
<td>Non-merchantable tree species</td>
<td>A tree species with no currently known commercial uses for wood products, based on standards, technology or market conditions. See Merchantable tree species.</td>
</tr>
<tr>
<td>Non-native (of species)</td>
<td>A species located outside its natural range. See Native (of species).</td>
</tr>
<tr>
<td>Non-production native forest</td>
<td>Native forest that is not managed for commercial wood production.</td>
</tr>
<tr>
<td>Non-vascular plant</td>
<td>A plant without a water-conducting system, including algae, liverworts and mosses.</td>
</tr>
<tr>
<td>Non-wood forest product</td>
<td>A product of biological origin, other than wood, derived from forests, including game animals, seeds, berries, chemical products, mushrooms, oils, foliage, medicinal plants, flowers, fodder, and wood and non-wood Indigenous artefacts.</td>
</tr>
<tr>
<td>Old-growth forest</td>
<td>Ecologically mature forest where the effects of disturbances are now negligible. See Ecologically mature, Mature.</td>
</tr>
<tr>
<td>Open forest</td>
<td>Forest in which tree crown cover ranges from over 50% to 80%. See Closed forest, Woodland forest, Crown cover.</td>
</tr>
<tr>
<td>Other Crown land</td>
<td>Crown land reserved for a variety of purposes, including utilities, scientific research, education, stock routes, mining, water-supply catchments, and use by Indigenous communities. Excludes leasehold forest, nature conservation reserve, and multiple-use public forest. One of six tenure classes used to classify land in the National Forest Inventory. See Crown land.</td>
</tr>
<tr>
<td>Other forest</td>
<td>A National Forest Inventory forest category that includes non-commercial plantations and planted forests that are not reported through the National Plantation Inventory but that satisfy the definition of forest. It includes farm forestry and agroforestry plantations, sandalwood plantations, environmental plantations, plantations within the reserve system, and plantations regarded as not commercially viable. Non-planted forests dominated by introduced species are also included in this category. ‘Other forest’ does not include forest reported in the other two national forest categories, ‘Commercial plantation’ and ‘Native forest’. See Forest, Commercial plantation, Native forest, Plantation.</td>
</tr>
<tr>
<td>Other log products</td>
<td>Low-quality sawlogs, girders, poles, piles, other logs that are not sawlogs (including sliced veneer sawlogs) or pulplogs, wood used in mines, split and round posts, bush sawn/hewn timber and sleepers, and fuelwood logs and firewood. This category can also include other log types not included elsewhere, such as peeled veneer logs. Differs from the category ‘Other wood products’ in including fuelwood logs and firewood. See Other wood products.</td>
</tr>
<tr>
<td>Other native forest</td>
<td>A National Forest Inventory native forest type comprising forest types of minor extent such as Agonis, Atalaya, Banksia, Hakea, Grevillea, Heterodendron, Leptospermum, Lepidostromon and Syncarpia (named after their dominant general), as well as native forests where the type is unknown. See National Forest Inventory, Native forest, Commercial plantation.</td>
</tr>
<tr>
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</tr>
<tr>
<td>-------------------------------------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Other special rights (of lands)</td>
<td>Lands subject to Native Title determinations and active Indigenous Land Use Agreements. These are independent of tenure and, in most cases, do not grant ownership or management rights of land to Indigenous peoples and communities, but can provide for the right to access areas of cultural significance or a legal requirement for consultation with local Indigenous peoples and communities before major development activities take place. See Indigenous co-managed (of lands), Indigenous managed (of lands), Indigenous owned and managed (of lands).</td>
</tr>
<tr>
<td>Other wood products</td>
<td>Low-quality sawlogs, girders, poles, piles, other logs that are not sawlogs (including sliced veneer sawlogs) or pullogs, wood used in mines, split and round posts, bush sawn/hewn timber and sleepers; but not fuelwood logs or firewood. This category can also include other log types not included elsewhere, such as peeled veneer logs. Differs from the category ‘Other log products’ in excluding fuelwood logs and firewood. See Other log products.</td>
</tr>
<tr>
<td>Other woody vegetation</td>
<td>A non-forest vegetation type: open woodland, heathland or shrubland generally containing a tree component with actual or potential tree height greater than 2 metres, but either actual or potential tree canopy crown cover of 5–20% or combined cover of shrubs and trees greater than 10% but cover of trees less than 5%. See Crown cover, Heathland, Shrubland.</td>
</tr>
<tr>
<td>Overstorey</td>
<td>1. The uppermost layer of foliage in a forest. 2. Trees occupying the uppermost layer in a forest of more than one layer (storey).</td>
</tr>
<tr>
<td>Parasitoid</td>
<td>An organism that spends a significant proportion of its life attached to or within a single host organism, and that ultimately kills (and often consumes) the host.</td>
</tr>
<tr>
<td>Particleboard</td>
<td>A panel product made by compressing wood particles (usually from softwood) and resin under heat and pressure, commonly used in flooring and joinery. See Fibreboard.</td>
</tr>
<tr>
<td>Patch (of vegetation)</td>
<td>Basic unit of a landscape vegetation mosaic.</td>
</tr>
<tr>
<td>Pattern (of vegetation)</td>
<td>The spatial arrangement or configuration of vegetation, including forest, across the landscape.</td>
</tr>
<tr>
<td>Peeler log</td>
<td>A log suitable for rotary peeling to produce veneer. See Veneer log.</td>
</tr>
<tr>
<td>Photosynthesis</td>
<td>A process in plants in which energy from sunlight and carbon dioxide from the air are used to produce plant matter, releasing oxygen.</td>
</tr>
<tr>
<td>Pile (wood product)</td>
<td>A round-wood product that meets specified marine durability requirements and is used principally for wharves and to support the framework of buildings in a marine environment.</td>
</tr>
<tr>
<td>Pine</td>
<td>1. A tree of the genus Pinus in the family Pinaceae. 2. Can also refer to a tree of other conifer families, e.g. Araucariaceae, Cupressaceae and Podocarpaceae. See Conifer, Softwood.</td>
</tr>
<tr>
<td>Planned fire</td>
<td>Fire started in accordance with a fire management plan or planned burning program, such as fuel-reduction burning. See Prescribed burn, Prescribed burning, Unplanned fire.</td>
</tr>
<tr>
<td>Plantation</td>
<td>Intensively managed stand of trees of either native or exotic species, created by the regular placement of seedlings or seeds. See Environmental planting, Commercial plantation, Other forest.</td>
</tr>
<tr>
<td>Plant community</td>
<td>See Community (definition 1), Vegetation community.</td>
</tr>
<tr>
<td>Planted forest</td>
<td>Forest comprising planted trees. For international reporting purposes, the ‘Commercial plantation’ and ‘Other forest’ National Forest Inventory categories (excluding forests of naturalised exotic species) comprise Australian ‘planted forest’.</td>
</tr>
<tr>
<td>Plywood</td>
<td>A panel product made by gluing together veneers of wood under heat and pressure, commonly used in construction and joinery. See Veneer.</td>
</tr>
<tr>
<td>Pole</td>
<td>A round-wood product generally treated with preservatives that is used to support transmission lines or as a structural member in pole-frame building construction.</td>
</tr>
<tr>
<td>Post</td>
<td>A wood-product from durable hardwood or treated softwood species that is used in an upright support role and meeting specifications for a range of functions.</td>
</tr>
<tr>
<td>Prescribed burn</td>
<td>Fire started in accordance with a fire management plan or planned burning program, such as fuel-reduction burning. See Planned fire, Prescribed burning.</td>
</tr>
<tr>
<td>Prescribed burning</td>
<td>The controlled application of fire under specified environmental conditions to a predetermined area and at a time, intensity and rate of spread required to attain planned resource management objectives; also referred to as the use of planned fire. See Planned fire, Prescribed burn.</td>
</tr>
<tr>
<td>Private forest</td>
<td>Land held under freehold title and typically under private ownership. It excludes leased Crown land, and includes land held under freehold title with special conditions attached for designated Indigenous communities. One of six tenure classes used to classify land in the National Forest Inventory.</td>
</tr>
<tr>
<td>Privately managed forest</td>
<td>Forest that is managed under private ownership (including private land that is owned and managed by the Crown), as well as privately managed leasehold forest.</td>
</tr>
<tr>
<td>Term</td>
<td>Definition and use</td>
</tr>
<tr>
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</tr>
</tbody>
</table>
| Productivity                  | 1. Capacity of an ecosystem to grow, produce or yield products.  
2. Amount of growth or product yield per unit area per unit time.  
3. Potential annual volume growth of trees per unit area at peak mean annual increment in fully stocked forest stands. |
| Protected area                 | 1. General definition: a geographically defined area that is designated or regulated and managed to achieve specific conservation objectives (Article 2, Convention on Biological Diversity).  
2. Specific definitions for reserve systems: an area of land and/or sea especially dedicated to the protection and maintenance of biological diversity, and of natural and associated cultural resources, and managed through legal or other effective means (IUCN definition); a clearly defined geographical space, recognised, dedicated and managed, through legal or other effective means, to achieve the long-term conservation of nature with associated ecosystem services and cultural values (revised IUCN definition).  
See Indigenous Protected Area. |
| Protected by prescription     | Areas where protection of values is prescribed through management prescriptions in codes of practice or management plans or harvesting plans. Includes components of the CAR reserve system that are not always mappable in advance of their detection, and/or where inclusion in dedicated or informal reserves is impractical, such as riparian vegetation, or rare, dispersed or fragmented values.  
See CAR reserve system. |
| Provenance                    | 1. The place of origin of a plant or animal.  
2. A set of individuals of a plant or animal species that originate from a particular location. |
| Public forest                 | See Publicly managed forest. |
| Public land                   | Land belonging to the Crown, i.e. a government, but excluding leasehold Crown land.  
| Publicly managed forest       | 1. Forest on public land for which management responsibility has generally been delegated to government agencies, including multiple-use public forests, nature conservation reserves and other Crown land, but excluding leasehold forest.  
2. Any forest on Crown land for which management responsibility has been delegated to government agencies, local governments or other instrumentalities.  
| Pulplag                       | A log harvested from a plantation or native forest stand that does not meet sawlog quality specifications and is designated to produce pulpwood.  
See Pulpwood. |
| Pulwood                       | Wood used to manufacture pulp or paper products. |
| Rainforest                    | A national forest type that is dominated by rainforest species, typically in moist to wet or sheltered environments, and with broad-leaved species. Can include areas with up to 30% cover of non-rainforest species, typically as emergents, but where rainforest species dominate the character of the site. |
| Reconstituted wood products   | Products manufactured from reconstituted wood fibres or flakes, originating from sources such as woodchips, sawdust, wood shavings or sawmill off-cuts. Includes fibreboard (particleboard, medium-density fibreboard, high-density fibreboard and hardboard) and laminated products (but not laminated veneer). |
| Recycling                     | The collection, separation and processing of previously used and recovered wood fibre and wood and paper products for manufacture into raw materials or new products. |
| Reforestation                 | Establishment of forest on land that historically contained forest but was converted to some other use, such as agriculture. The Kyoto Protocol and initiatives such as the Carbon Farming Initiative use specific definitions of reforestation.  
See Afforestation, Deforestation, Forest. |
| Regeneration                  | 1. A native forest growth stage that includes juvenile and sapling stages, where trees are very small and crowns exhibit apical dominance.  
2. A native forest growth stage generally taken as less than 20 years since disturbance. One of four growth stages used at the national level to describe the age of trees and stands of trees.  
3. New trees arising naturally or with human assistance after harvesting, fire or other causes have removed all or some of the overstorey.  
4. The process of managing a forest after disturbance to produce a regenerating forest stand.  
See Apical dominance, Mature, Regrowth, Senescent. |
| Regional Forest Agreement     | An agreement between the Australian Government and one of four state governments about the long-term management and use of forests in a region that meets the requirements listed in the Commonwealth Regional Forest Agreements Act 2002. |
| Regrowth                      | 1. A native forest growth stage in which trees generally have well-developed stems with crowns of small branches, and are actively growing in height and diameter but are below mature stand height.  
Apical dominance is apparent in vigorous trees.  
2. A native forest growth stage generally taken as 20–80 years since disturbance. One of four growth stages used at the national level to describe the age of trees and stands of trees.  
See Apical dominance, Mature, Regeneration, Senescent. |
<p>| Remote sensing                | Practice of acquiring and using data from satellites or aircraft to infer or measure land cover, land use and vegetation attributes. May be used in combination with ground surveys to check the accuracy of interpretation. |
| Re-sawing                     | Cutting timber along the grain to reduce larger boards into smaller sections. |
| Research and development      | Investigative work conducted to acquire knowledge, apply knowledge, develop or implement new products or procedures, or make significant improvements to existing products or procedures. |</p>
<table>
<thead>
<tr>
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<th>Definition and use</th>
</tr>
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<tbody>
<tr>
<td>Resilience (ecological and ecosystem)</td>
<td>The capacity of an ecological system to absorb and respond to shocks while retaining essentially the same function, structure and feedbacks, and therefore identity.</td>
</tr>
<tr>
<td>Resolution (image)</td>
<td>Measurement of the output quality or detail of an image, usually given as pixel size (the size of the square array of pixel cells in an image). Higher resolution means more image detail and smaller pixels; for example, an image with 1 m x 1 m pixels is of higher resolution than an image with 1,000 m x 1,000 m pixels.</td>
</tr>
<tr>
<td>Riparian zone</td>
<td>The interface between land and a flowing water body such as a stream or river. Plant communities along perennial watercourses are called riparian vegetation. See Community (definition 1), Vegetation community.</td>
</tr>
<tr>
<td>River regulation</td>
<td>The control or modification of the natural flow of a river or stream, most commonly by the use of dams.</td>
</tr>
<tr>
<td>Rotation</td>
<td>The planned number of years between regeneration or establishment of a stand of trees, and final harvesting. Rotation length is used in forest management planning to determine sustainable yield. See Harvesting, Regeneration.</td>
</tr>
<tr>
<td>Roundwood</td>
<td>Wood in round form, e.g. sawlogs, pulplogs, poles, piles, girders and posts.</td>
</tr>
<tr>
<td>Rural dieback</td>
<td>See Dieback.</td>
</tr>
<tr>
<td>Rut</td>
<td>A depression or groove worn into a snig track, path or road by machinery or erosion by water. Typically, rutting is reported in terms of rut depth. See Snig track.</td>
</tr>
<tr>
<td>Salinity / salinisation</td>
<td>The amount of salt in water or soil. Salinisation is the process of increasing salinity levels, such as occurs in soils and streams when saline groundwater rises towards the surface following clearing of forests for farmland.</td>
</tr>
<tr>
<td>Salvage harvesting</td>
<td>The harvest of trees that are dead or dying as a result of insect attack, disease, drought, fire or other factors.</td>
</tr>
<tr>
<td>Sandalwood</td>
<td>A native tree (e.g. Santalum spicatum, S. lanceolatum) or exotic tree (e.g. S. album) in the family Santalaceae, which yields fragrant timber and oil.</td>
</tr>
<tr>
<td>Savanna</td>
<td>A tropical or subtropical, woodland/grassland ecosystem with trees sufficiently widely spaced that adjacent tree canopies are not in contact. Areas of savanna where the canopy cover reaches or exceeds 20% are classified as woodland forest. Typically, rainfall is seasonal, and dry-season fires are frequent.</td>
</tr>
<tr>
<td>Sawlog</td>
<td>Log used to manufacture sawn timber. High-quality sawlogs are sawlogs meeting specified size and grade specifications (including amount of permissible defect). Low-quality sawlogs are sawlogs not meeting high-quality sawlog specifications.</td>
</tr>
<tr>
<td>Sawmll</td>
<td>A wood-processing facility in which logs are sawn by specialised machinery into timber such as boards.</td>
</tr>
<tr>
<td>Sawn timber</td>
<td>Timber produced by sawing logs into particular sizes; also called sawn wood.</td>
</tr>
<tr>
<td>Sawn wood</td>
<td>See Sawn timber.</td>
</tr>
<tr>
<td>Sclerophyll</td>
<td>A description of plants or vegetation that have tough leaves, such as eucalypts and acacias, adapted to dry or nutrient-poor conditions.</td>
</tr>
<tr>
<td>Seed orchard</td>
<td>A stand of trees planted and managed specifically for the production of genetically superior seeds.</td>
</tr>
<tr>
<td>Seed tree</td>
<td>A tree left standing in a harvested area for the purpose of providing seed for natural regeneration.</td>
</tr>
<tr>
<td>Seed-tree silviculture</td>
<td>A native forest silvicultural system in which trees are retained in a harvested area to provide seed for natural regeneration. See Silvicultural practices / systems.</td>
</tr>
<tr>
<td>Selection harvesting</td>
<td>A silvicultural system in which trees, typically above a certain specified size or growth stage, are removed singly or in groups, while other trees, such as regrowth, pole stems or habitat trees, are retained to maintain an uneven-aged forest. See Group selection, Silvicultural practices / systems, Single-tree / small group selection.</td>
</tr>
</tbody>
</table>
| Senescent                        | 1. A native forest growth stage older than mature, when irregular crowns form (sometimes referred to as ‘over-mature’).  
2. A native forest growth stage at various ages after 80 years since disturbance. One of four growth stages used at the national level to describe the age of trees and stands of trees.  
See Apical dominance, Mature, Regeneration, Regrowth. |
| Sensu lato (s.l.)                 | In the broad sense (of a taxon). See Taxon.                                                                                                                                                                         |
| Shelterwood                      | A native forest silvicultural system of securing natural tree regeneration under a partially harvested overstorey, which is subsequently removed by successive harvest(s) to allow seedlings and young regeneration to occupy the site. See Silvicultural practices / systems. |
| Shrubland                        | A non-forest vegetation type dominated by woody plants that are multi-stemmed or single-stemmed. Shrubland above 2 metres tall can also be classified as ‘Other woody vegetation’.  
See Heathland, Other woody vegetation. |
<p>| Siltation                        | Deposition of silt (fine soil and mineral matter), usually related to the degradation of watercourses due to soil erosion.                                                                                                                                                   |
| Silvicultural practices / systems | Methods used in managing forest establishment, composition, growth, harvesting and regeneration. See Aggregated retention, Clearfelling, Group selection, Seed-tree silviculture, Selection logging, Shelterwood, Silviculture, Single tree / small group selection, Vatable retention. |
| Silviculture                      | The art, science and technology of managing forests to achieve specified forest management objectives.                                                                                                             |</p>
<table>
<thead>
<tr>
<th>Term</th>
<th>Definition and use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single tree / small group selection</td>
<td>A native forest silvicultural system in which single trees or small groups of trees of various ages are harvested; a method suitable for promoting regeneration of shade-tolerant species, or growth of preferred species or individual trees. See Selection logging, Silvicultural practices / systems.</td>
</tr>
<tr>
<td>Skeletal soils</td>
<td>Shallow soils, usually on ridges or steep slopes.</td>
</tr>
<tr>
<td>Slash</td>
<td>Tree debris left on site following harvesting events.</td>
</tr>
<tr>
<td>Snig track</td>
<td>A track along which logs are pulled (snigged) or conveyed from the place where the tree is felled to a nearby log landing or point of loading; also known as an extraction track.</td>
</tr>
<tr>
<td>Softwood</td>
<td>Wood or wood products from conifers, irrespective of the physical softness of the timber; also used to refer to the trees that have such wood, and plantations of such trees. See Conifer.</td>
</tr>
<tr>
<td>Soil compaction</td>
<td>A reduction in soil volume without loss of soil, leading to poor soil aeration, reduced drainage, and impeded root development.</td>
</tr>
<tr>
<td>Soil degradation</td>
<td>Any phenomenon that lowers the current and/or future capacity of the soil to support existing forest vegetation and ecosystems.</td>
</tr>
<tr>
<td>Soil moisture hazard</td>
<td>The susceptibility of soil to erosion, combining soil properties, site and climate factors, and management practices. Site factors can include slope, aspect, vegetation and drainage.</td>
</tr>
<tr>
<td>Species diversity</td>
<td>The variety of species in an ecosystem. See Biodiversity, Ecosystem diversity, Genetic diversity.</td>
</tr>
<tr>
<td>Stand</td>
<td>A contiguous area within a forest that contains a cohort of trees that have a common set of characteristics. Normally a stand will be described or managed as a single unit.</td>
</tr>
<tr>
<td>Standing volume</td>
<td>The volume (excluding branches) above stump height of living or dead standing trees.</td>
</tr>
<tr>
<td>Statistical local area (SLA)</td>
<td>Base spatial unit at which the Australian Bureau of Statistics collects statistics across Australia.</td>
</tr>
<tr>
<td>Stocking</td>
<td>The density of a unit area of a forest stand measured as the number of trees, tree basal area, wood volume, or proportion of crown closure. Can apply to stocking of retained trees after harvest, or to the adequacy of seedling regeneration or planted stock. See Stand.</td>
</tr>
<tr>
<td>Subspecies</td>
<td>A taxonomically recognised subdivision of a species.</td>
</tr>
<tr>
<td>Sustainable development</td>
<td>Development that meets current needs without compromising the ability of future generations to meet their own needs.</td>
</tr>
</tbody>
</table>
| Sustainable forest management | 1. A set of objectives, activities and outcomes consistent with maintaining or improving a forest's ecological integrity and contributing to people's wellbeing now and in the future.  
2. The practice of stewardship and use of forests and forest lands in such a way, and at a rate, that maintains their biodiversity, productivity, regeneration capacity and vitality, and their potential to fulfil, now and in the future, relevant ecological, economic and social functions at local, national and global levels, and that does not cause damage to other ecosystems. See Ecologically sustainable forest management. |
<p>| Sustainable yield             | The yield of products (e.g. wood, water) from an area of forest that ensures that the functioning of the forest ecosystem as a whole is maintained and the flow of products can continue indefinitely under a given management strategy and suite of sustainable-use objectives. |
| Sustained yield               | In regards to wood, the yield that a forest area can produce continuously at a given intensity of management without impairment of the productivity of the land for a given period of time.                             |
| Taxon                         | A taxonomic unit in the classification of plants and animals (e.g. a subspecies, species or genus). Plural: taxa.                                                                                                       |
| Tenure                        | Title to land as controlled by legislation. See Land tenure.                                                                                                                                                           |
| Threat                        | A natural, human-induced or human-exacerbated factor or process that increases the risk to a species of population reduction or extinction, or that creates a significant risk to the persistence or integrity of an ecological community. See Ecological community, Threatening process. |
| Threatened ecological community | An ecological community listed in any one of the following categories defined in the Commonwealth Environment Protection and Biodiversity Conservation Act 1999: Critically endangered, endangered or vulnerable. See Critically endangered species / ecological community, Ecological community, Endangered species / ecological community, Vulnerable species / ecological community. |
| Threatened species            | A species of native flora or fauna that is listed in any one of the following categories defined in the Commonwealth Environment Protection and Biodiversity Conservation Act 1999: extinct, extinct in the wild, critically endangered, endangered or vulnerable. See Critically endangered species / ecological community, Endangered species / ecological community, Extinct, Extinct in the wild, Vulnerable species / ecological community. |</p>
<table>
<thead>
<tr>
<th>Term</th>
<th>Definition and use</th>
</tr>
</thead>
</table>
| Threatening process                            | 1. A process that threatens, or may threaten, the survival, abundance or evolutionary development of a native species or ecological community, as defined in the Commonwealth Environment Protection and Biodiversity Conservation Act 1999.  
   2. A natural, human-induced or human-exacerbated process that increases the risk to a species of population reduction or extinction, or is a significant risk to the persistence or integrity of an ecological community.  
   3. A process identified as a historical, current or future threat in listing or conservation advice of a threatened ecological community or species.  
   See Ecological community, Key threatening process, Threat.                                                                                                                                                                                                                       |
| Timber                                          | Products usually square or rectangular in cross-section milled from logs and that conform to industry grades, standards or specifications.                                                                                                                                                                                                                  |
| Traditional Owners                             | An Aboriginal and Torres Strait Islander group, people or community with traditional ownership of an area of country that has clear boundaries from the country of other groups. Traditional Owners have common social, cultural and spiritual affiliation and responsibility for their land, and usually have rights to forage on and guide management of that land.                                                                                                    |
| Turbidity                                       | The degree to which the clarity of water is reduced by suspended solids, silt, sediments or organic matter.                                                                                                                                                                                                                                           |
| Turnover                                        | Sales and service income for a business: the total value of sales of all goods and services, whether or not manufactured by the business (exclusive of goods and services tax, and not deducting the costs of inputs or intermediate goods and services).                                                                                                                                             |
| Understorey                                     | Layer or layers of vegetation beneath the main canopy or overstorey of a forest.                                                                                                                                                                                                                                                                               |
| Uneven-aged forest                             | Forest with trees of more than one age or age class present on the same site.                                                                                                                                                                                                                                                                               |
| Unplanned fire                                  | Fire started naturally (such as by lightning), accidentally or deliberately (such as by arson), but not in accordance with planned fire management prescriptions. See Bushfire, Planned fire, Wildfire.                                                                                                                                          |
| Unresolved tenure                               | Land where data are insufficient to determine land ownership status. One of six tenure classes used to classify land in the National Forest Inventory.                                                                                                                                                                                                 |
| Value-adding                                    | The process of converting timber or forest products into one or more higher-valued products.                                                                                                                                                                                                                                                                  |
| Variable retention                              | A native forest silvicultural system designed to meet both harvest objectives and ecological objectives through the retention of trees within an area planned for harvest, with the amount and configuration of retention dependent upon the silvicultural objectives for the stand; an alternative to clearfelling. See Aggregated retention, Clearfelling. Silvicultural practices / systems. |
| Vascular plant                                  | A plant with conducting tissue that transports water, mineral salts and sugars; includes clubmosses, horsetails, ferns, gymnosperms (including conifers) and angiosperms (flowering plants).                                                                                                                                                          |
| Vegetation community                            | A naturally occurring group of plant species inhabiting a particular area and interacting with each other, especially through biotic relationships, relatively independently of other plant communities. See Community (definition 1).                                                                                                                                       |
| Veneer                                          | Thin sheets of wood, usually thinner than 3 millimetres, which can be glued and pressed to make plywood, or glued and pressed onto core panels (typically wood, particleboard or medium-density fibreboard) to produce panels. Can be produced by slicing or peeling logs.                                                                                     |
| Veneer log                                       | A log suitable for producing sliced veneer sheets. Excludes peeler logs used to produce rotary-peeled veneer. See Peeler log.                                                                                                                                                                                                                                    |
| Water yield                                     | The amount of water that flows out of a catchment (drainage basin).                                                                                                                                                                                                                                                                                       |
| Watershed                                       | The dividing line between two catchments (drainage basins).                                                                                                                                                                                                                                                                                                 |
| Watertable                                      | The underground level at which the ground is saturated with water, where the water pressure is equal to atmospheric pressure.                                                                                                                                                                                                                             |
| Wet forest / wet sclerophyll forest             | Typically, eucalypt-dominated forest (not dry forest or rainforest) associated with moist (mesic) conditions, and with an understorey (if present) dominated or co-dominated by rainforest species or non-sclerophyll shrubs. See Dry forest / dry sclerophyll forest, Eucalypt, Rainforest, Sclerophyll. |
| Wetland                                         | Land consisting of swamps, marshes or mangroves. Forest wetlands are wetland ecosystems where forests are present. See Mangroves.                                                                                                                                                                                                                       |
| Wild harvest                                    | Commodity harvested from the wild, including farming of wildlife and feral animals.                                                                                                                                                                                                                                                                         |
| Wilderness                                      | Land that, together with its plant and animal communities, has not been substantially modified by, and is remote from, the influences of European settlement, or is capable of being restored to such a state; is of sufficient size to make its maintenance in such a state feasible; and can provide opportunities for solitude and self-reliant recreation. |
| Wildfire                                        | 1. A large destructive forest fire that spreads rapidly.  
   2. Fire started naturally (such as by lightning), accidentally or deliberately (such as by arson), but not in accordance with planned fire management prescriptions. See Bushfire, Unplanned fire.                                                                                                                    |
<table>
<thead>
<tr>
<th>Term</th>
<th>Definition and use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wildlife corridor</td>
<td>An area or strip of suitable habitat designed to connect wildlife populations that have been separated by human activities.</td>
</tr>
<tr>
<td>Wildling</td>
<td>A plant of a plantation tree species that has grown independently in forest or land adjoining the plantation.</td>
</tr>
<tr>
<td>Windthrow</td>
<td>Trees uprooted or broken as a result of severe wind associated with storms; the process of uprooting or breaking trees in this way.</td>
</tr>
<tr>
<td>Wood</td>
<td>The hard, fibrous, underbark component of the stem and/or branches of a tree, often suitable for conversion into products.</td>
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<tr>
<td>Woodchips</td>
<td>Small chips of wood produced from logs for use in fibre products or for conversion to pulp for paper manufacture.</td>
</tr>
<tr>
<td>Woodland forest</td>
<td>Forest in which the tree crown cover ranges from 20% to 50%.</td>
</tr>
<tr>
<td></td>
<td>See Closed forest, Open forest, Crown cover, Other woody vegetation.</td>
</tr>
</tbody>
</table>
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### Tables

#### CRITERION 1

<table>
<thead>
<tr>
<th>Table</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table 1.1</td>
<td>Australia’s forest area, by jurisdiction</td>
<td>47</td>
</tr>
<tr>
<td>Table 1.2</td>
<td>Australia’s forest areas by category and type</td>
<td>48</td>
</tr>
<tr>
<td>Table 1.3</td>
<td>Australia’s native forest area, by forest type and crown cover class</td>
<td>50</td>
</tr>
<tr>
<td>Table 1.4</td>
<td>Area of native forest, by crown cover class and jurisdiction</td>
<td>51</td>
</tr>
<tr>
<td>Table 1.5</td>
<td>Forest area, by forest type and jurisdiction</td>
<td>52</td>
</tr>
<tr>
<td>Table 1.6</td>
<td>Area of forest, by tenure and jurisdiction</td>
<td>55</td>
</tr>
<tr>
<td>Table 1.7</td>
<td>Area of native forest, by tenure and jurisdiction</td>
<td>55</td>
</tr>
<tr>
<td>Table 1.8</td>
<td>Area of forest, by tenure and crown cover</td>
<td>56</td>
</tr>
<tr>
<td>Table 1.9</td>
<td>Areas of forest in Regional Forest Agreement regions, by state</td>
<td>58</td>
</tr>
<tr>
<td>Table 1.10</td>
<td>Areas of forest in Regional Forest Agreement regions, by forest type</td>
<td>59</td>
</tr>
<tr>
<td>Table 1.11</td>
<td>Areas of forest by tenure in Regional Forest Agreement regions, by state</td>
<td>60</td>
</tr>
<tr>
<td>Table 1.12</td>
<td>Key MLE input datasets</td>
<td>63</td>
</tr>
<tr>
<td>Table 1.13</td>
<td>Data sources for forest area attribution</td>
<td>64</td>
</tr>
<tr>
<td>Table 1.14</td>
<td>Forest area differences between SOFR 2013 and SOFR 2018</td>
<td>65</td>
</tr>
<tr>
<td>Table 1.15</td>
<td>Old-growth forest areas in RFA regions (’000 hectares)</td>
<td>77</td>
</tr>
<tr>
<td>Table 1.16</td>
<td>Area of native forest types by tenure and growth stage (including old-growth forest), Tasmania (’000 hectares)</td>
<td>79</td>
</tr>
<tr>
<td>Table 1.17</td>
<td>Area of forest in the National Reserve System, by national forest category, tenure and jurisdiction</td>
<td>83</td>
</tr>
<tr>
<td>Table 1.18</td>
<td>Area of forest in the National Reserve System by IUCN protected area category, forest category and jurisdiction</td>
<td>85</td>
</tr>
<tr>
<td>Table 1.19</td>
<td>Area of forest in IUCN protected area categories, by forest type</td>
<td>86</td>
</tr>
<tr>
<td>Table 1.20</td>
<td>Forest in nature conservation reserve tenure</td>
<td>89</td>
</tr>
<tr>
<td>Table 1.21</td>
<td>Area of native forest in the CAR reserve system on public land in the Australian Capital Territory, by CAR reserve type</td>
<td>91</td>
</tr>
<tr>
<td>Table 1.22</td>
<td>Area of native forest in the CAR reserve system on public and private land in New South Wales, by CAR reserve type</td>
<td>91</td>
</tr>
<tr>
<td>Table 1.23</td>
<td>Area of native forest in the CAR reserve system on public and private land in Tasmania, by CAR reserve type</td>
<td>91</td>
</tr>
<tr>
<td>Table 1.24</td>
<td>Area of native forest in the CAR reserve system on public land in Victoria, by CAR reserve type</td>
<td>92</td>
</tr>
<tr>
<td>Table 1.25</td>
<td>Area of forest in the CAR reserve system on public land in Western Australia, by CAR reserve type</td>
<td>92</td>
</tr>
<tr>
<td>Table 1.26</td>
<td>Area of native forest in the CAR reserve system in RFA regions, on public and private land tenure</td>
<td>93</td>
</tr>
<tr>
<td>Table 1.27</td>
<td>Area of native forest in Australia’s Defence estate, by jurisdiction and CAR reserve type</td>
<td>94</td>
</tr>
<tr>
<td>Table 1.28</td>
<td>Area and type of forest on land protected by private conservation covenants</td>
<td>95</td>
</tr>
<tr>
<td>Table 1.29</td>
<td>Area of native forest in World Heritage Areas, by forest type and jurisdiction</td>
<td>96</td>
</tr>
<tr>
<td>Table 1.30</td>
<td>Area of native forest on Ramsar wetland sites, by forest type and jurisdiction</td>
<td>99</td>
</tr>
<tr>
<td>Table 1.31</td>
<td>Area of native forest on land managed for protection of biodiversity, by jurisdiction</td>
<td>100</td>
</tr>
<tr>
<td>Table 1.32</td>
<td>Native forest area by fragmentation class, by jurisdiction</td>
<td>103</td>
</tr>
<tr>
<td>Table 1.33</td>
<td>Native forest fragmentation, by jurisdiction</td>
<td>105</td>
</tr>
<tr>
<td>Table 1.34</td>
<td>Native forest fragmentation, by IBRA ecoregion</td>
<td>105</td>
</tr>
<tr>
<td>Table 1.35</td>
<td>Native forest patch size distribution, by jurisdiction</td>
<td>107</td>
</tr>
<tr>
<td>Table 1.36</td>
<td>Fragmentation statistics for Victoria’s forests, 2009–13</td>
<td>108</td>
</tr>
<tr>
<td>Table 1.37</td>
<td>Number of native forest-dwelling vertebrate fauna species, by jurisdiction, 2016, and across the five SOFR reporting periods</td>
<td>110</td>
</tr>
<tr>
<td>Table 1.38</td>
<td>Number of native forest-dependent vertebrate fauna species, by jurisdiction, 2016</td>
<td>111</td>
</tr>
<tr>
<td>Table 1.39</td>
<td>Habitat use of forest-dwelling and forest-dependent vertebrate species, 2016</td>
<td>111</td>
</tr>
<tr>
<td>Table 1.40</td>
<td>Number of forest-dwelling vascular flora species, by jurisdiction, 2016</td>
<td>112</td>
</tr>
<tr>
<td>Table 1.41</td>
<td>Assessed level of ecological knowledge on forest-dwelling species, by taxonomic group, 2016</td>
<td>114</td>
</tr>
<tr>
<td>Table 1.42</td>
<td>Listed key threatening processes affecting forest-dwelling threatened species</td>
<td>117</td>
</tr>
<tr>
<td>Table 1.43</td>
<td>Number of listed threatened forest-dwelling species and subspecies, by taxonomic group, 2016</td>
<td>118</td>
</tr>
<tr>
<td>Table 1.44</td>
<td>Proportion of listed threatened species that are forest-dwelling, by taxonomic group (%), 2016</td>
<td>118</td>
</tr>
<tr>
<td>Table 1.45</td>
<td>Threat rating and threat categories for forest-dwelling threatened species, as at 2016</td>
<td>122</td>
</tr>
<tr>
<td>Table 1.46</td>
<td>Forest-dwelling species on the national list of threatened species with changed rating during the SOFR 2018 reporting period</td>
<td>123</td>
</tr>
</tbody>
</table>
Table 4.1: Area of public forest managed primarily for protective functions including protection of soil and water values
Table 4.2: Area of forest in catchments managed specifically to supply water for human or industrial use
Table 4.3: Categories of the extent to which the regulatory framework requires the maintenance of soil values
Table 4.4: Assessed extent to which legally and non-legally binding instruments address the risk of soil erosion due to forest operations, road and trail works, and recreation activities
Table 4.5: Categories of the extent to which the risks of soil erosion are assessed in planning processes
Table 4.6: Area of multiple-use public forest where disturbance activities were planned, proportion assessed for risk of soil erosion, and assessed category
Table 4.7: Categories for the performance of forest managers in complying with prescribed mitigation measures for soil impacts
Table 4.8: Assessed compliance outcomes for soil impacts achieved in multiple-use public forests
Table 4.9: Categories of the extent to which a regulatory framework requires the maintenance of soil physical properties
Table 4.10: Assessed extent to which legally and non-legally binding instruments address the risk to soil physical properties from forest operations, road and trail works, fire management and recreation activities
Table 4.11: Categories of the extent to which soil physical properties are assessed in planning processes
Table 4.12: Area of multiple-use public forest where disturbance activities were planned, proportion assessed for risk to soil physical properties, and assessed category
Table 4.13: Categories of the extent to which regulatory frameworks aim to maintain water quantity after disturbances associated with forest management
Table 4.14: Assessed extent to which legally binding and non-legally binding instruments address the risk to water quantity from forest management activities in multiple-use public forests
Table 4.15: Categories of the extent to which the regulatory framework requires the maintenance of water quality
Table 4.16: Assessed extent to which legally and non-legally binding regulatory instruments address the risk to water quality from forest operations, road and trail works, fire management and recreation
Table 4.17: Categories of the extent to which risks to water quality are assessed in planning processes
Table 4.18: Proportion of disturbance activities in multiple-use public forest assessed for risk to water quality, and assessed category
Table 4.19: Compliance with environmental protection requirements on Crown and private land, NSW, 2011–12 to 2015–16
Table 4.20: Response of stream conditions parameters to forest harvesting, roading and plantation area

Table 5.1: Carbon stored in forests and harvested wood products, 2001 to 2016
Table 5.2: Carbon stored in forests and wood products by state and territory, 2016 (Mt C)
Table 5.3: Carbon accounts for Australia’s forests, 2001 to 2016 (Mt C)
Table 5.4: Carbon pools in forests
Table 5.5: Carbon input to, and output from, the harvested wood products pool in Australia (Mt C)
Table 5.6: Carbon stocks of the Great Barrier Reef catchments, 2001–16
Table 5.7: Carbon stocks of the Great Barrier Reef catchments, by carbon pool, 2016

Table 6.1: Turnover (sales and service income) in wood products industry, 2010–11 to 2015–16
Table 6.2: Turnover (sales and service income) in selected wood products industries, 2010–11 to 2015–16
Table 6.3: Forestry and wood products industries value added, 2010–11 to 2015–16
Table 6.4: Estimated gross value of production ($'000) of selected non-wood forest products, 2011–12 to 2015–16
Table 6.5: Crocodile egg harvest from the wild for commercial use, Northern Territory, 2011–12 to 2015–16
Table 6.6: Australian crocodile hide production and exports, 2011–12 to 2015–16
Table 6.7: Australian crocodile meat production and exports, 2011–12 to 2015–16
Table 6.8: Venison production and exports, and exports of deer hides, 2011–12 to 2015–16
Table 6.9: Velvet antler production and exports, 2011–12 to 2015–16
Table 6.10: Australian goat production, export and value, 2011–12 to 2015–16
Table 6.11: Number of game pigs killed, and game pig meat production and exports, 2011–12 to 2015–16
Table 6.12: Kangaroo products: production, export and value, Australia, 2011–12 to 2015–16
Table 6.13: Australian honey production, export and value, 2011–12 to 2015–16
Table 6.14: Tea-tree oil production and exports, Australia, 2011–12 and 2015–16
Table 6.15: Sandalwood plantation area (hectares), by tree ownership, Australia, as at June 2017
Table 6.16: Sandalwood production, Australia, 2011–12 to 2015–16
Table 6.17: Mud crab production, Queensland, 2005 to 2016
Table 6.18: Value of standing timber under state forest management, 2015–16
Table 6.19: Forest product imports, 2010–11 and 2015–16
Table 6.20: Forest product exports, 2010–11 and 2015–16
Table 6.21: Australian renewable energy consumption by fuel type, 2015–16
Table 6.22: Australian electricity generation from renewable sources by fuel type, 2015–16
Table 6.23: Paper and cardboard waste generated and recycled, by jurisdiction, 2014–15
Table 6.24: Weight of waste timber recycled, by jurisdiction, 2010–11 to 2015–16 (tonnes)
Table 6.25: Expenditure in New South Wales public native and plantation forests by Forestry Corporation of NSW, 2011–12 to 2015–16 ($ million)
Table 6.26: Expenditure in Queensland native forests by the Department of Agriculture and Fisheries, 2011–12 to 2015–16 ($ million)
Table 6.27: Expenditure on South Australia commercial plantation forests by ForestrySA, and management income received, 2011–12 to 2015–16 ($ million)
Table 6.28: Total expenses for operations and fire management by Forestry Tasmania, 2011–12 to 2015–16 ($ million)
Table 6.29: Expenditure on public land management categories, Victoria, 2011–12 to 2015–16 ($ million)
Table 6.30: Expenditure on forest management, Western Australia, 2011–12 to 2015–16 ($ million)
Table 6.31: Area of new commercial plantation establishment, 2011–12 to 2015–16 (hectares)
Table 6.32: Cost of commercial plantation area establishment and re-establishment, 2011–12 to 2015–16
Table 6.33: Investment and expenditure in selected Australian forest and wood products subsectors, 2010–11 to 2015–16 ($ million)
Table 6.34: Business R&D expenditure in the forest and wood products sector, and proportion of total business R&D expenditure, 2007–08 to 2015–16 ($ million)
Table 6.35: Distribution of R&D effort across headline national priorities developed by the FWP RD&E Forum
Table 6.36: Bushwalking visitors to major forested tourism regions
Table 6.37: Recreational facilities in public forests in the Australian Capital Territory, 2011–12 and 2015–16
Table 6.39: Recreational facilities in public forests in Queensland, 2015–16
Table 6.40: Visitor activity and facilities in land managed by ForestrySA, 2015–16
Table 6.41: Visitors to selected parks and reserves, Tasmania
Table 6.42: Visitor activity and facilities in state forests, Victoria, 2011–12 and 2015–16
Table 6.43: Datasets compiled on lands over which Indigenous people have use and rights
Table 6.44: Area of land and forest in the Indigenous estate, by Indigenous land ownership and management categories
Table 6.45: Indigenous heritage registers in each jurisdiction, and requirements for consultation
Table 6.46: Number and area of registered Indigenous heritage sites within forest, by jurisdiction
Table 6.47: International, national, and state and territory heritage registers for Australia
Table 6.48: Area of forest on non-Indigenous heritage-listed sites, by tenure and jurisdiction (‘000 hectares)
Table 6.49: Main legislative changes in Australia relevant to Indigenous land and forest, 2011 to 2016
Table 6.50: Employment in forestry subsectors, 2006 to 2016
Table 6.51: Work accidents by forestry activity, for five industry partners of the Australian Forest Operations Research Alliance, 2004–2014
Table 6.52: Characteristics of Local Government Areas dependent on forest and wood products industries
Table 6.53: Components and measures of capital resources index
Table 6.54: Forestry worker characteristics in Local Government Areas dependent on forest and wood products industries, 2011 and 2016
Table 6.55: Number of Indigenous people employed in conservation operations in Local Government Areas containing forested areas, 2016
Table 6.56: Characteristics of Indigenous communities and workers in Indigenous Locations with more than 0.8% of the Indigenous workforce employed in forest and wood products industries, 2016
Table 6.57: Completions of Forest and Wood Products (FWP) training package awards by Indigenous students, 2006 to 2016

Table 7.1: Key legislation relating to the conservation and sustainable management of Australia's forests, by jurisdiction, active during the SOFR 2018 reporting period 2011–16
Table 7.2: Examples of management plans prescribed in legislation for the conservation and sustainable management of Australian forests
Table 7.3: Forest areas covered by management plan (‘000 hectares)
Table 7.4: Forest management codes of practice, their legal status and coverage, by jurisdiction
Table 7.5: Key non-legislative policies, strategies and charters influencing the sustainable management of Australia's forests, July 2011 to June 2016
Table 7.6: Number of investigations completed by the Forest Practices Authority 2011–12 to 2015–16
Table 7.7: Certificates of compliance lodged with the Forest Practices Authority
Table 7.8: National completions in government-funded forestry-related vocational education and training (VET), 2006–16
Table 7.9: Assessment of understanding, planning, inputs, processes, outputs and outcomes associated with conservation and sustainable management of forests, 2011–16
Table 7.10: Estimated value of environmental assets, 2006–16 ($ billion)
Table 7.11: Status of five-yearly reviews of regional forest agreements (RFAs)
Table 7.12: Data coverage, currency, update frequency, capacity to report trends, and overall change in data quality since SOFR 2013
Table 7.13: Status of management plans covering forests in the National Reserve System, 2016
Table 7.14: Full-time-equivalent state and territory government employees engaged in forest-related research and development
Table 7.15: Full-time-equivalent research effort by government employees by type of activity, as reported by jurisdictions
Table 7.16: Research capacity for forestry and forest products in Australia, from Turner and Lambert (2016)
APPENDIX
Table A1: Alignment of the international Montreal Process indicators with Australia's national indicators used in SOFR 2018
### Figures

#### EXECUTIVE SUMMARY

- Australia’s forests, by forest category  
- Australia’s forest area, by jurisdiction  
- Australia’s forest area since 1990  
- Area of native forest managed for protection of biodiversity, 2016, by protection process  
- Distribution of listed threatened forest-dependent fauna species  
- Distribution of forest burnt by fire in the period 2011–12 to 2015–16, by fire frequency  
- Area of planned and unplanned forest fire  
- Carbon stored in forests and harvested wood products, 2001 to 2016  
- Australia’s commercial plantation area, 1989–90 to 2014–15  
- Ownership of Australia’s commercial plantations, 2014–15  
- Net harvestable area of multiple-use public native forest  
- Average annual area harvested from multiple-use public native forest, by silvicultural system  
- Volume of logs harvested from native forests and commercial plantations  
- Volume of hardwood and softwood sawlogs and pulplogs harvested from plantations  
- Volume of logs harvested from native forests across Australia  
- National average annual harvest and sustainable yield of sawlog from multiple-use public native forests  
- Total national employment in the forest sector  
- Australian university degree completions in forest-related studies  
- Distribution of the Indigenous forest estate by land ownership and management categories  
- Indigenous Locations, by proportion of the Indigenous workforce employed in forest and wood products industries, 2016  
- Perceptions of whether materials are ‘environmentally friendly’  
- Business research and development expenditure in the forest and wood products sector  

#### INTRODUCTION

- Figure I.i: Agro-ecological regions of Australia  
- Figure I.ii: Mean annual rainfall across Australia  
- Figure I.iii: Distribution of native eucalypt forest, by crown cover class  
- Figure I.iv: Eucalypt mallee, eucalypt non-mallee and non-eucalypt native forest  
- Figure I.v: National Plantation Inventory regions of Australia  
- Figure I.vi: Regional Forest Agreement and related regions in Australia  

#### CRITERION 1

- Figure 1.1: Australia’s forests, by forest type  
- Figure 1.2: Native forest crown cover classes, height classes, and area proportions  
- Figure 1.3: Native forest, by crown cover class  
- Figure 1.4: Australia’s forests, by tenure  
- Figure 1.5: Australia’s forest area change over time  
- Figure 1.6: Differences between forest mapping in SOFR 2018 and SOFR 2013 in the northern part of the Northern Territory  
- Figure 1.7: Example of an area reported as non-forest in SOFR 2013 but as forest in SOFR 2018 due to new datasets and high-resolution imagery. Mataranka, central Northern Territory  
- Figure 1.8: Example of an area reported as forest in SOFR 2013 but as non-forest in SOFR 2018 due to better floristics information and high-resolution imagery. Evans Head, north coast New South Wales  
- Figure 1.9: Example of an area reported as forest in SOFR 2013 but as non-forest in SOFR 2018 due to better floristics information and high-resolution imagery. Khancoban, New South Wales  
- Figure 1.10: Example of an area reported as forest in SOFR 2013 but as non-forest in SOFR 2018 due to application of an updated land-use mask. Medowie, north coast New South Wales  
- Figure 1.11: Example of an area reported as forest in SOFR 2013 but as non-forest in SOFR 2018 due to land clearing. St George, central southern Queensland  
- Figure 1.12: Example of an area reported as forest in SOFR 2013 but as non-forest in SOFR 2018 due to mining development or expansion. Weipa, north Queensland
Figure 1.14: Classification of growth stages in native forests

Figure 1.15: A systematic grid of cell size 0.5 hectare used to record the occurrence of stumps, landings, snig tracks and other disturbance features for the assessment of old-growth forest status in karri forest near Pemberton, Western Australia

Figure 1.16: Australia’s forests in the National Reserve System, by IUCN protected area category

Figure 1.17: Schematic diagram illustrating fragmentation metrics

Figure 1.18: Native forest fragmentation class distribution across Australia

Figure 1.19: Native forest fragmentation class distribution across south-western Australia

Figure 1.20: Native forest fragmentation class distribution across an area near Lake Burragorang (Warragamba Dam), south-west of Sydney, New South Wales

Figure 1.21: Native forest patch size distribution across Australia

Figure 1.22: Forest fragmentation in Victoria, 2013

Figure 1.23: Modelled distribution of listed threatened species

Figure 1.24: Modelled distribution of listed threatened forest ecological communities

Figure 1.25: Male Swift Parrot (Lathamus discolor)

Figure 1.26: Swift Parrot breeding range

Figure 1.27: Leadbeater’s possum (Gymnobelideus leadbeateri), which occurs in the montane ash wet forests of Victoria

Figure 1.28: Location of Leadbeater’s possum records in Victoria, including recent records from Arthur Rylah Institute’s targeted surveys

Figure 1.29: Distribution of black-footed tree-rat in the Northern Territory

Figure 1.30: Setting up a camera trap, Northern Territory

Figure 1.31: Black-footed tree-rat photographed by the camera trap in Figure 1.30

Figure 1.32: Beetle abundance at Warra site WR008J

Figure 1.33: Average bird species per survey site visit at Warra site WR008J

Figure 1.34: Annual population counts (1996–2017) of the south-eastern Red-tailed Black-cockatoo (Calyptrorhynchus banksii graptogyne)

Figure 1.35: Harp trapping for bats in an unlogged catchment of Chichester State Forest, NSW

Figure 1.36: Bat species monitored at Chichester State Forest, New South Wales, and response of annual survival to logging and climate extremes

Figure 1.37: Indicative distribution of the koala in Australia

Figure 1.38: Current and historic distribution of Macadamia habitat

Figure 1.39: Young progeny trial of northern sandalwood (Santalum lanceolatum) in north Queensland

Figure 1.40: Conservation planting of Camden white gum (Eucalyptus benthamii) at the National Arboretum, Canberra

CRITERION 2

Figure 2.1: Australia’s native forest available and suitable for commercial wood production, 2016

Figure 2.2: Australia’s native forests available and suitable for commercial wood production, 1960–2016

Figure 2.3: Silvicultural systems used in Australia’s native forests

Figure 2.4: Australia’s commercial plantation area, 1939–40 to 2011–15

Figure 2.5: Area of commercial plantation establishment and re-establishment by five-year period, to 2011–15

Figure 2.6: Area of Australia’s commercial plantation growing stock, 2014–15, by age-class

Figure 2.7: Area proportion of commercial plantation land and trees in ownership categories, 2014–15, by age-class

Figure 2.8: Average annual harvest and sustainable yield for multiple-use public native forests (including other native forests where timber rights are owned by the Crown) in Australia, by SOFR reporting period

Figure 2.9: Average annual harvest and sustainable yield for multiple-use public native forests in New South Wales, by SOFR reporting period

Figure 2.10: Average annual harvest and sustainable yield for multiple-use public native forests in Tasmania, by SOFR reporting period

Figure 2.11: Average annual harvest and sustainable yield for multiple-use public native forests in Victoria, by SOFR reporting period

Figure 2.12: Average annual harvest and sustainable yield for multiple-use public native forests in south-west Western Australia, by SOFR reporting period

Figure 2.13: Average annual harvest and allowable cut for state-owned native forests in Queensland, by SOFR reporting period

Figure 2.14: Average annual harvest volumes of special-species timbers from multiple-use public native forests, by SOFR reporting period

Figure 2.15: Average annual harvest by the Forest Products Commission of Western Australian sandalwood from public native forests, by SOFR reporting period

Figure 2.16: Average annual harvest of high-quality hardwood sawlogs from public plantations, by SOFR reporting period

Figure 2.17: Average annual sawlog harvest from private native forests, by SOFR reporting period

Figure 2.18: Average annual pulplog harvest from multiple-use public native forests, by SOFR reporting period

Figure 2.19: Average annual pulplog harvest from private native forests, by SOFR reporting period

Figure 2.20: Average annual harvest of ‘other wood products’ from public native forests, by SOFR reporting period

Figure 2.21: Average annual volume of sawlogs harvested from public and private native forests, by SOFR reporting period
Figure 2.2: Average annual volume of wood and wood products from native forests, by SOFR reporting period
Figure 2.3: Average annual value of wood and wood products from native forests, by SOFR reporting period
Figure 2.4: Annual harvest of sawlogs and pulplogs from Australia’s native forests and plantations, 2000–01 to 2015–16
Figure 2.5: Annual log harvest from Australia’s native forests, 2000–01 to 2015–16
Figure 2.6: Forecast sustainable yield of high-quality native forest sawlogs from public production forest in Australia, 2010–14 to 2050–54
Figure 2.7: Forecast log availability from native forest on public, leasehold and private land in Australia, 2015–19 to 2050–54
Figure 2.8: Commercial plantations and National Plantation Inventory regions
Figure 2.9: Forecast availability of plantation hardwood pulplogs, by National Plantation Inventory region
Figure 2.10: Forecast availability of plantation softwood sawlogs, by National Plantation Inventory region
Figure 2.11: Forecast availability of plantation softwood pulplogs, by National Plantation Inventory region

CRITERION 3

Figure 3.1: Proportion of annually monitored eucalypt plantations on public land in Tasmania that had populations of leaf beetles (Paropsis steno spp.) that exceeded the economic injury threshold
Figure 3.2: Proportion of the annual area of Pinus radiata plantation on public land in New South Wales that was affected by drought, pests and pathogens between 2004–05 and 2015–16
Figure 3.3: Mortality in a mid-rotation Eucalyptus nitens plantation in northern Tasmania following complete defoliation by Kirramyces leaf disease
Figure 3.4: Wind-damaged pine plantation at Byfield, Queensland, following Cyclone Marcia
Figure 3.5: Australia’s mean annual temperature anomaly from 1910–2016
Figure 3.6: Flux measurement sites in the TERN OzFlux facility that observed forest function during the 2013 heatwave
Figure 3.7: Known infections of Austropuccinia psidi with Australia as at June 2016
Figure 3.8: Dead Rhodomyrtus psidioide in natural forest stand in north coastal New South Wales infected with myrtle rust
Figure 3.9: Extensive branch dieback in susceptible species of the Myrtaceae in the mid- and understorey layers of a rust-infected subtropical wet sclerophyll forest at Tallebudgera Valley, Queensland
Figure 3.10: Aerial views of mangrove dieback in the Gulf of Carpentaria
Figure 3.11: Sea level and mean soil-pore salinity at Mangrove Bay, Western Australia
Figure 3.12: Distribution of bushfire seasonality across Australia
Figure 3.13: Area of planned and unplanned forest fire (’000 hectares) by year
Figure 3.14: Forest burnt, by number of fires, 2011-12 to 2015-16 (fold-out map)
Figure 3.15: Forest burnt, 2011–12 to 2015–16, by planned, unplanned, or planned and unplanned fire (fold-out map)
Figure 3.16: Cumulative area of planned and unplanned forest fire by tenure, 2011–12 to 2015–16
Figure 3.17: Widespread mortality of the above-ground parts of mature Eucalyptus megacarpa and E. patens in severely burnt forest near Willowdale
Figure 3.18: Immediate impact of severe fire in young forest rehabilitated following bauxite mining near Mt William, Western Australia
Figure 3.19: Plantation of Pinus pinaster burnt by high intensity crown fire
Figure 3.20: Pyrocumulonimbus cloud above the Waroona fire

CRITERION 5

Figure 5.1: Carbon density of Australia’s forests, 2016
Figure 5.2: Carbon stocks in Australian forests, 2001-2016
Figure 5.3: Annual areas of forest cleared, regrown, and recleared
Figure 5.4: Carbon stock changes due to fire and regrowth from fire, by region, 2001–16
Figure 5.5: Carbon in paper consumed, recycled and disposed to landfill annually, 1945–2016
Figure 5.6: Carbon density of land in the Great Barrier Reef catchments, 2016
Figure 5.7: A mountain ash (Eucalyptus regnans) log from a production site being weighed
Figure 5.8: The ForestHWP software interface
Figure 5.9: Long-term average results for mountain ash forest and forest products at the Victorian Central Highlands site, for each of the major carbon balance components, and alternative forest management and forest product scenarios
Figure 5.10: Aboriginal rangers in Arnhem Land undertake ground burning in the early dry season

CRITERION 6

Figure 6.1: Volume of logs harvested by log type, 2005–06 to 2015–16
Figure 6.2: Value of logs harvested by log type, 2005–06 to 2015–16
Figure 6.3: Volume of logs harvested, by jurisdiction, 2010–11 and 2015–16
Figure 6.4: Value of logs harvested, by jurisdiction, 2010–11 and 2015–16
Figure 6.5: Volume of sawnwood production, 2005–06 to 2015–16
Figure 6.6: Volume of wood-based panel production, 2005–06 to 2015–16
Figure 6.7: Weight of paper and paperboard production, 2005–06 to 2015–16
Figure 6.8: Value of standing timber in Australia, 2005–06 to 2015–16
### Boxes

<table>
<thead>
<tr>
<th>Box</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Box 1.1</td>
<td>National goals set out in Australia's National Forest Policy Statement</td>
<td>31</td>
</tr>
<tr>
<td>Box 2.1</td>
<td>State and territory legislation relevant to the harvesting of non-wood forest products</td>
<td>216</td>
</tr>
<tr>
<td>Box 3.1</td>
<td>Where and when do bushfires occur?</td>
<td>260</td>
</tr>
<tr>
<td>Box 5.1</td>
<td>The Emissions Reduction Fund</td>
<td>323</td>
</tr>
<tr>
<td>Box 6.1</td>
<td>Initiatives to reduce wood waste</td>
<td>372</td>
</tr>
<tr>
<td>Box 6.2</td>
<td>Forest-related employment categories used for the inter-sectoral comparisons</td>
<td>438</td>
</tr>
<tr>
<td>Box 6.3</td>
<td>Indicating resilience – community adaptive capacity</td>
<td>446</td>
</tr>
<tr>
<td>Box 6.4</td>
<td>Individual forest industry workers – resilience</td>
<td>447</td>
</tr>
</tbody>
</table>
Case studies

**CRITERION 1**
Case study 1.1: Updating the extent of jarrah and karri old-growth forests 80
Case study 1.2: Breeding success of the Swift Parrot (*Lathamus discolor*) and effects of predation by sugar gliders (*Petaurus breviceps*) 129
Case study 1.3: Targeted surveys to improve conservation of Leadbeater’s possum (*Gymnobelideus leadbeateri*) 131
Case study 1.4: Use of camera traps for assessing the presence of the black-footed tree-rat (*Mesembrionys gouldii*) 133
Case study 1.5: South-eastern Red-tailed Black-cockatoo 140
Case study 1.6: Comparing bat populations between unlogged and regrowth forests 141
Case study 1.7: Monitoring koala populations in Queensland 144
Case study 1.8: Researching the response of koalas to wood harvesting in New South Wales 145
Case study 1.9: Monitoring the northern bettong *Bettongia tropica* in the Queensland Wet Tropics bioregion 146
Case study 1.10: Genetic conservation of *Macadamia* and its importance to the macadamia nut industry 151
Case study 1.11: Tree breeding work on northern sandalwood (*Santalum lanceolatum*) 162
Case study 1.12: Conservation planting of Camden white gum (*Eucalyptus benthamii*) 163

**CRITERION 2**
Case study 2.1: Myrtle rust 253
Case study 2.2: Mangrove dieback 255
Case study 2.3: National Burning Project: Prescribed Burning Guidelines and Frameworks 261
Case study 2.4: The Waroona bushfire, south-west Western Australia 271

**CRITERION 3**
Case study 3.1: Soil erosion knowledge base 285
Case study 3.2: The impact of strip thinning on water yield in Crotty Creek catchment, Central Highlands of Victoria 299
Case study 3.3: Effect of upstream forest management on stream ecosystem condition in middle catchment reaches in Tasmania 308

**CRITERION 4**
Case study 4.1: Carbon stocks in the Great Barrier Reef catchment zone 326
Case study 4.2: Carbon dynamics of managed native forests in Australia 327
Case study 4.3: Western Arnhem Land Fire Abatement (WALFA) project 330

**CRITERION 5**
Case study 5.1: Commercial harvest of Kakadu plum 351
Case study 5.2: Valuation of water from forested catchments 355
Case study 5.3: Queensland Government research investment and capacity 385
Case study 5.4: Recent innovations for forest inventory and data capture 386
Case study 5.5: Hydrowood – taking underwater harvesting from an idea to commercialisation 387
Case study 5.6: Kowen Forest 393
Case study 5.7: Forest Sky Pier, Orara East State Forest 394
Case study 5.8: Safeguarding Aboriginal heritage in Western Australian forests 405
Case study 5.9: West Kimberley National Heritage Place 409
Case study 5.10: Forest harvesting heritage in Tallaganda State Forest 411
Case study 5.11: Warddeken Indigenous Protected Area 416
Case study 5.12: Forestry Corporation of New South Wales engagement with the Aboriginal community 424
Case study 5.13: Indigenous forestry 425
Case study 5.14: Gumgali Track 426
Case study 5.15: Cultural burning 451
Case study 5.16: Cultural heritage assessments 452

562 Australia’s State of the Forests Report 2018
### CRITERION 7

| Case study 7.1: | Special Areas Strategic Plan of Management 2015, New South Wales | 466 |
| Case study 7.2: | Forest Management Plan, Western Australia | 467 |
| Case study 7.3: | Monitoring and compliance of native forest operations in Tasmania, 2011-16 | 480 |
| Case study 7.4: | Environmental Stewardship Program and Box Gum Grassy Woodland Monitoring Project | 488 |
| Case study 7.5: | Government investment related to forest conservation and resource management in New South Wales | 489 |
| Case study 7.6: | Private forest management in Tasmania | 490 |
| Case study 7.7: | The ForestCheck project: integrated biodiversity monitoring in jarrah forest | 496 |
| Case study 7.8: | Warra Long-Term Ecological Research site | 505 |
Index

A

ABARES see Australian Bureau of Agricultural and Resource Economics and Sciences
abiogenic agents and processes, 514, 517, 520
Aboriginal and Torres Strait Islander people see Indigenous Australians
Aboriginal Land Council lands, New South Wales, 417
Aboriginal lands trusts, 21, 412, 417–420 see also Indigenous estate
above-ground biomass, 10, 313, 315, 322, 517
ABS see Australian Bureau of Statistics
Acacia, 154, 160, 184, 517
  A. aneura, 32
  A. crassicarpa, 158, 160
  A. harpophylla, 32, 127
  A. mangium, 158, 160, 184
  A. melanoxylon, 32, 154, 387
  A. pataczekii, 154
Acacia forest
  area, 3, 45, 49–50
  area by crown cover class, 52
  area by IUCN protected-area categories, 84, 86
  area by jurisdiction, 53, 54
  area in RFA regions, 58, 59
  area in World Heritage areas, 96
  area under private conservation covenant, 95
description, 32, 49
distribution, 32, 47
dominance, 30
Access and Benefit-sharing Clearing-House, 161
acidification, 128, 322, 517
acoustic detection, 145
adaptive capacity, 446, 517 see also resilience
Aenetus, 244
aerial photogrammetry, 386
African mahogany (Khaya senegalensis), 184, 300
age classes, 179, 180–182, 183, 517
age of workers see under employment
agency names, xi
Agania fragans (fragronia), 349
Agonis (forest type), 35
Agriculture Senior Officials Committee, 472
agro-ecological regions of Australia, 32
agroforestry, 37, 57, 517 see also farm forestry
Aichi Biodiversity Targets, 5, 81, 98
algal see non-vascular plant species
Allocasuarina, 154
  A. decaisneana, 33
  A. luellmannii, 160
Allosyncarpia ternata (Anbinik), 417
allowable cut, defined, 517 see also sustainable yield
alpine ash (Eucalyptus delegatensis), 34, 299
alpine cider gum (Eucalyptus archeri), 160
Amamoor National Park, Queensland, 423
amenity services see recreation and tourism
amphibian species, 111
ecological knowledge of, 109, 113, 114
monitoring, 136–139
threatened, 117, 118
Angaaku Piljantjatjara Yankunytjatjara lands, 418
Anbinik (Allosyncarpia ternata), 417
Angophora, 33, 49, 520
animal products, 215, 218–222, 343, 344–348, 350
Appliognathus species, 244
Anseranas semipalmata (Magpie Goose), 215
Anthochaera phrygia (Regent Honeyeater), 123
apliary products see beekeeping industry; honey production
Araucaria cunninghamii (hoop pine), 158, 184
arboarea, 7, 150, 153, 160, 517
archaeological sites and objects see heritage sites, non-Indigenous; Indigenous heritage sites
Armillaria species, 246
Arnhem Land fire abatement projects, 330–331
aspirational values, 413
Astacopsis gouldi (giant freshwater crayfish), 309
Atalaya (forest type), 35
Atherosperma moschatum (sassafras), 387
Atlas of Living Australia, 139
attitudinal values see community attitudes
 Australasian Fire and Emergencies Authorities Council, 258
Australia state of the environment report (SoE), 26
Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES), 4, 40, 46, 62, 180, 497, 503
Australian Bureau of Statistics (ABS), 25, 352, 379, 381, 382–383, 431, 435, 445, 482, 483
Australia Centre for International Agricultural Research (ACIAR), 161, 162, 503
Australian Collaborative Land Use and Management Program, 30
Australian Forest Certification Scheme, 476 see also Responsible Wood Certification Scheme
Australian Forest Products Association, 489
Australian Government, 38 see also policy frameworks
Australian National University, 129–130, 488
Fenner School of Environment and Society, 510
Australian plantation statistics, 57
Australian PlantBank, 154
Australian Pulp and Paper Institute, 510
Australian Reptiles Online Database, 139
Australian Research Council, 510
Centre for Forest Value, 510
Australian sandalwood (Santalum spicatum), 158, 160, 195, 217, 348, 349
Australian Seed Bank Partnership, 150, 155
Australian Tree Seed Centre (ATSC), 154, 155, 160, 163
Australian Wildlife Conservancy, 94–95, 146
Australia’s Biodiversity Conservation Strategy 2010–2030, 116, 150
Australia’s Native Vegetation Framework, 116
Australia’s State of the Forests Report (SOFR) series, 1, 26–27, 29, 40–41, 497–499
2018 process, 40
alignment with other published data, 46, 57, 61
availability, 41
coverage, 40
data see data and datasets
indicators and reporting format, 40, 513–516
SOFR 2018 and 2013 differences, 27, 45, 46, 57, 59, 60–62, 64–74, 103, 105, 262, 313, 315, 497–499
see also ‘state of the forests’ reports
Australia’s Strategy for the National Reserve System 2009–2030, 500
Austropuccinia psidii see myrtle rust (Austropuccinia psidii)
autumn gum moth (Mnesampela privata), 244
Avicennia marina (white mangrove or grey mangrove), 34, 255

B
Backhousia citriodora (lemon myrtle), 154, 158, 349, 350
Bandjalang people, 451
Banksia (forest type), 35
Barber’s gum (Eucalyptus barberi), 154
bark beetles (ips spp.), 244
barramundi (Lates calcarifer), 136
bats, 117, 136, 161–142
populations, 141–142
beeeaking industry, 18, 222, 347–348, 357, 367 see also honey production
beeswax, 343, 344, 347
beetles, 113, 135–136, 243–244, 245, 259
Bell-Miner–Associated Dieback, 243, 245, 247
Bell Miner (Manorina melanophrys), 243, 247
below-ground biomass, 10, 313, 315, 322, 517
Bennet’s wallaby (Macropus rufogriseus), 136, 218, 220, 346
Bettongia tropica (northern bettong), 136, 146
biodiversity, 5–7
in Australia (number of species), 5, 109, 110–111
defined, 517
ecosystem diversity indicators, 44, 513
effects of climate change, 148
genetic diversity indicators, 44, 513
monitoring programs see monitoring species diversity indicators, 44, 513
biodiversity conservation
areas managed for protection of biodiversity, 5, 10, 55, 81, 98–100
indicators, 513
Indigenous peoples’ contribution, 423–424
international agreements, 161 see also Convention on Biological Diversity; International Union for Conservation of Nature (IUCN); Montreal Process; Ramsar wetland sites; World Heritage List
international collaboration and engagement, 161
international targets, 5, 81, 98
mechanisms, 82
threatened species see threatened species
see also forest conservation; genetic resources; nature conservation reserves; protected areas
biodiversity plantings, 154, 155
biological control agents, 244
biological diversity see biodiversity
biomass, 314, 315, 329
above ground, 10, 313, 315, 322, 517
below ground, 10, 313, 315, 322
biomass-to-energy projects, 385, 486
carbon pools in forests, 322
defined, 517
energy from woody biomass, 324
forest biomass density, 316, 317
living, 322
pellets, 372, 486
renewable energy source, 366
see also wood waste
biome, 84, 517
bioregion, 517
biosecurity, 11, 240, 504
biotic, defined, 517
bird species, 111
ecological knowledge of, 109, 113, 114
endemic, 109
monitoring, 135, 136–140, 496
threatened, 118
black-footed tree-rat (Mesembrinium gouldii), 126, 133–134
black gum (Eucalyptus ovata), 129, 160
blackberry (Rubus species), 247
blackbutt (Eucalyptus pilularis), 34, 148, 158, 160, 184
blackwood (Acacia melanoxylon), 32, 154
blue gum see Sydney blue gum; Tasmanian blue gum
blue-leaved mallee (Eucalyptus polybractea), 160, 348
boronia oil, 349
Boronia species, 349
botanic gardens, 150, 154–155
Botryosphaeria species, 247
Box Gum Grassy Woodland Monitoring Project, 488
brigalow (Acacia harpophylla), 32, 127
broad-leaved paperbark (Melaleuca viridiflora), 34
broad-toothed rat (Mastacomyx fuscus mordicus), 126
broadscale clearing, 102, 517 see also forest clearing
Brooker’s gum (Eucalyptus brookeriana), 154
brown salwood (Acacia mangium), 158, 160
brown stringybark (Eucalyptus baxteri), 140
Bruxner Park Flora Reserve, 394
buffel grass (Cenchrus ciliaris), 247, 249
Bufo marinus (cane toad) see Rhinella marina (cane toad)
buloke (Allocasuarina luehmannii), 140
Bundian Way, 424
bush foods, 222, 344, 350–351, 367
source species, 350
Bush Heritage Australia, 94, 95
bushfire, 75, 76, 257–259, 260, 262–270, 530
case studies, 269–270
defined, 518
distribution, 272
emission of carbon dioxide, 322, 330
future occurrence and severity, 259
greenhouse gas emissions, 330–331
impact on old-growth forest, 8, 75, 78
impact on sustainable yield, 17, 191
loss of carbon stocks, 320–321
policy and management, 258
research, 258, 504
seasonality, 260
soil erosion post-fire, 288
water yield effects, 274, 295, 298, 299
see also fire
Bushfire and Natural Hazards Cooperative Research Centre, 258, 503, 504
Bushfire Cooperative Research Centre, 504
bushwalking see recreation and tourism
Cabinet rainforest timbers in NSW, 194–195 see also special-species timbers

Callitris, 518
C. columnaris, 349
C. glaucophylla, 33

Callitris forest, 33, 49
area, 50
area by crown cover class, 52
area by IUCN protected-area categories, 86
area by jurisdiction, 54
area in RFA regions, 59
area in World Heritage areas, 96
description, 33
distribution, 33, 47

Callitris banksii graptogyne (Red-tailed Black-cockatoo), 139, 140

Calyptorhynchus banksii graptogyne (Red-tailed Black-cockatoo), 139, 140

Camden white gum (Eucalyptus benthamii), 154, 163
camera trapping, 131, 133–134
cane toad (Rhinella marina, previously Bufo marinus), 136
canopy, 30, 518

CAPAD see Collaborative Australian Protected Areas Database

Cape York Peninsula Aboriginal Lands National Park, 89

cape york sandalwood, 160, 162

Capital Resources Index, 446, 447

CARE reserve see Comprehensive, Adequate and Representative (CAR) reserve system
carbon accounting, 313, 314–315, 518
carbon credits, 323, 331, 354, 486–487, 517, 518
carbon cycle, 312–313
community understanding, 428–429
forest contribution (indicators), 514
global, 312, 314, 428, 467, 522
role of forests, 313, 314, 327–329
see also carbon stocks
carbon dioxide, 10, 250–251, 312, 314, 315, 323
bushfire emissions, 322, 330
carbon dioxide equivalent, defined, 330, 518
enrichment research, 510
exchange (measurement), 505
from oxidation of debris, 320, 322

Carbon Farming Initiative (CFI), 323, 331, 354, 486

carbon sequestration
defined, 518
net sequestration, 10, 313, 314
projects, 323
carbon stocks, 316–329, 518
above-ground biomass, 10, 313, 322
accounting, 313, 314–315
below-ground biomass, 10, 313, 322
carbon density in forests, 316, 317
carbon dynamics of managed native forests, 327–329
carbon pools in forests, 322
changes over time, 314, 318–321
community understanding, 428–429
defined, 518
differences between SOFR 2013 and SOFR 2018, 313, 315
in forests, 10, 313, 314, 315, 316–323, 327–329
in Great Barrier Reef catchment zone, 326–327
in landfill, 10, 313, 323–324
loss caused by fire, 320–321
total stock, 313
in wood and wood products, 10, 313, 314, 315, 316–317, 321, 323–324

Caribbean pine (Pinus caribaea), 184
Caring for our Country program, 137, 146, 249, 416, 487

Casuarina, 154, 518
C. cristata, 33
C. cunninghamiana, 33
C. obesa, 160

Casuarina forest
area, 50
area by crown cover class, 52
area by IUCN protected-area categories, 86
area by jurisdiction, 54
area in RFA regions, 59
area in World Heritage areas, 96
description, 33
distribution, 33, 47

catchments, 274, 277–278, 298–300, 309

carbon stocks in Great Barrier Reef catchment zone, 326–327
management goals, 31
valuation of water from, 355–356
see also water resources conservation and maintenance
cats see vertebrate pests
celery-top pine (Phyllocladus aspleniiifolius), 387
Cenchrus ciliaris (buffel grass), 247, 249
Centre for Forest Value, 510
Centre for Future Timber Structures, 385, 510
Centre for Invasive Species Solution, 242
certified forest, 518 see also forest certification

CFI see Carbon Farming Initiative
chain-of-custody certificates, 26, 387, 471, 476, 477, 518
Chalara australis (myrtle wilt), 246
Chalinolobus morio (chocolate wattled bat), 141–142
Christmas beetles (Anoplognathus spp.), 244
Christmas Island forest skink (Emoia nativitatis), 117
Christmas Island pipistrelle (Pipistrellus murrayi), 117

cinnamon fungus see Phytophthora cinnamomoni

clearfelling
area harvested, 14, 177, 178
defined, 518
erosion and sediment control, 287
impact on stream ecosystems, 309
regeneration after harvest, 228–229

clearing see forest clearing; land clearing; land-use change
climate change, 127, 250–252
biodiversity conservation, 155
community attitudes, 428–429
and harvest volume calculations, 187
Intergovernmental Panel on Climate Change, 315
potential effects on forest productivity, 250
research and development, 504, 505, 506, 507, 511
UN Framework Convention, 10, 314, 315, 500
climate change impacts
bushfire occurrence and severity, 259
on forest health, 238, 250–252
on genetic variation, 148
mitigation of, 141, 150, 154, 251, 327–329
species range, 251

climatic events
drought see drought
and forest health, 239, 240, 255
heatwaves, 239, 247, 250, 252
threat to species and communities, 119, 127
tropical cyclones, 11, 158, 240, 244, 249
closed forest
- area, 51, 56
- area by jurisdiction, 51, 53
- area by native forest type, 52
- area by tenure, 56
- crown cover, 30, 50, 51
- defined, 30, 518
- distribution, 52
- forest-dwelling and forest-dependent vertebrate species, 111

COAG see Council of Australian Governments

- compliance monitoring, 475–476, 480
- defined, 518
- see also legislation and legal/non-legally binding instruments

codes of forest practice, by jurisdiction
- Tasmania, 154
- Victoria, 154
- see also forest management

Collaborative Australian Protected Areas Database (CAPAD), 82, 95, 500, 501

combined plantations, 35–36, 57
- age-classes, 179, 180–182, 183
- area, 2, 12, 45, 46, 57, 179–182, 212
- area by forest type, 50, 54
- area by IUCN protected-area categories, 85–86
- area by jurisdiction, 49, 54, 57
- area by tenure, 56, 57
- area in RFA regions, 58, 59
- defined, 30, 518
- distribution, 2, 47
- establishment/re-establishment, 24, 180–181, 224, 229–235, 377–378
- forecast plantation log availability, 209–214
- genetic resources, 44
- harvest value, 17
- harvest volume see harvest volume (forest wood products)
- investment in, 24, 377–378, 485
- national goals, 31
- ownership of land, 38, 183–184
- ownership of trees, 12, 13, 24, 38, 183
- productivity improvement, 44
- rate of re-establishment, 12
- species see plantation species types, 49
- value of standing timber, 352, 353–354, 483, 484
- see also hardwood plantations; softwood plantations
- common brushtail possum (Trichosurus vulpecula), 136, 144, 220, 221, 222, 243
- common wallaroo or euro (Macropus robustus), 218, 219, 220, 346
- Commonwealth Heritage List, 406, 407
- Commonwealth Scientific and Industrial Research Organisation see CSIRO
- communities, forest-dependent see forest-dependent human communities
- community attitudes
- acceptability of plantation forestry, 22
- carbon storage, 428–429
- climate change, 428–429
- to environmental friendliness of materials, 22, 23, 428, 429
- to forest management, 22, 427
- importance of forests, 427–429
- to wood harvesting and wood products, 427–429
- community participation, 474
- indicators, 516
- community resilience, 20, 441, 445–447, 519
- Community Wellbeing Index, 446, 447

Comprehensive, Adequate and Representative (CAR) reserve system, 82, 89–93
- components, 90
- defined, 82, 518
- forest area, 5, 81, 90–93
- management by prescription (defined), 90, 527

Comprehensive Regional Assessments (CRA), 8, 38, 76, 77, 90, 113, 147, 469, 470
- datasets, 63, 65, 66, 75, 76
- see also Regional Forest Agreement (RFA)
- conifer, 519 see also pine
- Connecting to Culture Sydney, 423
- conservation
- of biodiversity see biodiversity conservation
- of forests see forest conservation; nature conservation reserves
- soil see soil erosion; soil physical properties
- of water see water quality; water quantity
- Conservation Advice, 116
- conservation covenants, 81, 82, 90, 92, 94–95
- defined, 94, 519
- forest area, 95
- Conservation-dependent species (category), 116
- Conservation Partners Program, 489
- conservation plantings, 44, 154, 155, 163
- conservation reserve, defined, 519 see also nature conservation reserves
- consultative processes see community participation
- consumption, 358
- sawnwood, 357, 358–359
- wood-based panels, 357
- contemporary values, 413
- Convention on Biological Diversity, 5, 81, 82, 98, 150
- Nagoya Protocol, 161
- objectives, 39
- obligations under, 500
- Strategic Plan for Biodiversity 2011–2020, 5, 81, 98
- Convention on International Trade in Endangered Species of Wild Fauna and Flora, 161
- Convention on Wetlands of International Importance (Ramsar Convention), 97 see also Ramsar wetland sites
- cool temperate rainforest, 35 see also rainforest
- Cooperative Research Centre for Forestry, 503, 504
- Corymbia, 33, 49, 154, 158, 160, 184, 520
- C. citriodora, 158, 160
- C. heryi, 158, 160
- C. maculata, 34, 160, 184
- C. torelliana, 158, 160
- C. variegata, 184
- Council of Australian Governments (COAG), 406
- Forestry and Forest Products Committee, 40
- Council of Heads of Australian Botanic Gardens, 150
- coverage, 519 see also crown cover; forest area
- criteria and indicators for sustainable forest management, 1, 40, 467, 491, 495, 497, 513–516
- Critically Endangered ecological communities, 126, 519
- Critically Endangered species (category), 116, 117, 123, 239, 253, 519 see also threatened species
- crocodile industry, 222, 343, 344–345, 367
- Crotty Creek catchment, Victoria (case study), 299
- crown cover, 30, 32, 33, 50–54
- defined, 519
- forest area by crown cover class, 45, 51, 56
- forest area by tenure, 56
- forest distribution by crown cover class, 35, 52
crown density, defined, 519
Crown land, 38, 463
defined, 519
EPA audits, 308
Indigenous-managed lands, 414, 415, 418, 420
leasehold forest see leasehold forest
native title, 421
Other Crown land (land tenure class) see Other Crown land
timber production, 463, 475
CSIRO, 384, 503
cultural burning, 330–331, 416–417, 451 see also fire
cultural heritage assessments, 452 see also heritage sites, non-Indigenous; Indigenous heritage sites
cultural needs and values, 21–22
indicators, 516
cup-moth (Doratifera), 245
cycads, 149
Cyclaneusma minus, 246
cyclones see tropical cyclones
cypress oil, 349
cypress pine (Callitris columellaris), 349
cypress pine (Callitris columellaris var. intratropica), 349
cypress pines, 33 see also Callitris

D

Darwin stringybark (Eucalyptus tetrodonta), 34
Darwin woollybutt (Eucalyptus miniate), 34
Dasyurus hallucatus (northern quoll), 136
data and datasets, 57, 60–62
carbon accounting, 314–315
conservation lands, 95
fire in forests, 257, 258, 262
forest area, 4, 44, 45–46, 64–66
forest fragmentation, 102–108
forest height and cover, 62–64
forest tenure, 54, 64
forest type, 64
on genetic variation, 147
growth stage information, 76, 78–79
heritage sites, 406–407
Indigenous forest estate, 398, 399
LiDAR data capture, 386
lists of forest-dwelling species, 109, 110, 112, 113
living species, 139
MLE input, 63
old-growth forest, 75, 77, 78–80
protected areas, 82, 92, 95, 500
SOF 2018 and 2013 differences, 27, 45, 46, 57, 59, 60–62, 65, 262, 313, 315, 497–499
see also knowledge bases; mapping; monitoring; National Forest Inventory; research and development
Database of Legal Indigenous Land Interests, 398
dedicated formal reserves, 90
Deed of Grant in Trust lands, Queensland, 418
deer, 221
deer industry, 343, 344, 345, 346, 367
Defence Environmental Strategy, 94
Defence estate, 82, 94
forest area, 81, 94
Department of Aboriginal Affairs, Western Australia, 405
Department of Agriculture and Fisheries, Queensland, 158, 374
Forestry and Biosciences RD&E, 385
Department of Agriculture and Water Resources (Australian Government), 40, 46, 503
Department of Biodiversity, Conservation and Attractions, Western Australia, 405
Department of Defence areas see Defence estate
Department of Environment and Conservation, Western Australia, 160, 376
Department of Environment and Science, Queensland, 146
Department of Environment, Land, Water and Planning, Victoria, 376
Department of Parks and Wildlife, Western Australia, 217, 376
Department of Primary Industries, New South Wales, 145
Department of Primary Industries, Parks, Water and Environment, Tasmania, 375
Department of Sustainability, Environment, Water, Population and Communities (Australian Government), 488
Department of the Environment and Energy (Australian Government), 80, 314
desert oak (Allocasuarina decaisneana), 33
desert stringybark (Eucalyptus arenacea), 160
Dicksonia antarctica (tree fern), 136, 217, 218
dieback, 11, 80, 243, 245, 246, 247, 250, 255–256, 519, 528 see also Phytophthora cinnamomi
digital aerial photogrammetry, 386
Diplodia canker (Sphaeropsis sapinea), 246
direct employment see under employment
diseases see pests and diseases
disturbance activities, 276–277, 289–293, 301, 306 see also forestry operations; recreation and tourism
Doratifera (cup-moth), 245
Dothistroma septosporum, 246
DPIPWE see Department of Primary Industries, Parks, Water and Environment, Tasmania
drought, 11, 244, 245, 250, 295, 298, 348
forest health, 239, 249, 250–251
impact on eucalyptus oil production, 348
dry rainforest, 35 see also Rainforest
Dunn’s white gum (Eucalyptus dunnii), 160, 184
eastern forest bat (Vespadelus pumilus), 141–142
eastern grey kangaroo (Macropus giganteus), 218, 219, 220, 346
EcoFire project, 260
ecological communities defined, 520
threatened, 115, 126–128, 520, 529
ecological knowledge, 109, 113–114, 416
ecologically sustainable forest management see sustainable forest management
ecologically sustainable use, 520
economic diversity, 446
economic framework for forest conservation and management, 460, 482–490
effectiveness, 482
indicators, 516
overview, 484
trade policy, 484
value of environmental assets, 483–484
ecosystem services, 8, 352–356, 520
ecosystems definitions, 520
diversity indicators, 44, 513 see also biodiversity; biodiversity conservation
health and vitality, 238
health and vitality indicators, 514
productive capacity, 166
productive capacity indicators, 514
resilience, 520
ecotourism see recreation and tourism
education and training programs, 20, 457, 478–479, 481
national goals, 31
electricity generation from renewable sources, 365–366
Emissions Reduction Fund (ERF), 323, 331, 354, 486
Emoia nativitatis (Christmas Island forest skink), 117
employment, 19–20, 430–434
direct and indirect, 19, 430–434
direct and indirect (defined), 519, 523
forest-dependent communities, 441–448
forest-dependent LGAs, 19, 441, 442–445, 447
forest-related employment categories, 438
national goals, 31
number of persons employed, 431–433
trends, 19, 431–433
wages, 19, 435–437
worker age, 20
worker characteristics, 447–448, 454–457
worker resilience, 447
employment indicators, 515
Endangered ecological communities, 126, 520
Endangered species (category), 116, 117, 123, 520 see also
threatened species
endemism, 109, 520
Endothia gyrosa, 245, 247
energy use, 364–366 see also firewood; fuelwood
threatened ecological communities listed, 126
threatened species listed, 5, 115, 117–119
threatened species listing process, 116
Environment Protection Authority (New South Wales), 145
environmental assets, value of, 483–484
environmental compliance, 520
environmental friendliness of materials, perceived, 22, 23
environmental plantings, 57, 62, 278
defined, 37, 520
environmental services, 35, 352–356, 367, 520
investment in, 486–487
see also ecosystem services
Environmental Stewardship Program, 488
EPBC Act see Environment Protection and Biodiversity Conservation Act 1999
ERF see Emissions Reduction Fund (ERF)
erosion see soil erosion
essential oils, 349, 350
boronia oil, 349
cypress oil, 349
eucalyptus oil, 160, 344, 348, 367
sandalwood oil, 349, 367
tea-tree oil, 344, 348, 349, 367
Essigella californica (Monterey pine aphid), 244
Eucalypt forest
area, 3, 45–49
area by crown cover class, 51, 52, 53
area by IUCN protected-area categories, 86
area by jurisdiction, 53, 54
area in RFA regions, 58, 59
area in World Heritage areas, 96
area under private conservation covenant, 95
bushfires, 258, 260
description, 33–34, 49
distribution, 33–34, 35, 36, 47
dominance, 30
forest-dwelling and forest-dependent vertebrate species, 110, 111
managed for wood production, 53
subtypes, 33, 49
Eucalypt mallee forest
area, 52, 53–54
area in RFA regions, 58, 59
definitions, 30, 32, 50
distribution, 34, 36, 47
plantings (purpose), 160
eucalypt plantations
area, 45, 46
impact of myrtle rust, 254
see also hardwood plantations
eucalypts
defined, 520
genome sequence, 153, 155
selecting for future climates, 251
species, 33, 49
see also Angophora; Corymbia; Eucalyptus
Eucalyptus, 33, 49, 154, 158, 160, 520
E. accedens, 160
E. angustissima, 160
E. archeri, 160
E. areacea, 140
E. arqophlia, 154, 160
E. barberi, 154
E. Baxteri, 140
E. benthamii, 154, 163
E. botryoides, 160
E. brookeriana, 154
E. camaldulensis, 34, 140, 160, 245
E. cladocalyx, 160
E. cloeziana, 158
E. delegatensis, 34, 299
E. diversicolor, 34, 80, 160, 191
E. dunnii, 160, 184
E. globulus, 35, 129, 148, 155, 156, 158, 160, 184, 243, 245, 247, 300
E. grandis, 155, 160, 184
E. Gunnii, 154
E. horistes, 160
E. kochii, 348
E. leucosyphon, 140
E. laxophleba, 160
E. macarthurii, 126
E. macarcarpa, 160
E. marginata, 34, 80, 154, 160, 191, 245, 250, 496
E. miniata, 34
E. morrisbyi, 154
E. muelleriana, 160
E. nitens, 148, 156, 158, 160, 184, 245, 300, 308
E. obliqua, 34
E. occidentalis, 160
E. ovata, 129, 160
E. pellita, 158, 160
E. perriniana, 154, 160
E. plularis, 34, 148, 158, 160, 184
E. platypsylla, 144
E. polybractea, 160, 348
E. radiata subsp. radiata, 348
E. regnans, 34, 184, 191, 355
E. ridgwayi, 154
E. rodwayi, 160
E. saligna, 160, 184, 247
E. salmonophila, 160
E. sideroxylon, 160
E. sieberi, 34
E. tereticornis, 144
E. tetradoxa, 34
E. tricarpa, 160
E. vernicosa, 154
E. viridescens, 160, 243, 247
E. wandoo, 80, 160
eucalypt oil, 160, 344, 348, 367
ex situ conservation, 154, 163, 520
Excellence in Research for Australia, 510
exotic, defined, 520 see also introduced species
expenditure see investment
exports see imports and exports
external territories, 40
extinct, defined, 520
extinct in the wild, 116, 520
Extinct species (category), 116, 117
number of, 117
rediscovered (previously categorised as extinct), 117
removed from list, 123
extinctions, 117

F

FAO see Food and Agriculture Organization of the United Nations
farm forestry, 24, 37, 57
defined, 521
see also agroforestry
fatalities and injuries, 435, 438–440
Fenner School of Environment and Society, Australian National University, 510
Fenneropenaeus merguiensis (white banana prawn), 136
feral animal control, 144, 239, 241–242, 389, 416, 423
feral animals, 117, 127, 242, 345
industries based on, 345–346
monitoring, 137
see also vertebrate pests
feral deer see deer industry
feral goats see goat industry
feral pigs see pig industry
fibreboard, 340, 341, 360, 521, 524
fire, 75, 76
bushfire impact on old-growth forest, 8, 75, 78
carbon stock losses, 320–321
case studies, 261, 269–270
cultural burning, 451
data on, 257, 258, 262
distribution and frequency, 9, 263–268
forest area burnt, 8–9, 263–268
impact on forest health, 238
impact on soils, 288
by jurisdiction, 262–268
management, 258
number of fires, 264–266, 271
origin and spread, 258
planned, 8–9, 257–268, 272, 330–331, 416–417, 451, 526
soil erosion post-fire, 288, 301
unplanned, 8–9, 257, 258–260, 262–268, 272, 530 see also bushfire
water quality effects, 301
fire regime, 119, 124, 127, 257, 258, 416–417
defined, 521
firewood, 201, 203
collection regulations, 469
defined, 521
use, 18, 357, 364–366
First Peoples see Indigenous Australians
fish species, 111
ecological knowledge of, 114
monitoring, 136–139
threatened, 117, 118
flooded gum (Eucalyptus grandis), 155, 184
floriculture, defined, 521 see also wildflowers
Food and Agriculture Organization of the United Nations (FAO)
Global Forest Resources Assessments, 26, 57, 500
State of the World’s Forest Genetic Resources reports, 26, 500
State of the World’s Forests Reports, 26, 500
Food Standards Australia New Zealand certified native foods, 350
forest
benefits of, 1, 29, 352–356
carbon stored in, 10, 313, 314, 315, 316–323, 327–329
defined, 30, 50, 521
extent in Australia see forest distribution
growth stages see forest growth stages
importance to people, 427–429
inventory see National Forest Inventory (NFI)
land tenure or ownership see tenure (forests)
leasehold see leasehold forest
multiple-use see multiple-use public forest
native see native forest
old-growth see old-growth forest
other forest see Other forest
plantation see plantations
private see private forest
rainforest see rainforest
spatial distribution see forest distribution
value of standing timber, 352, 353–354, 483, 484
woodland see woodland forest
forest administration see forest conservation; forest management
Forest and Wood Products Australia, 372, 384, 427, 503–504
Forest and Wood Products Australia surveys, 22
forest area, 30, 45–49, 56, 70, 276–277
assessment methodology, 4, 44, 45, 46, 62–64
available for recreation and tourism, 21, 388–389
in carbon accounting, 314–315
by category, 2, 3, 45, 46, 49–50, 54, 56
under certified forest management schemes, 26
change over time, 4, 46, 60–62
covered by management plans, 26
by crown cover class, 56
data see data and datasets
defined, 519
differences in reported areas between SOFR 2013 and SOFR 2018, 45, 46, 56, 57, 59, 64–74, 103, 105
fire in forests, 8–9, 257, 262–268
forest type, 45, 46, 50, 54
growth stage, 75–80
harvested, 13, 14, 168, 174–178
heritage sites, 3, 21, 397, 398, 400, 401, 404, 406, 407–408
Indigenous estate, 414–422
by IUCN protected-area categories, 85–86
in jurisdictions (overview), 2–3, 46, 49
managed for protection of biodiversity, 5, 10, 55, 81, 98–100
managed for protection of soil and water resources, 10, 275–278 see also forest management
in National Reserve System, 83
in nature conservation reserves, 89
old-growth forest, 75, 77–80
old-growth forest in RFA regions, 75
phytophthora dieback, 246
plantations see plantations
in protected area categories, 81–100
reclassified, 56, 59, 64–74, 89, 167, 169, 170, 190, 276, 318–319, 320, 322
in RFA regions, 58–60
in RFA regions by state, 58
by tenure, 45, 54, 55, 56
wood production see harvest volume (forest wood products);
wood products and production
in World Heritage areas, 95–97
see also forest distribution
forest-based services, 352–356
forest biodiversity see biodiversity
forest categories, 30, 32–35, 46
datasets, 64 see also data and datasets
see also specific categories of forest: commercial plantations; Other forest
forest certification, 26, 521
forest clearing, 6, 10, 61–62, 70, 72–73, 102, 119, 127, 318–320, 517, 521 see also land clearing
forest condition and function, 8–11
forest conservation, 89–93
Australia’s approach, 89
capacity to conduct and apply research, 502–511
capacity to measure and monitor changes, 491–501
CAR reserve system, 81–100
criteria and indicators, 1, 40, 467, 491, 495, 497, 513–516
economic framework, 460, 482–490
economic framework (indicators), 516
institutional framework, 460, 471–481
investment in, 489
legal framework, 26, 29, 38, 460, 461–470 see also legislation
and legal/non-legally binding instruments
legal framework (indicators), 516
national goals, 31
by management by prescription, 90–93, 527
see also Convention on Biological Diversity; forest health;
forest management; nature conservation reserves; Regional Forest Agreement (RFA)
forest cover see crown cover; forest area
forest-dependent human communities, 441–448, 521
adaptive capacity, 446, 517
community needs indicators, 515
education levels, 20
Indigenous communities, 449–457
Local Government Areas, 19, 442–445
resilience, 20, 441, 445–447, 449–457
wellbeing, 447
worker characteristics, 447–448
forest-dependent species
defined, 109, 521
distribution, 6
habitat types, 110, 111
number of, 110, 111
threatened, 6, 46, 117, 119, 120, 121
value of products from, 343–344 see also non-wood forest products
vascular flora, 112
vertebrate fauna, 109, 110–111
forest distribution, 2, 30, 32, 46, 50
biomass density, 316, 317
burnt forest, 8–9, 271–272
by forest type, 47
in NRS, by IUCN category, 87
by tenure, 48
see also forest area; native forest distribution
forest-dwelling species, 5–7, 109–114
conservation status changes, 123–126, 129
defined, 109, 521
ecological knowledge of, 109, 113–114
genetic variation, 147–153
habitat types, 110, 111
number of, 5, 110
representative species monitoring, 135–146
threatened, 5, 6, 44, 115–134
threats to, 6, 117–122
vascular flora, 5, 109, 112
vertebrate fauna, 5, 109, 110–111
forest expansion, 10, 62, 313, 314, 316
area, 62
defined, 62, 314
forest extent see forest area
forest-exterior cells, 102–103
forest fire see fire
Forest Fire Management Group, 472
forest fragmentation, 8, 88, 101–108, 127
defined, 8, 521
fragmentation classes, 102–103
and loss of genetic variation, 147
forest genetic resources see genetic resources
forest growth stages, 8, 75–80
classification, 75–76
information on, 76
old growth see old-growth forest
in Tasmania, 78–79
see also mature (growth stage); regeneration (growth stage);
regrowth (growth stage); senescent (growth stage)
forest health (agents and processes), 8, 11, 238–252
biosecurity, 240
climatic events, 239, 240, 249–252
defined, 521
fire impact, 238, 259
metrics, 260–241
pests and diseases, 239, 241–247
weeds, 11, 127, 239, 247–249
see also forest conservation
forest height, 32, 33, 50–54
forest area by height class, 51
stand height classes, 32, 50
forest heritage, 408–411 see also Indigenous heritage sites
forest industries
economic dependence of Indigenous communities, 453–457
employment see employment fatalities and injuries, 20, 435, 438–440
innovation, 385–387
investment in, 373–380, 381
research and development, 381–387
value added to economy, 17, 336, 342
wages, 19, 435–437
worker characteristics, 447–448
worker resilience, 447
see also non-wood forest products; plantations; recreation and tourism; wood products and production
Forest Industries Research Centre, 504, 508, 510
forest-interior cells, 101, 102–103, 106
forest inventory see National Forest Inventory (NFI)
forest land, defined, 521 see also forest area
forest management, 296–297
areas managed by prescription, 90–93
capacity to conduct and apply research, 502–511
capacity to measure and monitor changes, 491–501
certification, 476–478
community participation indicators, 516
criteria and indicators, 1, 40, 467, 491, 495, 497, 513–516
defined, 521
economic framework, 460, 482–490
economic framework (indicators), 516
education and training programs, 20, 457, 478–479, 481
effectiveness of, 26
employment see employment
fire as management tool see fire: planned
Indigenous participation, 22, 412–426
institutional framework, 460, 471–481
investment in, 373–380, 487–490
legal framework, 26, 29, 38, 460, 461–470 see also legislation and non-legally binding instruments
legal framework (indicators), 516
national goals, 31
policy frameworks, 26, 29, 31, 38, 471–473
private forests, 490
protective functions, 274, 275–278 see also soil resources conservation and maintenance; water resources conservation and maintenance
public participation, 474
public perceptions, 22, 427–429
publicly managed forest, 527
research and development expenditure, 25, 381–385 see also forest conservation; forest regeneration; forestry operations; Regional Forest Agreement (RFA); research and development; sustainable forest management
forest policy see policy frameworks
forest products see harvest volume (forest wood products); non-wood forest products; wood products and production
Forest Products Commission, Western Australia, 158, 160, 376, 378
forest regeneration, 224–230
defined, 527
harvested multiple-use public forest, 14, 224–229
native forest, 224, 229, 230
plantation establishment/re-estABLishment, 12, 62, 229–235 see also regeneration (growth stage)
forest regrowth, 61–62, 527
forest research see research and development
Forest Research Centre, Southern Cross University, 510
Forest Sky Pier, Orara East State Forest, 394
Forest Stewardship Council scheme, 26, 471, 476
forest tenure types see tenure (forests)
forest types, 30, 32–35, 46 see also specific types of native forest: Acacia forest; Callitris forest; Casuarina forest; Eucalypt forest; Mangrove forest; Melaleuca forest; Other native forest; Rainforest
FORESTCHECK, 113, 135, 136, 495–496
Forestry and Forest Products Committee, 40, 472
Forestry Corporation of New South Wales
curriculum-aligned school excursions, 474
engagement with the Aboriginal community, 423, 424, 474
forest area managed, 374, 389
plantation establishment, 378
recreation and tourist facilities, 21, 390–391, 392, 394
seed orchards, 154, 158
forestry, defined, 521 see also forest conservation; forest management; forest operations
Forestry Ministers Meeting, 472
forestry operations
conservation threat, 123, 125, 126
defined, 521
effect on water quality, 306–307, 309
employment see employment
heritage sites, 408–411
impacts on soils, 289–290
investment in, 373–380
research and development expenditure, 25, 381–387
threatening process, 119, 127
see also codes of forest practice; forest industries; forest management; harvesting (forest wood products)
Forestry Tasmania, 217, 375, 378
forestry workers see employment
ForestrySA, 375, 378, 389
forests see forest
ForestWorks Industry Skills Council (ForestWorks), 478
formal reserves
defined, 90, 521
forest area, 90–93
fragmentation see forest fragmentation
fragonia (Agonia fragrans), 349
free trade agreements, 484
frog species, 109
FrogWatch, 139
fuel reduction burns see prescribed burning
fuelwood, 201, 203
defined, 521
use, 18, 357, 364–366
Full Carbon Accounting Model (FullCAM), 315, 323
fungi, 113, 135, 246–247
Galaxias species, 116, 118, 139
game pig industry, 343, 344, 346, 367
genetic diversity
defined, 521
indicators, 44, 513
loss of, 147–148
Macadamia species, 151–152
research, 155
see also genetic variation, loss of genetic improvement programs, 7, 44, 152, 153
ngenetic resources
access and use protocol, 161
conservation measures, 7, 44, 150, 152, 153–163
defined, 521
gene flow from plantations, 160
importance and role, 155–156
international collaboration and engagement, 161
international dispersion, 152, 153, 155
timber species, 153–163
genetic variation, loss of, 147–153
risk mitigation, 150
risks, 167–148
see also genetic diversity
grand freshwater crayfish (Astacopsis gouldi), 309
giant mud crab (Scylla serrata), 136
giant pine scale (Marchalina helenium), 239, 244–245
Ghulab community, 452
global carbon cycle, 312, 314, 428, 467, 522 see also carbon cycle
Global Forest Resources Assessments, 26, 57
Global Forests Goals, United Nations Forum of Forests, 26
goat industry, 343, 345–346
Gonipterus species, 244, 247
government agency name changes, xi
government in Australia, 38 see also jurisdictions
grafted plantings, 154, 156, 162, 163, 522
Grantiella picta (Painted Honeyeater), 126
grazing see livestock grazing
Great Barrier Reef catchment zone, 326–327
greater glider (Petauroides volans), 126, 144
greenhouse gases, 314, 522
mitigation benefits of forest management, 327–329
mitigation benefits of managed fire, 330–331
offsets, 10, 313, 314
see also carbon cycle; carbon dioxide; carbon stocks
Greening Australia, 155
Grevillea (forest type), 35
grey mangrove (Avicennia marina), 34
gross domestic product contributions to, 17, 336, 342, 523
defined, 522
group selection, 175, 177, 522
growing stock, 522
growth stage see forest growth stages
Gumgali Track, 424, 426
gumleaf skeletoniser (Uraba lugens), 245
Gunditjmara community, 423
Gymnobelideus leadbeateri (Leadbeater’s possum), 75, 123, 126, 131–133, 191
Gympie messmate (Eucalyptus cloeziana), 158

H

habitat
defined, 522
quality, and forest fragmentation, 102
use, 90, 110, 111
habitat loss, 116, 123, 125, 130, 133, 152
habitat tree, defined, 522
Hakea (forest type), 35
hardwood plantations
area, 12, 45, 50, 57, 179–182
area by jurisdiction, 54, 57, 181
climatic regions, 36
establishment/re-establishment, 232–233
forecast plantation log supply, 211–213
harvest volume, 15–16, 185–186, 195–196
investment in, 24, 377–378
national goals, 31
overseas, 7, 153
pests and diseases, 243–244, 245
species, 36
hardwoods
consumption of sawn wood, 357, 358–359
defined, 522
main uses, 36
harvest area (forest wood products)
area harvested, 174–178
multiple-use public forest, 13–14, 174–178
net harvestable area, 13, 167, 173–174
harvest value, 17, 336–341
harvest volume (forest wood products), 15–17, 185–214, 336–341
annual harvests, 15–18, 187–196, 199–203
forecast native forest log supply, 208–209, 210
forecast plantation log supply, 209, 211–214
by jurisdiction, 189–196
national, 187–189
sources, 208
sustainable yield, 17–18, 186–196, 519, 529
trends, 15–16, 206–208
see also wood products and production
harvested products see non-wood forest products; wood products and production
harvesting (forest wood products)
defined, 522
kangaroo responses to, 145
‘legally restricted’/‘not legally restricted’ tenures, 168–169, 170
prohibitions, 56, 90
underwater harvesting, 387
see also wood products and production
Hawkesbury Institute for the Environment, 510
heatwaves, 239, 247, 250, 252

heritage management plans, 410
heritage sites, non-Indigenous, 21, 406–411
forest heritage, 408–411
forest on, 404, 406, 407–408
heritage, defined, 406
registers, 406, 407
see also Indigenous heritage sites
heritage values, 413
Heterodendron (forest type), 35
Heteronyx species, 244
Holocryphia eucalypti, 245, 247
honey myrtle (Melaleuca teretifolia), 349
honey production, 222, 347–348
imports and exports, 367
threats to, 222
value, 18, 343, 344, 347, 348, 367
volume, 18, 343, 348, 357, 367
hoop pine (Araucaria cunninghamii), 158, 184
household recycling see recycling
housing and residential building commencements, 358–359
HQ Plantations, 158
human pressures (threatening process), 125, 127, 128
hunting licences, 220–221
huon pine (Lagarostrobos franklinii), 387
hybridisation, 148–149, 522
Hydrowood, 387
hypersaline conditions, 11, 240, 255–256

I

IBRA see Interim Biogeographic Regionalisation for Australia (IBRA)
ILC see Indigenous Land Corporation (ILC)
illegal logging, 470
imports and exports
non-wood forest product, 344–350, 367
paper products, 18, 361
paper waste exported, 368, 369
prohibition of illegally logged timber, 470
wood products, 18, 357–366
in situ conservation, 154, 522
Indian sandalwood (Santalum album), 160
Indigenous Advisory Committee, 414
Indigenous Australians, 38
cultural dependence on forest-based activities, 450
cultural values, 413, 449, 450, 451, 452
customary practice rights, 422
economic dependence on cultural forest-based activities, 450–453
economic dependence on forest industries, 453–457
fire use (cultural burning), 330–331, 416–417, 451
forest management see Indigenous participation in forest management
forestry enterprises, 425
lands owned or managed see Indigenous estate
native food products, 222, 344, 350–351
training and skills development, 457
Indigenous co-managed lands, 398, 420–421, 423, 522 see also Indigenous estate
Indigenous cultural values protected and maintained, 412–426
indicators, 516
Indigenous estate, 21–22, 55, 397–405
defined, 523
distribution, 22, 403
forest estate (area), 3, 397, 398, 400, 401, 413
heritage sites see Indigenous heritage sites
land ownership and management categories, 3, 21, 398, 414
management regimes, 398, 400, 401
World Heritage areas, 314
see also Indigenous participation in forest management; native title

Indigenous forestry, 425
Indigenous heritage sites, 400–405, 409, 424
cultural heritage assessments, 452
datasets, 497
forest area, 21, 397, 405
number of, 21, 397, 400, 402
protection, 400, 405, 413, 452
registers, 401
Indigenous Land Corporation (ILC), 414, 416
owned and transferred lands, 417, 425
Indigenous Land Use Agreements, 3, 21, 414, 421–422, 523
Indigenous managed lands, 398, 419–420, 523
see also Indigenous estate
Indigenous (of people), defined, 522
Indigenous values, 413
land management arrangements, 413–414
land ownership and management categories, 3, 21, 398, 414
mechanisms, 422–424
Other special rights lands, 421–422
training and skills development, 457
see also Indigenous Australians; Indigenous estate
Indigenous pastoral leases, 419
Indigenous Protected Areas, 21, 399, 415–417, 421, 423, 451, 523
Indigenous rangers, 137
‘Indigenous’ (use of term), 38
indirect employment see under employment
industrial fuelwood see fuelwood
industrial plantations see commercial plantations
industry see forest industries
industry value added, 17, 336, 342
informal reserves
defined, 90, 523
forest area, 90–93
injury and fatality rates in forest sector, 20, 438–440
insect pests, 11, 243–245, 247
Institute for Forest Products Innovation, 511
institutional framework for forest conservation and management, 460, 471–481
Integrated Forest Ecosystem Research (IFER) program, 511
Interim Biogeographic Regionalisation for Australia (IBRA), 105, 522
international agreements, 161, 484 see also Convention on Biological Diversity; Food and Agriculture Organization of the United Nations (FAO); International Union for Conservation of Nature (IUCN); Montreal Process; Ramsar wetland sites; United Nations; World Heritage List

international collaboration and engagement
in genetic resource conservation, 161
reporting, 26, 57, 491, 500
International Plant Protection Convention, 161
international responsibilities
national goals, 31
reporting, 26, 57, 491, 500
International Treaty on Plant Genetic Resources for Food and Agriculture, 152
International Union for Conservation of Nature (IUCN), 82
forests area by IUCN category, 85–86
forest distribution by IUCN category, 87
protected area targets, 84
protected area categories, 84
International Union for the Protection of New Varieties of Plants, 161
introduced species, 127, 242
defined, 523
and forest health, 239, 241–243
grasses, 247
non-planted forest, 37
threats from, 102, 119, 124
weeds, 11, 127, 239, 247–249
vertebrate pests, 11, 239, 241–243
Invasive Animals Cooperative Research Centre, 242
invasive species impacts, 125
inventory of forests see National Forest Inventory
invertebrate pests, 239, 243–245
invertebrate species
conservation status changes, 123–126
ecological knowledge of, 109, 113–114
monitoring, 135, 136–139
threat ratings and categories, 119, 122
threatened, 115, 117, 118, 149–150
investment, 24
in environmental services, 486–487
in forest industries and conservation, 373–380, 487–490
indicators, 515
managed investment schemes, 13, 183, 485, 524
measurement parameters, 379
in natural resource management, 487–490
in plantations, 24, 377–378, 485
private investment capital, 24, 482, 485
in research and development, 25, 381–387
in wood processing, 24, 379–380, 381, 385, 486
IPCC see Intergovernmental Panel on Climate Change
Ips grandicollis (bark beetle), 244
IUCN see International Union for Conservation of Nature

James Cook University, 146
jerah (Eucalyptus marginata), 34, 80, 154, 160, 191, 245, 250, 496
Jervis Bay Territory, 40
jurisdictions
agency names, xi
codes of forest practice see codes of forest practice, by jurisdiction
cultural heritage protection legislation, 400
defined, 523
forest area see forest area; native forest area
institutional frameworks, 460, 471–481
investment in forest management, 373–377
legal frameworks, 460, 461–470
policy frameworks, 26, 29, 31, 38, 471–473
protected areas, 81–100
representative species monitoring, 136–139
research and development, 502, 506–509
responsibilities of Commonwealth, state and territory governments, 38
see also Regional Forest Agreement (RFA)

K
Kakadu National Park, 21, 38, 55, 82, 97, 98, 388
land ownership and management categories, 414
management arrangements, 389, 423
World Heritage area, 408, 421
Kakadu plum (Terminalia ferdinandiana), 223, 350–351
kangaroos, 218
adverse impact in forests, 243
population, quota and harvest data, 218–221
product volume and value, 346–347
species harvested, 218, 346–347
karri (Eucalyptus diversicolor), 34, 80, 160, 191
key threatening processes see threats/threatening processes
Khaya senegalensis (African mahogany), 184, 300
knowledge bases
koalas, 145
soil, 285, 294
water resources, 297–298, 301, 306–307
see also data and datasets
koala (Phascolarctos cinereus), 126, 136, 143–145, 150, 243
Kowen Forest, 393
Kuku Yalanji group, 424
Kyoto Protocol, 10, 314, 315, 500

L
Lagarostrobos franklinii (Huon pine), 387
land clearing, 4, 60, 70, 72, 124, 125, 163, 523 see also forest clearing
land ownership, 38 see also tenure (forests)
land tenure
defined, 37–38, 523
forest land see tenure (forests)
land trusts lands see Aboriginal lands trusts
land-use agreements see Indigenous estate; Indigenous Land Use Agreements; tenure (forests)
land-use change, 119, 124, 125
Landcare Australia, 278
landfill
carbon stocks, 10, 313, 323–324
Lantana camara, 144, 247
large forest bat (Vespadelus darlingtonii), 141–142
large-fruited red mahogany (Eucalyptus pellita), 158, 160
Larry (tropical cyclone), 158
Lates calcarifer (barramundi), 136
Latham discolor (Swift Parrot), 116, 123, 126, 129–131, 136
Leadbeater’s possum (Gymnobelideus leadbeateri), 75, 123, 126, 131–133, 191
leaf disease, 245
leasehold forest
area, 3, 45, 54–56
area available/suitable for commercial wood production, 168–174
area by crown cover class, 56
area by jurisdiction, 55
area under private conservation covenant, 95
defined, 37, 523
fire, 266–268
legal framework for forest management and conservation, 26, 29, 38, 460, 461–470
indicators, 516
legislation and legal/non-legally binding instruments, 523
forest conservation and management, 462–464, 472–473
see also Environment Protection and Biodiversity Conservation Act 1999
harvesting non-wood forest products, 216–217
heritage protection, 400
Indigenous cultural heritage protection, 400, 405
Indigenous customary practice rights, 422
Indigenous land and forest, 415
Indigenous participation in land management, 413–414, 423
monitoring and reporting state of forests, 26
soil protection, 276–277, 279–283, 286–288, 290–292
water resources protection, 276–277, 295–297, 302–305
see also codes of forest practice
lemon myrtle (Backhousia citriodora), 154, 158, 349, 350
Leptospermum (forest type), 35
lichen, 113, 135
LiDAR (light detection and ranging)
defined, 523
forest inventory and data capture, 386
Liparetus species, 244
liverworts, 113
livestock grazing, 30, 53
Living Murray Icon Sites, 139
Local Government Areas dependent on forest and wood products industries see forest-dependent human communities
logging see forestry operations; harvesting (forest wood products)
logs see pulplogs; sawlogs; wood products and production
Long-Term Ecological Research Network (LTERN), 505–506
Long-Term Ecological Research sites (LTER), 113, 135, 505
Lophostemon (forest type), 35
low forest, 32, 50, 51
Lowden Forest Park, 411
LTR see Long-Term Ecological Research sites (LTER)
LTERN see Long-Term Ecological Research Network

M
macadamia nut industry, 152
Macadamia species, 126, 148, 150, 151–152
Macropus fuliginosus (western grey kangaroo), 218, 346
Macropus giganteus (eastern grey kangaroo), 218, 219, 220, 346
Macropus robustus (common wallaroo or euro), 218, 219, 220, 346
Macropus rufogriseus (Bennett’s wallaby), 136, 218, 220, 346
Macropus rufus (red kangaroo), 218, 220, 346
Magpie Goose (Anseranas semipalmata), 215
mallee, 49, 524, see also Eucalypt mallee forest
mammal species, 111
camera trapping, 133–134
ecological knowledge of, 109, 113, 114
endemic, 109
monitoring, 136–139, 141–144
threatened, 117, 118
managed investment schemes, 13, 183, 485, 524
management effectiveness, defined, 524
Mangrove forest
area, 50
area by crown cover class, 52
area by IUCN protected-area categories, 86
area by jurisdiction, 53, 54
area in Ramsar sites, 98
area in RFA regions, 59
area in World Heritage areas, 96
description, 34
dieback and mortality, 11, 255–256
distribution, 34, 47
forest-dwelling and forest-dependent vertebrate species, 111
mangroves, 34, 255–256, 524
manna gum (Eucalyptus viminalis), 160, 243, 247
Manorina melanoecephala (Noisy Miner), 116, 243
Manorina melanophrys (Bell Miner), 243, 247
mapping, 62–74
changes in, 62
Multiple Lines of Evidence process, 62–64
see also data and datasets
Maralinga Tjarutja lands, 418
Marchalina hellenica (giant pine scale), 239, 244–245
Marcia (tropical cyclone), 11, 240, 244, 249
marri (Corymbia calophylla), 160, 191, 245, 246–247, 250
Mastacomys fuscus mordicus (broad-toothed rat), 126
materials
community perceptions of environmental friendliness, 22, 23, 428, 429
mature (growth stage), 75–76, 524
meat and skins see animal products
medium-density fibreboard (MDF), 524 see also fibreboard
medium height forest, 32, 50, 51
Melaleuca, 154
M. alternifolia, 348
M. leucadendra, 349
M. viridiflora, 34
Melaleuca forest
area, 50
area by crown cover class, 52
area by IUCN protected-area categories, 86
area by jurisdiction, 53, 54
area in RFA regions, 59
area in World Heritage areas, 96
description, 34
distribution, 34, 47
Mesembriomys gouldii (black-footed tree-rat), 126, 133–134
messmate stringybark (Eucalyptus obliqua), 34
Micropathus kiernani, 126
Miena cider gum (Eucalyptus gunnii subsp. divaricata), 154
millennium drought, 250, 295, 298, 348
Millennium Seed Bank Partnership, 155
Minerva Hills National Park, 144
mining development, 70, 73
Mnesampela privata (autumn gum moth), 244
MODIS (Moderate-resolution Imaging Spectroradiometer), 524
Monaro dieback, 247
monitoring, 26–27, 29
capacity to measure and monitor changes in forests, 491–501
case studies, 136
defined, 524
international, 26, 57, 491, 500
national monitoring and reporting, 491, 497–500
national reserve system monitoring effectiveness of, 500–501
reporting by tenure, 492
representative species, 135–146
state and territory measurement, monitoring and reporting, 492–496
see also Australia’s State of the Forests Report (SOFR) series; data and datasets
monsoon rainforest, 35 see also rainforest
Monterey pine aphid (Essigella californica), 244
Montreal Process, 500, 524
Montreal Process criteria and indicators, 1, 40, 467, 491, 495, 497
comparison with Australia’s national indicators, 513–516
Montreal Process Implementation Group for Australia (MIG), 40, 472, 513
Montreal Process Working Group, 1, 40, 513
Morrisby’s gum (Eucalyptus morrisbyi), 154
mortality agents, 124, 125
mosses, 113, 135
Mossman Gorge, 424
mottlecah (Eucalyptus regnans), 34, 184, 191, 355
mud crab industry, 343, 344, 350
mulga (Acacia aneura), 32
Multiple Lines of Evidence approach, 4, 44, 45, 46, 62–64, 497, 524
multiple-use public forest, 21, 38, 174–178, 527
area, 3, 5, 21, 45, 56
area available/suitable for commercial wood production, 167, 168–174
area by crown cover class, 56
area by forest category, 56, 57
area by jurisdiction, 55, 56
area harvested, 13, 14, 168, 178
commercial plantations, 57
defined, 37, 524
fire, 266–268
forecast log supply, 209, 210
growth stages, 75
management see forest management
management of non-wood values, 81
protected, 82
recreation and tourism, 21, 388–389
regeneration/re-stocking, 14, 225–229
sustainable yield, 17–18
Murdock University
State Centre of Excellence on Climate Change, Woodland and Forest Health, 511
Murray–Darling Basin, 139, 298
Myrtaceae, 11, 239, 246, 254, 350, 520
myrtle beech (Nothofagus cunninghamii), 246, 387
myrtle rust (Austropluvinia psidii), 11, 128, 239, 246
case study, 253–254
distribution, 11, 253
fungicide use, 350
in hardwood plantations, 245, 254
host species, 239, 246
impact of, 11, 239, 253–254, 504
in native forests, 246
research, 504
species susceptibility, 155, 158, 253–254, 350
myrtle wort (Chalora australis), 246

N

Nagoya Protocol on Access to Genetic Resources and the Fair and Equitable Sharing of Benefits Arising from their Utilization, 161
Nannoperca obscura (Yarra pygmy perch), 139
narrow-leaved mallee (Eucalyptus angustissima), 160
narrow-leaved paperbark (Melaleuca alternifolia), 348
narrow-leaved peppermint (E. radiata subsp. radiata), 348
National Arboretum, 150, 163
National Burning Project, 261
National Bushfire Management Policy Statement for Forests and Rangelands, 258
National Carbon Accounting System see National Greenhouse Gas Inventory
National Centre for Future Forest Industries, 504
National Conservation Lands Database, 95
National Forest Biosecurity Surveillance Strategy, 240
National Forest Biosecurity Surveillance Strategy Implementation Plan, 11, 240
National Forest Inventory (NFI), 27, 30, 39
datasets, 4, 45, 46, 60, 61, 64
defined, 524
land tenure classes, 37–38
native forest categories, 30, 49
National Forest Inventory Steering Committee, 39, 40, 472
National Forest Policy Statement, 26, 29, 38, 77, 89, 471, 497
goals, 31
National Genetic Resource Centre for plantation forestry, 156
national goals, 31 see also National Forest Policy Statement
National Greenhouse Accounts, 313, 314
National Greenhouse Gas Inventory, 10, 314–315, 500
data, 46, 60–62, 63, 65–66, 319
defined, 524
National Heritage List, 406, 407, 408, 410
National Inventory Reports (on greenhouse gas emissions), 60
National Macadamia Germplasm Collection, 150
national parks see nature conservation reserves
National Parks and Wildlife Service, New South Wales, 284, 288, 291, 392, 423, 466, 474, 489, 493
National Plantation Inventory (NPI), 4, 30, 35, 524
regions, 37, 212
National Reserve System (NRS), 81, 82, 389, 500–501
defined, 525
forest area, 5, 26, 81
forest area in Ramsar sites, 98
forest area in World Heritage Areas, 97
forest area, Indigenous lands, 422–423
forest area under private conservation covenant, 95
forests, 82–88
IPAs, 417
monitoring, 500–501
targets, 154, 500
see also nature conservation reserves
National Reserve System Strategy 2009–2030, 154
National Strategy for Conservation of Australia's Biological Diversity, 89
National Timber Product Stewardship Group, 372
National Trust of Australia (Western Australia), 94
National Vegetation Information System, 525
National Vegetation Information System (NVIS), 49, 525
National Waste Policy, 372
native cypress pine see cypress pine
Native Fish Strategy for the Murray–Darling Basin 2003–2013, 139
native food products, 222, 344, 350–351, 367
native forest
area see native forest area
benefits of, 1, 29
carbon dynamics of managed forests (case study), 327–329
carbon stored in see carbon stocks
crown cover and height classes, 30, 32, 50–54
defined, 30, 525
distribution see native forest distribution
dominant tree species, 30, 32
fragmentation, 8, 88, 101–108
geographic resources, 153–163
growth stages, 76
harvest see harvest volume (forest wood products)
health see forest health
Indigenous owned/managed, 3, 55 see also Indigenous estate
maintenance of productive capacity, 166
managed for wood production, 13, 53 see also forest management
multiple-use see multiple-use public forest
national goals, 31
non-production, 525
pests and diseases, 245, 246–247
policy see policy frameworks
products see harvest volume (forest wood products);
non-wood forest products; wood products and production
protection processes, 5, 81, 82, 98–99
regeneration after harvest, 225–229, 230 see also forest regeneration
structural classes, 30, 32, 33, 50, 51
sustainable yield, 17–18, 186–196
types, 30, 32–35, 49–50 see also Acacia forest; Calitris forest;
Casuarina forest; Eucalypt forest; Mangrove forest;
Melaleuca forest; Other native forest; Rainforest
value of standing timber, 352, 353–354, 483, 484
wood harvesting prohibitions, 56, 90
native forest area, 2, 3, 45, 56, 89
available for recreation and tourism, 21, 388–389
available/suitable for wood production, 13, 166, 167–174
in CAR reserve system, 89–93
by crown cover class, 45, 51, 52, 53
Defence estate, 81, 94
by forest type, 45, 50, 52, 54
fragmentation, 8, 103–108
by growth stage and tenure category (Tasmania), 79
harvested, 13, 14, 168, 174–178
by height class, 51
Indigenous forest estate, 3
by IUCN protected-area categories, 84–86
in jurisdictions (overview), 46, 49
managed for protection of biodiversity, 5, 10, 55, 81, 98–100
in National Reserve System, 83
in nature conservation reserves, 89
net harvestable area, 13, 167, 173–174
not legally restricted from harvesting, 167, 168–169, 170
in protected area categories, 3, 21, 81–100
Ramsar sites, 5, 81, 97–98, 99
in RFA regions, 58–59
by tenure, 3, 45, 54–56, 79
in World Heritage areas, 95–97
native forest distribution, 2, 36, 51
by crown cover class, 52
by forest type, 47
fragmentation class, 88
fragmentation patch size, 106, 107
native forest management see forest management
native species
defined, 525
distribution prior to European settlement, 147
trees of economic importance, 148
native title, 3, 21, 413, 421, 423 see also Indigenous estate
natural resource management
investment in, 487–489
see also forest management; investment
Nature Conservancy, 94
nature conservation reserves, 21, 38, 44, 89, 90
co-managed, 420–421
defined, 37, 525
fire, 266–268
forest area, 3, 5, 45, 55–56, 81, 89
forest area by crown cover class, 56
forest area by jurisdiction, 55
formal reserves (defined), 90
growth stages, 75
Indigenous owned and co-managed, 419–420
Indigenous participation and advice, 423
memoranda of understanding, 420
tourism and recreation, 21, 388–389
see also biodiversity conservation; forest conservation; forest management; National Reserve System (NRS); protected areas
Nature Conservation Trust (New South Wales), 94
NCLD see National Conservation Lands Database
New South Wales Aboriginal Land Council lands, 417
NFI see National Forest Inventory
 Ngooyroo Gunditj Ngooyroo Mara South West Management Plan, 423
Nindethana Australian Seeds, 155
Noisy Miner (Manorina melanocephala), 116, 243
non-commercial plantations see Other forest non-forest, 30, 51, 70, 525
non-forest habitats, 110, 111
non-government agency name changes, xi
Non-Indigenous Heritage Sites of Australia (NIHSA) dataset, 407–408
non-vascular plant species ecological knowledge of, 109, 113–114
non-vascular plant (defined), 525
threatened, 115, 117, 118
non-wood forest products, 15–18, 215–223, 343–351
animal products, 215, 218–222, 343, 344–348, 350
bush foods, 223, 344, 350–351, 367
defined, 525
eamples, 215
Indigenous harvest, 223
production and consumption, 357, 358
regulation, 215, 216–217
sustainable harvesting, 215–223
value of production, 343–344
northern bettong (Bettongia tropica), 136, 146
northern quoll (Dasyurus hallucatus), 136
northern sandalwood (Santalum lanceolatum), 160, 162, 217, 348
Northern Territory Aboriginal Land Trusts lands, 21, 412, 417–418
Nothofagus cunninghamii (myrtle beech), 246, 387
novel biota, 116
NPI see National Plantation Inventory
NRS see National Reserve System
Numbers of Living Species in Australia and the World report, 109
NVIS see National Vegetation Information System

Oberonia attenuata (orchid), 117
oil mallee (Eucalyptus kochii), 348
old-growth forest, 77–80
area, 8, 75, 77–78
data, 75–80
defined, 75, 77, 525
impact of bushfires, 8, 75, 78
jarrah and karri (case study), 80
protection of, 77
Tasmania, 78–79
Victoria, 78
Western Australia, 80
OneFortyOne Plantations Pty Ltd, 375, 378
open forest, 30
area, 51
area by jurisdiction, 51, 53
area by native forest type, 52
area by tenure, 56
area under private conservation covenant, 95
crown cover, 30, 50, 51
defined, 30, 525
distribution, 52
forest-dwelling and forest-dependent vertebrate species, 110, 111
uses, 30, 53
orange mud crab (Scylla olivacea), 136
Orara East State Forest, 394
orchids, 117, 126, 149
Oreixenica ptunara, 126
Other Crown land Defence estate, 81, 94
defined, 38, 525
fire, 266–268
forest area by crown cover class, 56
forest area by jurisdiction, 55
forest area under private conservation covenant, 95
Other forest, 37, 49, 57
area, 2, 45, 46, 50, 57
area by IUCN protected-area categories, 85–86
area by jurisdiction, 46, 49, 54, 57
area by tenure, 56–57
area in RFA regions, 58–59
defined, 30, 525
distribution, 47
forest-dwelling and forest-dependent vertebrate species, 111
planted forests, 57
Other native forest, 35, 49, 525
area, 50
area by crown cover class, 52
area by jurisdiction, 54
area in World Heritage areas, 96
distribution, 47
Other special rights lands, 398, 421–422, 526 see also Indigenous estate
other wood products, defined, 526
Other woody vegetation, 51, 526
ownership of land, 38 see also tenure (forests) of trees, 12, 24, 38, 183

P
Painted Honeyeater (Grantiella picta), 126
Palngun Wurnangat Association, 351
panels see wood-based panels
paper and paperboard, 340, 341
carbon stocks, 324–325
consumption, 361
employment in product manufacturing, 19–20, 433, 449
fatalities and injuries in product manufacturing, 438, 439
imports and exports, 18, 361, 363–364
investment and expenditure, 380
production volume, 361
production volume and value, 16, 17
recovered, 368–369
recycled, 18, 368–370, 371
research and development expenditure, 25, 382–383
value of production, 340
waste exported, 368

Australia’s State of the Forests Report 2018
578
waste paper transferred to landfill, 324–325
weight of production, 340, 341
paperbarks see Melaleuca
parasitic wasps, 244
parasitoids, 244, 526
Parks Victoria, 423
Paropsisterna species, 243
particleboard
consumption, 360
defined, 526
production volume, 360
volume and value, 340, 341
pastoral leases, 422
pathogens, 11, 238, 239, 240, 245–247 see also pests and diseases; Phytophthora cinnamomi
peeler logs, 199, 200, 201, 203, 204, 526
pest management, 221
pests and diseases, 11, 119, 241–249
defined, 240
insect pests, 11, 243–246
invertebrate pests, 239, 243–246
mangrove dieback case study, 255–256
myrtle rust case study, 253–254
pathogens, 11, 238, 239, 240, 245–247
vertebrate pests, 11, 221, 239, 241–243
weeds, 11, 239, 247–249
see also threats/threatening processes
Pteropus alecto (greater glider), 126, 144
Pteropus alecto (sugar glider), 116, 126, 129–131
Phascolarctos cinereus (koala), 126, 136, 143–145, 150, 243
Phoracantha species, 245, 247
Phyllocladus asplenifolius (celery-top pine), 387
Phytophthora cinnamomi, 80, 117, 128, 245, 246, 495, 504, 519
pigs see game pig industry; vertebrate pests
piles (wood product), 199, 201, 203, 526
pine
defined, 526
Caribbean (Pinus caribaea), 184
cypress (Callitris columellaris), 349
hoop (Araucaria cunninghamii), 158, 184
maritime (Pinus pinaster), 184, 269
radiata (Pinus radiata), 158, 184, 244, 246
slate (Pinus elliottii), 184
pine plantations, 11, 36, 45 see also softwood plantations
Pipistrellus murrayi (Christmas Island pipistrelle), 117
Plant Biosecurity Cooperative Research Centre, 503, 504
plant products, 215, 217–218, 223, 343, 348–351 see also wood products and production
Plantation Forest Biosecurity Plan, 11, 240
plantation species
main species, 36, 163, 184
with reproductive material in seed collections, 155–156
in seed orchards, 158, 159
selection of, 44
in tree improvement or breeding programs, 155–158
plantations
commercial see commercial plantations
defined, 526
establishment/re-establishment, 12, 62, 229–235
forest-dwelling and forest-dependent vertebrate species, 111
geographic resources conservation, 153, 155–156
hardwood see hardwood plantations
harvest volume see harvest volume
health see forest health
industrial see commercial plantations
investment in, 24, 377–378, 485
maintenance of productive capacity, 166
pests and diseases, 243–246 see also forest health
softwood see softwood plantations
value of standing timber, 352, 353–354, 483, 484
water use, 298, 300
planted forests, 57, 278, 526 see also commercial plantations;
softwood plantations; wildlife corridors
plants
conservation status changes, 123–126
eknowledge of, 113–114
forest-dwelling and forest-dependent species, 5, 109, 112
non-vascular plant species see non-vascular plant species
threat ratings and categories, 119, 122
threatened see threatened species
vascular plants see vascular plant species
plywood, 24, 340, 341, 360
defined, 526
technology investments, 385
see also wood-based panels
pointed-bud mallee (Eucalyptus horistae), 160
poles, 199, 201, 203, 526
policy frameworks, 26, 29, 31, 38, 471–473 see also legislation and legal/non-legally binding instruments
Pomaderris species, 126
poplar gum (Eucalyptus platypylla), 144
population size (small) as threat, 119, 124–125, 147, 148–149
Poracantha, 244
possoms see common brushtail possum; Leadbeater's possum
powderbark wandoa (Eucalyptus accedens), 160
predation, 119, 124, 130, 133
by sugar gliders, 129–131
prescribed burning, 249, 258, 259–261, 288, 306, 526
private CAR reserves
defined, 90
forest area, 90–93
private forest, 526
area, 3, 45, 54–56
area available/suitable for commercial wood production, 167, 172–173, 179
area by crown cover class, 56
area by forest category, 56, 57
area by jurisdiction, 55
area under private conservation covenant, 95
commercial plantations, 57
conservation covenants, 81, 82, 90, 92, 94–95, 519
defined, 38, 526
fire, 266–268
forecast log supply, 209, 210
harvest yield, 196–197
importance for supply of hardwood logs, 186
managed for conservation objectives, 89, 95
management in Tasmania, 490
policy frameworks, 31
public access for recreation and tourism, 388, 389
regeneration/re-stocking, 228–229, 230, 232, 233, 235
Private Forests Tasmania, 490
private investment capital, 24, 482, 485 see also investment production see harvest volume (forest wood products);
non-wood forest products; wood products and production
productive capacity of forest ecosystems, 166
indicators, 514
Prostanthera albohirta, 117
protected areas, 81–100
categories, 82
defined, 82, 527
forest area in protected area categories, 81–100
international programs and targets, 95–100, 500
protected by prescription (defined), 90, 527
protection processes, 5, 81
see also biodiversity conservation; Comprehensive, Adequate and Representative (CAR) reserve system; conservation covenants; Defence estate; National Reserve System (NRS); nature conservation reserves; Ramsar wetland sites; World Heritage List
protected species see Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act); threatened species
Psyllids, 245, 247
Ptilotus pyramidatus, 117
public forest see multiple-use public forest
public participation see community participation
public perceptions see community attitudes
Puccinia psidii, 253, 350 see also myrtle rust (Austropuccinia psidii)
Pulplogs, 181, 182 defined, 527
forecast log supply, 209–214
tree species, 184
type, 205, 336–339
Pulwood, 163, 380, 527 see also pulplogs
PyroCUMULonimbus events, 269–270
Quambalaria coyrecup, 247
Queensland Aboriginal and Torres Strait Islander land trusts
lands, 21, 412, 418, 419
Queensland bluegum (Eucalyptus tereticornis), 144
Queensland Parks and Wildlife Service, 144, 389
Queensland western white gum (Eucalyptus argophloia), 154, 160
Radiata pine (Pinus radiata), 35, 184, 244, 246
rainfall, 33, 251 see also drought; water quantity
Rainforest, 527
area, 45, 49, 50, 51
area by crown cover class, 52
area by IUCN protected-area categories, 86
area by jurisdiction, 53, 54
area in RFA regions, 59
area in World Heritage areas, 96
description, 34–35
distribution, 34–35, 47
forest-dwelling and forest-dependent vertebrate species, 111
types, 35
in World Heritage areas, 97
Ramsar wetland sites, 82, 97–98
native forest area, 5, 81, 97–98, 99
native forest types, 98
recovery plans, 116, 131
recreation and tourism, 388–396
activities, 391–396
case studies, 393, 394
etaculture, defined, 520
facilities range and use, 390–396
forest area available, 21, 388–389
Forest Sky Pier, 394
indicators, 515
Indigenous initiatives and employment, 423–424, 426
national goals, 31
visits to forest-based tourism destinations, 21, 390–396
see also multiple-use public forest
recycling, 18, 368–372
defined, 527
paper, 368–370, 371
timber, 368, 370–372
red ironbark (Eucalyptus sideroxylon and E. tricarpa), 160
red kangaroo (Macropus rufus), 218, 220, 346
red mahogany (Eucalyptus pelitica), 158, 160
Red-tailed Black-cockatoo (Calyptrorhynchus banksii graptogone), 139, 140
reforestation, 301, 314
defined, 314, 527
protective functions, 278
see also forest regeneration
regeneration (growth stage), 75, 76
regeneration (of forests) see forest regeneration
Regent Honeyeater (Anthochaera phrygia), 123
Regional Forest Agreement (RFA), 8, 38, 89–90, 469
CAR reserve system see Comprehensive, Adequate and Representative (CAR) reserve system
conservation criteria, 44
CRA process see Comprehensive Regional Assessments (CRA) defined, 527
growth stage information, 76
purpose, 58
threatened species protection, 116
Regional Forest Agreement (RFA) regions, 39
area of old-growth forests, 8, 75–79
differences in forest areas reported between SOFR 2013 and SOFR 2018, 59
forest area, 58–60
forest area by forest category, 58, 59
forest area by forest type, 59
forest area by jurisdiction, 58, 60
forest area by tenure, 60
total area, 58
Regional Forest Agreements Act 2002 (RFA Act), 26, 29, 38
Regional Wellbeing Survey, 446
Register of the National Estate (RNE), 405, 407
regrowth (growth stage), 75, 76, 527
regulatory frameworks, 26–27
renewable energy source, 365–366
reporting see data and datasets; monitoring
representative species monitoring, 135–146
reptile species, 111
ecological knowledge of, 114
demic, 109
extinct, 117
monitoring, 136–139
threatened, 118
ReptileWatch, 139
research and development
adoption of new technologies, 385–387
areas of investment, 384–385
capacity, 25, 385, 502–511
defined, 527
expenditure, 25, 381–387
investment in, 381–387
investment (indicators), 515
national bodies, 384, 502, 503–506
national goals, 31
researcher and technician numbers, 25, 502, 503, 506–509
state and territory agencies, 384, 385, 502, 506–509
university based, 384, 510–511
see also data and datasets
reserves see nature conservation reserves
resilience, 441–448
community, 20, 441, 445–447, 528
ecological, 528
individuals, 447
Responsible Wood Certification Scheme, 26, 471, 476
restocking see forest regeneration
restoration plantings, 7, 153, 155, 251
RFA see Regional Forest Agreement
Rhinella marina (cane toad), 136
Rhizophora stylosa (mangrove), 255
Rhodamnia rubescens, 11, 239, 253
Rhodomyrtus psidioides, 11, 239, 253
Risdon peppermint (Eucalyptus risdonii), 154
river red gum (Eucalyptus camaldulensis), 34, 140, 160, 245
river sheoak (Casuarina cunninghamiana), 33
RNE see Register of the National Estate
Royal Botanic Gardens, Kew, 155
Rubus species, 247
Rusts see myrtle rust (Austropuccinia psidii)
S
Safe Work Australia, 435
salinity, 11, 160, 255, 256, 528
salmon gum (Eucalyptus salmonophloia), 160
sandalwood, 37, 194
defined, 528
harvest volume, 194–195, 349
plantations, 160, 349
product value, 344
products, 215, 217–218, 348–349, 367
Santalum album, 160, 349
Santalum lanceolatum, 158, 160, 195, 217, 348, 349
tree-breeding case study, 162
Sarcophilus harrisii (Tasmanian devil), 136, 150
sassafras (Atherosperma moschatum), 387
sawlogs, 181, 182
defined, 528
forecast log supply, 208–214
harvest volume, 15–16, 185–186
from private native forests, 196–197
quota sawlogs, 187, 189
sustainable yield, 17–18, 187–196, 209
tree species, 184
value, 204, 336–339
sawmilling industry, 24, 381, 385, 408, 411, 442, 486, 528 see also wood products and production
sawnwood, 16, 17, 339–340, 528
consumption, 357, 358–359
imports and exports, 358–359, 363–364
see also sawlogs
Scylla species, 136, 350 see also mud crab industry
seed banks, 7, 147, 150, 153, 154–155
seed orchards, 7, 44, 153, 154, 158, 159, 160, 162, 163, 528
seed production areas, 155
seed trees, 175, 528
seed zones, 154
seeds (forest product), 217
Selaginella andrewsi (spikemoss), 126
selection harvesting, 14, 168, 175, 177, 178, 528
senescent (growth stage), 76, 528
sheoaks see Casuarina
shelterwood systems, 168, 175, 177, 178, 225
area harvested, 14
defined, 528
shining gum (Eucalyptus nitens), 148, 156, 158, 160, 184, 245, 300, 308
silvertop ash (Eucalyptus sieberi), 34
silviculture
defined, 528
systems, 14, 174–178, 225, 528
thinning, 299
see also forestry operations; harvesting (forest wood products)
Sirex species, 244
skins see animal products
slash pine (Pinus elliottii), 184
socio-economic benefit indicators, 334–335, 515–516
SOFR series see Australia’s State of the Forests Report (SOFR) series
softwood plantations
area, 12, 45, 46, 50, 57, 179–182
area by jurisdiction, 54, 57
climatic regions, 36
establishment/re-establishment, 232–233
fire, 269–270
forecast plantation log supply, 211–214
harvest volume, 15–16, 185–186
investment in, 24, 377–378
national goals, 31
pests and diseases, 244–245, 246\
species, 36
softwoods, 529
consumption of sawn wood, 357, 358–359
main uses, 36
soil acidification, 128, 322, 517
soil compaction, 291–292, 294, 519, 529 see also soil physical properties
soil degradation, 529
soil erosion, 274, 279–288
compliance with requirements, 286–288
fire and, 288
hazard assessment, 283–286
knowledge base, 285
protective legal instruments and regulatory framework, 279–283, 286–288
regulatory framework, 279–283
soil moisture regime, 529
soil physical properties, 274, 289–294
assessment of risk to, 293
impact of forestry operations, 289–290
knowledge base, 294
protection and maintenance, 275–276, 289–294
protective legal instruments and regulatory framework, 290–292
soil resources conservation and maintenance, 10, 274
indicators, 514
knowledge bases, 285, 294
protective legal instruments and regulatory framework, 276–277, 279–283, 286–288, 290–292
see also soil erosion; soil physical properties
soil salinisation see salinity
soils in forested areas, 30
SongMeters, 145
South Australian Aboriginal Lands Trust lands, 418
southern blue gum see Tasmanian blue gum (Eucalyptus globulus)
Southern Cross University Forest Research Centre, 510
southern forest bat (Vespadelus regulus), 141–142
southern mahogany (Eucalyptus botryoides), 160
Southern Tree Breeding Association (STBA), 156
sparse woodland see Other woody vegetation
Special Areas Strategic Plan of Management 2015, NSW, 466

species

critically endangered see Critically Endangered species (category)
edangered see Endangered species (category)
extinct see Extinct species (category)
forest-dependent see forest-dependent species
forest-dwelling see forest-dwelling species
introduced see introduced species
threatened see threatened species
vulnerable see vulnerable species

species distribution prior to European settlement, 167

species diversity
defined, 529
indicators, 44, 513

species in Australia, 109
distribution prior to European settlement, 147
forest dwelling, 5, 110–111

Species Profile and Threats Database (SPRAT), 117
Sphaeropsis sapinea (Diplodia canker), 246
spikemoss (Selaginella andrewsi), 126
spinning gum (Eucalyptus perriniana), 154, 160

spiritual needs and values
indicators, 516

spotted gums, 34, 158, 160, 184

St Bees Island National Park, 144

stand height see under forest height

State Centre of Excellence on Climate Change, Woodland and Forest Health, Murdoch University, 511

state forests see multiple-use public forest

state governments see jurisdictions

‘state of the forests’ reports
Australian national, 26, 27, 29, 40 see also Australia’s State of the Forests Report (SOFR) series
Australian states and territories, 26
indicators and reporting format, 40, 513–516
international, 26, 29

State of the forests Tasmania reports, 78, 79

State of the World’s Forest Genetic Resources, 26
states and territories see jurisdictions

Strategic Plan for Biodiversity 2011–2020, 5, 81, 98
streamflow, 274, 298–300, 307

subtropical rainforest, 35 see also rainforest

sugar glider (Petaurus breviceps), 116, 126, 129–131
sugar gum (Eucalyptus cladocalyx), 160

survey methods see acoustic detection; camera trapping; LIDAR

sustainable forest management, 39–40
criteria and indicators, 1, 40, 467, 491, 495, 497, 513–516
defined, 39, 520, 529
see also forest management

Sustainable Timber Tasmania, 154, 158

sustainable yield see under harvest volume

swamp gum see black gum (Eucalyptus ovata)

swamp peppermint (Eucalyptus rudwayi), 160

swamp sheoak (Casuarina obesa), 160

swamp walloby (Wallabia bicolor), 144

swamp yate (Eucalyptus occidentalis), 160

Swift Parrot (Lathamus discolor), 116, 123, 126, 129–131, 136

Sydney blue gum (Eucalyptus saligna), 160, 184, 247

Syncarpia (forest type), 35

System of Integrated Environmental and Economic Accounts framework (SEEA), 352
threats/threatening processes, 115, 116–117, 119, 122, 123–126, 529, 530
forest fragmentation, 102
introduced species, 242
isolation of populations, 147–150
key threatening processes, 116–117, 243, 247, 523
threat categories for ecological communities, 127–128
threat ratings and categories for fauna and flora, 119, 122
see also pests and diseases
Thylogale billardierii (Tasmanian pademelon), 136, 218, 220, 347
timber
defined, 530
processing facilities capital investment, 24, 379–380, 381, 385
recycled, 370–372
sawn wood see sawlogs; sawnwood
special-species timbers, 190, 194–195, 387
value of standing timber, 352, 353–354, 483, 484
see also harvest volume (forest wood products); wood products and production
timber harvesting see harvesting
Tourism Australia, 21, 390
trade policy, 484 see also imports and exports
tree breeding, 7, 44, 152, 153, 155, 156–163
northern sandalwood case study, 162
research capacity, 506–507, 508
Tree fern (Dicksonia antarctica), 136, 217, 218
tree height see forest height
tree improvement programs, 153, 156–158
TREEPLAN® genetic evaluation system, 156, 161
Trichosurus vulpecula (common brushtail possum), 136, 144, 220, 221, 222, 243
tropical cyclones, 11, 158, 240, 249
tropical rainforest, 35
see also rainforest
Trust for Nature, 92, 94
20 Million Trees Programme, 278

U

Uluru-Kata-Tjuta National Park, 421, 423
underwater harvesting, 387
UNESCO World Heritage List see World Heritage List
United Nations Convention on Biological Diversity see Convention on Biological Diversity
United Nations Food and Agriculture Organization see Food and Agriculture Organization
United Nations Forum on Forests, 161
Global Forests Goals, 26, 500
United Nations Framework Convention on Climate Change, 10, 314, 315, 500
United Nations Strategic Plan for Biodiversity 2011–2020, 5, 81, 98
United Nations Sustainable Development Goals, 26, 500
university-based research, 510–511
University of Queensland Centre for Future Timber Structures, 385
University of the Sunshine Coast, 160, 162
unplanned fire see bushfire
unresolved tenure
defined, 38, 530
forest area, 55, 56
Uraba lugens (gumleaf skeletoniser), 245
urban development, 70, 74
Ureda rangelli see Puccinia psidii

V

value-adding, 17, 336, 342, 523, 530
variable retention systems
area harvested, 14
defined, 530
varnished gum (Eucalyptus vernicosa), 154
vascular plant species, 5, 109, 112
conservation status changes, 123–126
ecological knowledge of, 109, 113–114
monitoring, 136–139
threat ratings and categories, 119
threatened, 115, 118
vascular plant (defined), 530
vegetation mapping see National Vegetation Information System
vegetation, non-forest, 30
venison see deer industry
vertebrate pests, 11, 242, 343
impact on forest health, 239, 241–243
industries based on, 343, 345–346
vertebrate species
conservation status changes, 123–126, 129
ecological knowledge of, 109, 111, 113–114
introduced species, 242
threat ratings and categories, 119, 122
threatened, 115, 117, 118
Vespadelus darlingtonii (large forest bat), 141–142
Vespadelus pumilus (eastern forest bat), 141–142
VicForests, 376
visits to forest-based tourism destinations, 21, 390–396
vocational education and training see education and training programs
Vulnerable ecological communities, 126
Vulnerable species (category), 116, 117, 123, 530 see also threatened species

W

Wadeye Aboriginal community, 351
wages in forest sector, 19
Wallabia bicolor (swamp wallaby), 144
wallabies
adverse impact in forests, 243
hunting licences, 220–221
product volume and value, 346–347
sustainable management of harvest, 218, 220
Wally’s wattle (Acacia pataczekii), 154
wandoow (Eucalyptus wandoow), 80, 160
Wardeken Indigenous Protected Area, 416–417
warm temperate rainforest, 35 see also rainforest
Waroona bushfire, Western Australia, 269–270
waste
initiatives to reduce wood waste, 372
recovered paper, 368–369
timber, 370–372
see also landfill; recycling
water quality, 274, 275–278, 296, 301–310
assessment of risk to, 305–306
case study, 309
compliance with requirements, 308, 310
protective legal instruments and regulatory framework, 302–305, 466
water quantity, 295–300 see also water yield
water resources conservation and maintenance, 10, 275–278
indicators, 514
knowledge bases, 297–298, 301, 306–307
national goals, 31
protective legal instruments and regulatory framework,
276–277, 295–297, 302–305
see also water quality; water quantity; water supply
water supply, 277–278, 295–300, 466
national goals, 31
valuation of water from forested catchments, 355–356
water yield, 274, 297–298, 356
defined, 530
and forest age, 356
impact of bushfire, 274
impact of strip thinning, 299
and plantation area, 300
valuation of, 355–356
see also water quality
WaterNSW, 466
weather see climatic events
weeds, 11, 127, 239, 247–249
Weeds of National Significance, 247, 248, 249
weeping paperbark (Melaleuca leucadendra), 34
West Kimberley National Heritage place, 408, 409
Western Arnhem Land Fire Abatement project, 330–331
western grey kangaroo (Macropus fuliginosus), 218, 346
wetlands, 97, 530 see also Ramsar wetland sites
white banana prawn (Fenneropenaeus merguiensis), 136
white cypress pine (Callitris glaucophylla), 33
white mangrove (Avicennia marina), 34
Whole-Tree Chambers, 510
wildfire see bushfire
wildflowers, 217, 350
wildlife corridors, 102, 150, 251, 274, 278, 301, 531
wind and storm damage, 249
wood, 531
community perceptions of environmental friendliness, 22, 23,
428, 429
wood-based panels, 24
consumption, 357, 360
imports and exports, 363–364
production, 360
production volume and value, 16, 17, 340, 341
technology investments, 385
see also plywood
wood harvesting see harvesting
wood products and production, 24, 357
annual harvests, 15–18, 187–196, 199–203 see also harvest volume (forest wood products)
carbon stored in, 10, 313, 314, 315, 316–317, 321, 323–324
certification, 26
chain-of-custody certificates, 26
consumption, 18
defined, 522
economic dependence of Indigenous communities, 453–457
employment, 19–22, 23, 431–433, 449
fatalities and injuries, 438, 439
forecast plantation log supply, 209–214
imports and exports, 18, 357–366
initiatives to reduce wood waste, 372
investment in, 24, 379–380, 381, 385, 486
investment indicators, 515
main species and uses, 36
national goals, 31
national overview, 199–205
native forest area available/suitable, 13, 167, 168–174
native forest productive capacity management, 166
other wood products, 199
paper products see paper and paperboard
plywood see plywood
pulpwood see pulps; pulpwood
recycling, 18, 368, 370–372
research and development expenditure, 25, 382–383
sawlogs see sawlogs
sawnwood, 16, 17, 339–340, 528
socio-economic benefit indicators, 515
special-species timbers, 190, 194–195, 387
trees of economic importance, 148, 163
value, 17, 200–201, 204–205, 336–342, 352
value added to economy, 17, 336, 342
volume see harvest volume
wood-based panels see wood-based panels
woodchips, 363–364, 372, 531
see also forest industries; harvest volume
wood waste see waste
woodchips, 372
defined, 531
imports and exports, 363–364
woodland forest, 30
area, 3, 4, 65, 51
area by jurisdiction, 51, 53
area by native forest type, 52
area by tenure, 56
area under private conservation covenant, 95
crown cover, 3, 30, 50, 51
defined, 30, 531
distribution, 52
forest-dwelling and forest-dependent vertebrate species,
110, 111
uses, 30, 53
worker characteristics see under employment
workforce education see education and training programs
World Conservation Monitoring Centre Protected Areas Programme, 500
World Database on Protected Areas, 500
World Heritage Areas, 97, 406
area, 97, 408
forested, 95, 408, 421
management arrangements, 421
native forest area, 5, 96, 97, 191
World Heritage List, 81, 82, 95, 97
World Intellectual Property Organization, 161
World Trade Organization, 484
World Wide Fund for Nature, 146

Y

Yarra pygmy perch (Nannoperca obscura), 139
Yasi (tropical cyclone), 11, 158, 240, 249
yellow gum (Eucalyptus leucoxylon), 140
yellow stringybark (Eucalyptus muelleriana), 160
York gum (Eucalyptus laxophlebo), 160