

Management Standards and Procedures for timber harvesting operations in Victoria's State forests 2019

Consultation draft



Cover photo

Manna Gum (*Eucalyptus viminalis*) stand in wet eucalypt forest, Dandenong Ranges, Victoria

Acknowledgment

We acknowledge and respect Victorian Traditional Owners as the original custodians of Victoria's land and waters, their unique ability to care for Country and deep spiritual connection to it. We honour Elders past and present whose knowledge and wisdom has ensured the continuation of culture and traditional practices.

We are committed to genuinely partner, and meaningfully engage, with Victoria's Traditional Owners and Aboriginal communities to support the protection of Country, the maintenance of spiritual and cultural practices and their broader aspirations in the 21st century and beyond.



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Glossary

All **bold** terms included in this document are defined within the Code Glossary.

Acronyms

ASL	above sea level
B	buffer
CAR	comprehensive, adequate and representative reserve system
cm	centimetres
DBHOB	diameter at breast height (1.3m) over bark
DC	designated catchment identified in a forest management plan
DELWP	Victorian Department of Environment, Land, Water & Planning
EVC	ecological vegetation class
F	filter or filter strips
FMA	forest management area
FMZ	forest management zone
GMZ	general management zone
GRU	geographic representation unit
ha	hectares
HEMS	high elevation mixed species forest
km	kilometres
LFP	Long Footed Potoroo
m	metres
mm	millimetres
RFA	regional forest agreement
SAP	special area plan
SMZ	special management zone
SPZ	special protection zone
SWSC	special water supply catchment

1. Introduction

1.1 Scope

1.1.1.1 The **Management Standards and Procedures** apply to all commercial **timber harvesting operations** conducted in Victoria's **State forests** where the **Code** applies.

1.2 Role

1.2.1.1 This document provides standards and procedures to instruct managing authorities, harvesting entities and **operators** in interpreting the requirements of the **Code**.

1.2.1.2 These **Management Standards and Procedures** do not take the place of the mandatory actions in the **Code**.

1.2.1.3 Where there is a conflict between the **Code** and these Management Standards Procedures, the **Code** shall prevail.

1.3 Application

1.3.1.1 Requests for exemptions or temporary variations to these **Management Standards and Procedures** will demonstrate to the satisfaction of the **Minister** or **delegate** that they are consistent with the Operational Goals and Mandatory Actions of the **Code**.

1.3.1.2 The **Minister** may authorise **delegates** to consider and **approve** (or not approve) applications on their behalf.

1.4 Procedure for seeking exemptions or temporary variations

1.4.1.1 The **managing authority** must submit an application form and any other required or supporting information the **Minister** or authorised **delegate** where an exemption or temporary variation to these **Management Standards and Procedures** is sought.

1.4.1.2 The **Minister** or **delegate** will consider the request, seeking additional information where required, and respond by providing a signed approval request form to the submitter.

1.4.1.3 Where the request is not **approved**, the response will include a justification of the decision.

1.4.1.4 The **Minister** or **delegate** will maintain a register of the outcomes for all exemption or temporary variation requests.

2. Planning and Record Keeping

2.1 FMZ and Planning Information

- 2.1.1.1 When planning **timber harvesting operations**, for information regarding the FMZ Scheme and locations of existing Special Management Zones (SMZ) or Special Protection Zones (SPZ), the **managing authority** will refer to the FMZ100 geospatial layer published on the Corporate Spatial Data Library.
- 2.1.1.2 Where an existing SPZ or an **exclusion area** within an SMZ is based on a modelled value or incorrectly mapped geographic feature and is determined not to exist in the field or is incorrectly located, the managing authority may notify the **Secretary** (or **delegate**) prior to commencement of the **timber harvesting operation** requesting and amendment to the boundary of the SPZ or **exclusion area**.

2.2 Communication and engagement

- 2.2.1.1 The **managing authority** must make maps and schedules of **coupes** that have been selected for **timber harvesting operations** and associated access roading available for public scrutiny prior to commencement of the operations. This information must provide:
- clear maps showing the location of coupes and major access roading (including extensions or upgrading of the permanent road network); and
 - approximate timing and duration of timber harvesting operation schedules.
- 2.2.1.2 Consult the following parties during the establishment or amendment of plans, allowing adequate time to ensure interests are considered and operational arrangements are resolved prior to commencement of operations:
- relevant bee keepers or bee keeping associations;
 - relevant Department regions regarding roading, burning and other relevant land management activities;
 - relevant water authorities when applying chemicals in a declared **special water supply catchment**; and
 - relevant water supply authorities when coupes are proposed to occur within special water supply catchments subject to special area plans in the Benalla-Mansfield FMA and North East FMAs; and
 - Melbourne Water regarding any timber harvesting operations which have potential to impact on the Water Resource Values within the Bunyip River, Tarago River, Thomson River and Yarra Tributaries State forests.

2.3 Forest Coupe Plans

- 2.3.1.1 **Forest Coupe Plans** prepared for timber harvesting operations must:
- state the net area that is planned to be harvested or tended;
 - state the start date and season during which operations are scheduled to occur;

- c) identify the silvicultural systems or **tending** methods to be employed;
- d) identify requirements for the location*, design, construction, maintenance and use of roads, and closure of **temporary roads**;
- e) identify requirements for the design, siting*, construction, use, and **rehabilitation** of log **landings** and dumps and, where necessary, siting and rehabilitation measures for major **snig tracks**;
- f) describe **regeneration** procedures to be applied;
- g) identify and describe management actions for all relevant **coupe** values specified within the **Code**, these **Management Standards and Procedures** and the **FMZS**;
- h) describe measures employed to protect **biodiversity** such as:
 - i. **habitat tree** retention;
 - ii. provision for the continuity and replacement of old **hollow**-bearing trees within the harvestable area; and
 - iii. retention of long-lived **understorey** species in appropriate numbers and configurations to allow for the regeneration of the vegetation types that existed within the **coupe** before the timber harvesting operation commenced.
- i) describe soil erosion hazard classes present within the **coupe** and measures employed to protect and rehabilitate soils and to maintain water quality and **river health**.

2.3.1.2 **Forest Coupe Plans** must include a map which clearly and accurately identifies:

- a) the net area that is planned to be harvested;
- b) areas within and adjacent to a **coupe** that are to be excluded from harvesting and associated activities, or to which special prescriptions apply (including **biodiversity** protection or habitat enhancement, water quality and aquatic habitat protection, landscape protection, or cultural heritage sites and places); and
- c) **waterway**, historic tramway and water race crossing locations.

2.3.1.3 **Forest Coupe Plans** prepared for **road construction** or **significant road improvement operations** also identify:

- a) the class of road to be constructed / improved;
- b) maximum clearing width;
- c) sections of the road subject to narrowed or increased easements;
- d) methods and location of proposed crossings and drainage structures; and
- e) the FMZs impacted upon and any requirements relevant to approvals associated with roading operations within SMZ and SPZ.

* The location of temporary roads and **coupe infrastructure** may be specified in the field and added subsequently to the commencement of operations.

2.4 Coupe Size and configuration

2.4.1 Clearfall, seed tree or shelterwood 1 coupes

- 2.4.1.1 The maximum size of **clearfall, seed tree or shelterwood 1 coupes** is 40 ha **net harvested area**.
- 2.4.1.2 The maximum aggregated size of coupes that contain **clearfall, seed tree or shelterwood 1** is 120 ha **net harvested area** within a 5 year period.

2.4.2 Shelterwood 2 coupes

- 2.4.2.1 **Shelterwood 2 coupes** may exceed 40 ha **net harvested area** if adequately stocked with eucalypts that are 5 or more years old.

2.4.3 Thinning coupes

- 2.4.3.1 The maximum size of a **thinning coupe** is 120 ha **net harvested area**.

2.4.4 Single tree selection coupes

- 2.4.4.1 Single tree selection coupes may be of any size.

2.4.5 Uneven-aged coupes

- 2.4.5.1 The maximum size of an **uneven-aged coupe** is 120 ha **net harvested area**.
- 2.4.5.2 No gaps or patches created by seed tree operations are to be more than 20 ha in area.
- 2.4.5.3 The cumulative area of gaps between 1 and 20 ha must comprise no more than 33 % of the **net harvested area**.
- 2.4.5.4 More than 66 % of the **net harvested area** must comprise areas stocked by **basal area** retention with the balance stocked with regeneration.

2.4.6 Salvage coupes

- 2.4.6.1 Salvage coupes may exceed standard area limits in accordance with the fire salvage harvesting area limits of Clause 8.1.3.1.

2.4.7 All coupe types

- 2.4.7.1 20 m is the minimum width of vegetation to be retained between **coupe** aggregates that have both been harvested within the last 5 years.
- 2.4.7.2 Incorporate adjacent partially stocked or unstocked areas in the **coupe** for **regeneration** provided that the **coupe** is within the **coupe** size limit.

3. Water Quality, River Health and Soil Protection

3.1 Waterway classification

- 3.1.1.1 Use the following categories when determining **buffer** (B) and **filter** (F) widths for **waterways** within and immediately adjacent to each **coupe**. Aids to the identification of each class of waterway are provided in the **Code** Glossary.
- a) **Permanent streams, pools and wetlands.**
 - b) **Temporary streams.**
 - c) **Drainage lines.**

3.2 Soil Erosion and Water Quality Risk Assessment

3.2.1 Statewide

- 3.2.1.1 Conduct field assessments to determine the soil erosion hazard and soil **permeability** classifications for an area proposed for any soil disturbing **timber harvesting operations** as follows.
- 3.2.1.2 Collect soil profile samples that reflect the variety of soils represented within the **coupe**.
Note: Significant changes in **forest** structure and composition often indicate a variation in soil type.
- 3.2.1.3 Score each soil factor using **Table 1 Soil susceptibility to breakdown** and **Table 2 Soil permeability** for each horizon within the soil profile to the anticipated depth of disturbance.
- 3.2.1.4 Calculate the soil susceptibility to breakdown rating for horizons A and B (and C if likely to be disturbed in operations) using **Table 1 Soil susceptibility to breakdown**.
- 3.2.1.5 Calculate the soil permeability rating for horizons A and B (and C if likely to be disturbed in operations) using **Table 2 Soil permeability**.
- 3.2.1.6 Calculate the soil erosion site factor rating for the site using **Table 3 Soil erosion site factor**. Use **Figure 1 Rainfall erosivity** contours in non-SI units for Victoria to determine the erosivity index.

- 3.2.1.7 Calculate the **soil erodibility** classification for horizons A and B (and C if likely to be disturbed in operations) using **Table 4 Soil erodibility classification**.
- 3.2.1.8 Calculate the soil erosion hazard classification for horizons A and B (and C if likely to be disturbed in operations) using **Table 5 Soil erosion hazard classification**.
- 3.2.1.9 Calculate the soil **permeability** classification for horizons A and B (and C if likely to be disturbed in operations) using **Table 6 Soil permeability classification**.
- 3.2.1.10 Calculate the overall soil category for horizons A and B (and C if likely to be disturbed in operations) using **Table 7 Overall soil category**.
- 3.2.1.11 Use the overall soil category for the horizon with the highest category to determine water quality risk as shown in **Table 8 Water quality risk**.

3.3 Waterway Protection

3.3.1 Statewide

- 3.3.1.1 Apply appropriate protection to class of **waterway** as outlined in **Table 9 Minimum widths in metres for buffers (B) and filter (F) strips applicable to various waterway categories, in relation to water quality risk and slope**.

Notes:

- Slope is the average slope of the **coupe** area in the vicinity of the water body.
- Buffers and **filter strips** must be applied to each waterway class regardless of the origins of the channelling.
- The width of buffer areas and **filter strips** must be measured in the horizontal plane, from the edge of the saturated zone (at time of harvesting) or channel (whichever is greater), on each side of the waterway.

3.3.2 Bendigo FMA

- 3.3.2.1 **Drainage lines** are considered to be present if banks and/or eroded sections greater than 30 cm deep and greater than 10 m long exist. Distinctive **riparian vegetation** such as River Red Gum (*Eucalyptus camaldulensis*) will generally be absent. Where sections meeting these criteria occur within 50 m, the interconnecting depression is treated as part of the drainage line.
- 3.3.2.2 Machinery movement within 10 m of depressions occurring above **drainage lines** will be directed along the contour.

3.3.3 Mid Murray FMA

- 3.3.3.1 Apply an **exclusion area** within 60 m from the high bank of the Murray River.
- 3.3.3.2 Apply an **exclusion area** within 40 m from the high bank of the Gunbower Creek and the Ovens River.
- 3.3.3.3 Apply a 20 m **buffer** to main rivers, anabranches, lakes, billabongs and lagoons that maintain permanent open water at minimum river flows.
- 3.3.3.4 When water is present, a 10 m **buffer** applies to **temporary effluent** and/or **confluent streams**.
- 3.3.3.5 When water is absent, a 10 m **filter** applies to temporary effluent and/or **confluent streams**.
- 3.3.3.6 Temporary effluent and/or **Confluent streams** have sharply defined channels, relatively deep flowing water and overland flow in the immediate vicinity during flood.
- 3.3.3.7 If distinctive **riparian vegetation** is present and wider than 3.3.3.1, buffers and filters are measured from the edge of the distinctive **riparian vegetation**.

3.4 Slope

3.4.1 Slope restrictions

- 3.4.1.1 Apply an **exclusion area** from slopes over 30 degrees.
- 3.4.1.2 Apply an **exclusion area** from slopes over 25 degrees in the East Gippsland FMA in areas with granite-based soils.
- 3.4.1.3 Up to 10% of the net harvest area of a **coupe** can contain areas greater than the slope limits referred to in 3.4.1.1, 3.4.1.2 and **Table 11 Water supply protection areas**, providing the risk of mass soil movement into waterways has been managed.

3.5 Water supply protection areas

- 3.5.1.1 Apply the slope limits, seasonal closures, buffer and filter strip widths and other relevant management actions specified in **Table 11 Water supply protection areas** for **timber**

harvesting operations and associated roading and regeneration in **water supply protection areas**.

- 3.5.1.2 Refer to **Table 11 Water supply protection areas** for actions that apply to water supply protection area SMZs in the Benalla-Mansfield FMA, the East Gippsland FMA and Midlands FMA.
- 3.5.1.3 Where any proposed **timber harvesting operations** are not in accordance with clauses 3.5.1.1 or 3.5.1.2, obtain exemption approval from the **Minister** or **delegate** in accordance with Section 1.4.
- 3.5.1.4 Special water supply catchments and water supply protection areas not listed in **Table 11 Water supply protection areas** do not require protection in addition to existing **Code** requirements.
- 3.5.1.5 In addition to **Table 11 Water supply protection areas**, in the Bunyip, Thomson and Tarago **special water supply catchments** and the Yarra Tributaries **State forests** the area harvested must not exceed the following limits measured as a rolling average:
- a) Thomson - **Ash** forests 150 ha/year, **Mixed species forests** 15ha/year;
 - b) Tarago - **Ash** forests 55 ha/year, **Mixed species forests** 23ha/year;
 - c) Yarra Tributaries – **Ash** forest 52 ha/year, **Mixed species forests** 15 ha/year; and
 - d) Bunyip – **Ash** forest 15 ha/year, **Mixed species forests** 15 ha/year.
- 3.5.1.6 In addition to **Table 11 Water supply protection areas**, harvesting in the Learmonth Creek special water supply catchment must not exceed 7 ha per annum in **Ash forests** or 3 ha per annum in **Mixed species forests**, averaged over the previous 10-year period.

4. Biodiversity

4.1 Habitat Retention

4.1.1 Statewide

- 4.1.1.1 Retain **habitat trees** in accordance with the relevant FMA summary provided in **Table 12 Habitat tree prescriptions**.
- 4.1.1.2 Trees retained in **buffers** or **exclusion areas** that have been extended beyond minimum required widths or radius can contribute to **habitat tree** retention requirements.
- 4.1.1.3 Retain all living trees equal to or greater than 2.5 m DBHOB (**large trees**) and protect them from the direct effects of **timber harvesting operations** and regeneration burning. This includes not deliberately felling, falling into or damaging large trees during harvesting and extraction, and ensuring slash is not accumulated within 3m of the base of **large trees** immediately prior to regeneration burns.
- 4.1.1.4 Where possible, incorporate **large trees** in retained patches of **habitat trees** or expanded **buffers** or **exclusion areas**.
- 4.1.1.5 Include all **large trees** in a Large Tree Register.

4.1.2 Benalla/Mansfield FMA and North East FMA

- 4.1.2.1 When selecting **habitat trees**, prioritise live **hollow**-bearing trees where they are present and trees of younger age classes that are likely to develop **hollows** in the longer term.
- 4.1.2.2 Where possible retain **dead** trees for **habitat trees**.
- 4.1.2.3 Retain **habitat trees** adjacent to areas of high value habitat and areas most easily protected from damage during harvesting and **regeneration** operations.
- 4.1.2.4 **Habitat trees** may be retained in groups/patches dispersed across the **coupe**.
- 4.1.2.5 **Seed trees** may be counted as **habitat trees**.

4.1.3 Bendigo FMA and Box-Ironbark forests in the Midlands FMA.

- 4.1.3.1 Permanently retain:
 - a) all trees (both standing **dead** or living) greater than 20 cm DBHOB with visible **hollows** where safe and practicable to do so. These trees may count towards retention requirements in clause (b) and (c);
 - b) at least 10 living trees per hectare between 30 cm and 39.9 cm DBHOB;
 - c) where they exist:
 - i). 2 living trees per hectare between 40 cm and 49.9 cm DBHOB inclusive; and
 - ii). 2 living trees per hectare between 50 and 59.9 cm DBHOB inclusive.
- non-merchantable trees with healthy **crowns** should be preferentially retained;

- d) all trees greater than 60 cm DBHOB in high quality sawlog harvesting operations;
- e) all trees greater than 40 cm DBHOB in low quality sawlog and firewood harvesting operations;
- f) within existing SMZ, all trees greater than 40 cm DBHOB in high and low quality sawlog and firewood harvesting operations;
- g) all standing **dead** trees greater than 40 cm DBHOB;
- h) all living Yellow Box, Fryers Range Scentbark and Bealiba Ironbark trees. These trees may count towards retention requirements.

4.1.3.2 A whole of **coupe** approach should be adopted (numbers averaged over **coupe** area) to ensure that the best **habitat trees** are retained, including where these occur in groups.

4.1.3.3 Firewood harvesting within a SMZ must be managed to ensure coarse woody debris levels are not reduced below pre-harvest levels.

4.1.3.4 All log sections larger than 40cm **diameter** with **hollows** larger than 10cm **diameter** must be retained.

4.1.3.5 The period between the next and subsequent sawlog harvesting operations will be at least 25 years to allow recruitment across all habitat classes. **Habitat trees** intended for permanent retention will not be permanently tagged or labelled. It is expected that these trees will be evident from their form.

4.1.4 Central Highlands FMAs

4.1.4.1 When selecting **habitat trees**, prioritise **hollow-bearing trees** where they are present and trees most likely to develop **hollows** in the short term.

4.1.4.2 Scatter **habitat trees** across the timber harvesting **coupe** in mixed-species **forest**.

4.1.4.3 Where possible, retain potential **hollow-bearing ash** eucalypts in clumps to increase their protection from exposure, windthrow and fire.

4.1.4.4 No gap between retained vegetation is to be greater than 150 m.

4.1.4.5 Retain **habitat trees** where they can be most easily protected from damage during harvesting and site preparation treatment.

4.1.5 East Gippsland FMA and Gippsland FMAs

- 4.1.5.1 When selecting **habitat trees**, prioritise old living trees with a range of **hollow** sizes. Where these are absent or not present in sufficient numbers, prioritise trees that are old enough to develop hollows during the next 50 years.
- 4.1.5.2 Stags and younger, smaller trees may be counted as **habitat trees** if trees of the type described in 4.1.5.1 are absent or not present in sufficient numbers.
- 4.1.5.3 Where possible, retain **habitat trees** in small clusters which include younger **regrowth** and **understorey**.
- 4.1.5.4 Distribute **habitat tree** clusters across the **coupe** with consideration of the proximity of other retained vegetation and arrangement of trees of the type described in 4.1.5.1.

4.1.6 Horsham FMA

- 4.1.6.1 Retain trees currently being utilised by **wildlife** as a priority over potential **habitat trees** and **dead** trees.
- 4.1.6.2 **Habitat trees**;
 - a) are large actively growing trees with a spreading form; and/or
 - b) have **hollows** present and forming.
- 4.1.6.3 Trees growing in ephemeral **wetlands** and within 20 m of the edge of the wetland may only be harvested using single tree selection. A 20 m **buffer** from the water line or saturated zone, wherever it occurs at the time of harvesting, also applies.
- 4.1.6.4 In areas of Red-tailed Black-Cockatoo potential habitat that is not protected by existing SPZ or SMZ, do not remove any large hollow-bearing trees or preferred stringybark species (Brown and Desert Stringybark) with DBHOB > 45cm.

4.1.7 Midlands FMA, except the Box Ironbark forests

- 4.1.7.1 In the non **Box Ironbark forests**, the **habitat tree** numbers in **Table 12 Habitat tree prescriptions** are the maximum required.
- 4.1.7.2 Prioritise retention of **hollow**-bearing trees or gum species as **habitat trees**.

4.1.8 Mid Murray FMA

- 4.1.8.1 **Habitat tree** requirements in **Table 12 Habitat tree prescriptions** are the minimum requirement.
- 4.1.8.2 When selecting **habitat trees**, prioritise **hollow**-bearing trees where they are present and trees most likely to develop **hollows** in the short term.

4.1.8.3 In addition to **habitat tree** requirements in **Table 12 Habitat tree prescriptions**, retain all trees known to be used for nesting by significant **fauna** (e.g. Superb Parrot and Regent Parrot).

4.1.8.4 Retain all naturally fallen wood and any **dead** standing trees with **hollows**.

4.1.9 Otway FMA

4.1.9.1 **Habitat tree** numbers in **Table 12 Habitat tree prescriptions** are a minimum requirement.

4.1.9.2 Retain existing and potential **habitat trees** in regularly configured clusters or on the edges of **coupes**.

4.1.9.3 Design **coupe** boundaries and **habitat tree** clusters so there is no more than 200 m between areas of retained habitat.

4.1.9.4 Where located on or adjacent to a **coupe** boundary, habitat patches are not included in the net harvest area of adjoining coupes.

4.1.10 Portland FMA

4.1.10.1 **Habitat trees:**

- a) are living;
- b) have a DBHOB greater than 30 cm;
- c) are fully **mature**;
- d) have existing **hollows** (in a minimum of 50% of trees retained for habitat); and
- e) cater for identified key species needs.

4.1.10.2 Prioritise retention of **habitat trees:**

- a) greater than 80cm **diameter**;
- b) in clusters rather than scattered throughout the **coupe**;
- c) located more than 20 m of any road, track or **coupe** boundary likely to be used as a fire break; and
- d) located in places that extend or link **filter strips**, streams or other retained areas.

4.1.10.3 Retain all **dead** trees if they contain **hollows** and are greater than 50 cm DBHOB. **Dead** trees are not counted in the minimum **habitat tree** requirements.

4.1.10.4 In areas of Red-tailed Black-Cockatoo potential habitat that is not protected by existing SPZ or SMZ, do not remove any large hollow-bearing trees or preferred stringybark species (Brown and Desert Stringybark) with DBHOB > 45cm.

4.2 Fauna and Flora

4.2.1 Detection-based management

- 4.2.1.1 Apply management actions for rare and threatened fauna and flora identified within areas affected by **timber harvesting operations** as outlined in **Table 13 Rare or threatened fauna and invertebrate prescriptions** and **Table 14 Rare or threatened flora prescriptions**.
- 4.2.1.2 Where evidence of the values listed in **Table 13 Rare or threatened fauna and invertebrate prescriptions** and **Table 14 Rare or threatened flora prescriptions** are identified in the field in coupes, the **managing authority** must notify the **Secretary**, providing details of the value location and proposed actions to be undertaken to manage the value during **timber harvesting operations**.
- 4.2.1.3 The **managing authority** must delineate the boundary of equivalent **exclusion area** or management areas in the Forest Coupe Plan and provide this information to the Secretary prior to commencement of **timber harvesting operations** or during **timber harvesting operations** if the values are identified post-commencement of **timber harvesting operations**.
- 4.2.1.4 Where management requirements within designated management areas or SMZ are not specified in these procedures, consult Department staff and ensure practical measures are undertaken to manage the persistence of a value across the management area during conduct of **timber harvesting operations**.

4.3 Vegetation communities

Box Ironbark

- 4.3.1.1 In the **Gippsland FMAs** exclude selective harvesting from **Box Ironbark forests** typically containing **Forest Red Gum** (*Eucalyptus tereticornis*), **Yellow Box** (*Eucalyptus melliodora*), **Coast Grey Box** (*Eucalyptus bosistoana*) and **Red Ironbark** (*Eucalyptus tricarpa*). Silvicultural practices that promote regeneration of these species is permitted.
- 4.3.1.2 In the East Gippsland FMA exclude selective harvesting from **Box Ironbark forests** typically containing **Red Ironbark** (*Eucalyptus tricarpa*), **Gippsland Grey Box** (*Eucalyptus bosistoana*), **Red Box** (*Eucalyptus polyanthemos*), **Blue Box** (*Eucalyptus baueriana*) and **Yellow Stringybark**

(*Eucalyptus muelleriana*). The use of seed-tree regeneration systems is permitted to restore the original species mix when combined with:

- a) cutting stumps of desired species to a maximum height of 30 cm, to encourage coppice growth;
- b) supplementary planting and sowing where necessary;
- c) removing unproductive trees of the less-preferred species to remove **overwood** competition; and
- d) thinning of advanced regrowth.

4.3.2 Heathland

- 4.3.2.1 Avoid **road construction** across areas of **heathland** or within 40 m of **heathlands** unless no reasonable **alternative** exists.
- 4.3.2.2 In the **Gippsland FMAs**, exclude Wet **Heathland**, Clay **Heathland** and Riparian Scrub Mosaic **EVCs** from harvesting. Protect these **heathland EVCs** with a 40 m **buffer**.
- 4.3.2.3 In the **East Gippsland FMA** and **Otway FMA** where evidence of **heathland** is found in the field and it isn't already classified as SPZ, apply an **exclusion area** prior to commencement of the **timber harvesting operation** consistent with management actions listed in **Table 15 Detection based rules for Heathland, Snow Gum, Swamp Gum and Heath vegetation communities**.
- 4.3.2.4 In the **Central Highlands** and **North East FMAs**, apply **exclusion areas** over heathlands, however there is no **buffer** required.

4.3.3 Montane Riparian Thicket (MRT)

- 4.3.3.1 In the Tambo FMA protect small **stands** of **MRT** between 0.01 ha and 0.5 ha and less than 10 m wide with a 10 m **filter strip** and stands of **MRT** wider than 10 m with a 20 m wide **filter strip**. For stands greater than 0.5 ha, a 20 m **buffer** must be applied from the edge of the Mountain Tea-tree **canopy**.
- 4.3.3.2 In all other FMAs apply the **heathland** prescriptions listed above in 4.3.2.
- 4.3.3.3 **MRT** stands must contain at least 40 % **canopy** cover of Mountain Tea-tree (*Leptospermum grandifolium*) and up to two key **understorey** species from the **MRT** definition in the **Glossary**. Gaps in the Mountain Tea-tree **canopy** may occur at intervals up to 10 m in length. Discrete areas of Mountain Tea-tree having **canopy** gaps greater than 10 m are to be treated as individual stands.

4.3.4 Old growth forest

- 4.3.4.1 Within the **Central Highland's FMAs**, apply a 100 m **buffer** around all stands of modelled **Ash old growth forest** that are depicted in the **Department's** corporate spatial dataset

representing **old growth**, MOG2009, and verified during field assessment by the **Managing Authority** or the Department to be **Ash type forest**.

4.3.5 White Cypress Pine, Buloke, Grey Box, Yellow Box and Grey Box vegetation communities

4.3.5.1 In the Mid Murray FMA, exclude **timber harvesting operations** within any White Cypress Pine (*Callitris glaucophylla*), Buloke, Grey Box (*Eucalyptus macrocarpa*), Yellow Box (*Eucalyptus melliodora*) and Grey Box vegetation communities.

4.3.6 Snow Gum and Swamp Gum

4.3.6.1 For vegetation communities dominated by Snow Gum (*Eucalyptus pauciflora*) on Mt Cole and Swamp Gum (*Eucalyptus ovata*) near Enfield in the Midlands FMA that aren't already classified as SPZ, apply an **exclusion area** prior to commencement of the **timber harvesting operation** consistent with management actions listed in **Table 15 Detection based rules for Heathland, Snow Gum, Swamp Gum and Heath vegetation communities**.

4.3.7 Rainforest canopy species

4.3.7.1 **Rainforest canopy** species are defined as shade tolerant tree and vine species which are able to regenerate below an undisturbed **canopy**, or in small **canopy** gaps resulting from locally recurring minor disturbances, such as isolated windthrow or lightning strike, which are part of the **rainforest** ecosystem. Such species are not dependent on fire for their **regeneration**.

4.3.7.2 In East Gippsland, Warm Temperate **Rainforest canopy** species are: Lilly Pilly (*Acmena smithii*), Kanuka (*Tristaniopsis laurina*), Sweet Pittosporum (*Pittosporum undulatum*), Blackwood (*Acacia melanoxylon*), Blue Olive-berry (*Elaeocarpus reticulatus*), Muttonwood (*Myrsine howittiana*), Jungle Grape (*Cissus hypoglauca*), Boobialla (*Myoporum insulare*) and Yellow-wood (*Acronychia Ablongifolia*).

4.3.7.3 In East Gippsland, Cool Temperate **Rainforest canopy** species are: Southern Sassafras (*Atherosperma moschatum*), Black Olive-berry (*Elaeocarpus holopetalus*), Blackwood (*Acacia melanoxylon*), Gippsland Waratah (*Telopea oreades*), Privet Mock-olive (*Notelaea ligustrina*), Banyalla (*Pittosporum bicolor*), Goonmirk Rocks Errinundra Plum Pine (*Podocarpus sp. aff. Lawrencei*) and Errinundra Pepper (*Tasmannia xerophila subsp. robusta*).

4.3.7.4 In the **Central Highlands FMAs** and Central Gippsland FMA, Cool Temperate **Rainforest canopy** species are: Myrtle Beech (*Nothofagus cunninghamii*), Southern Sassafras (*Atherosperma moschatum*), Blackwood (*Acacia melanoxylon*), Banyalla (*Pittosporum bicolor*), Mountain Pepper (*Tasmannia lanceolata*) and Mountain Tea-tree (*Leptospermum grandifolium*).

4.3.7.5 In the Central Gippsland FMA, Warm Temperate **Rainforest canopy** species are: Sweet Pittosporum (*Pittosporum undulatum*), Muttonwood (*Myrsine howittiana*) and Blackwood (*Acacia melanoxylon*).

4.3.7.6 In the Otway's, Cool Temperate **Rainforest canopy** species are: Myrtle Beech (*Nothofagus cunninghamii*) and Blackwood (*Acacia melanoxylon*).

4.3.7.7 In all areas, **forest stands** that are dominated by single (contain over 50%), non-diverse stands of the following species and which contain few other **rainforest** characteristics, are not considered **rainforest**: Blackwood (*Acacia melanoxylon*), Mountain Teatree (*Leptospermum grandifolium*), Sweet Pittosporum (*Pittosporum undulatum*), Errinundra Pepper (*Tasmannia xerophila subsp. robusta*) or Mountain Pepper (*Tasmannia lanceolata*).

4.3.7.8 Eucalypts are not classified as broad-leaved **rainforest** species and therefore Eucalypts do not contribute to the projected foliage cover when identifying stands of **rainforest**.

4.3.8 Rainforest field recognition and delineation

- 4.3.8.1 **Rainforest** stands are identified in the field as **forest** of at least 0.1 hectares where the projected foliage cover of the broadleaved tree **canopy** is greater than 70 % and is contributed by 1 or more of the **canopy** tree species listed above in sections 4.3.7.2 to 4.3.7.6 and where section 4.3.7.7 is not met.
- 4.3.8.2 Projected foliage cover is the proportion of ground covered by the vertical projection of foliage and branches from **rainforest canopy** trees. Any potential contribution of **understorey** species such as tree ferns is not counted toward assessment of projected foliage cover.
- 4.3.8.3 Linear **stands** are defined as stands of **rainforest** which are elongated and which are between 20 m and 40 m wide. Linear stands of **rainforest** usually occur along **drainage lines** or small streams. Linear stands may be “overshadowed” by eucalypts from the adjoining eucalypt **forest**.
- 4.3.8.4 The minimum area for recognition of a **rainforest** stand is 0.1 ha and the minimum narrowest width is 20 m. (i.e. 20 m by 50 m).
- 4.3.8.5 Special care is required when assessing the boundary between identified **rainforest** stands and adjacent wet sclerophyll **forest** stands where disturbance such as fire has temporarily removed the **rainforest canopy** or has created temporary **canopy** gaps within the stand of **rainforest**. In cases where the **canopy** disturbance is less than ten years old and further guidance as to the boundary between identified **rainforest** and adjacent wet sclerophyll **forest** stands, the ‘differential species approach’ is to be used (Differential species keys for the delineation of **rainforest** boundaries can provide reference photos)
- 4.3.8.6 Where the **rainforest canopy** is absent and there is little or no evidence of the **regeneration** of a **rainforest canopy** after 10 years following disturbance the ‘differential species approach’ should not be used to identify **rainforest** and the stand should no longer be considered to be **rainforest**.
- 4.3.8.7 Where the ‘differential species approach’ is utilised, the **rainforest** boundary is the point where the number of **rainforest** species equals the number of eucalypt **forest** species i.e. the line along which the **floristic** signals are of equal strength. This approach would be used where the **rainforest canopy** tree cover reduces gradually from 70% projected foliage cover. (gradual transition is a transition from 70% **rainforest** species projected foliage cover to 70% non-**rainforest** species projected foliage cover over a distance greater than approximately 10 meters).

4.3.9 Rainforest protection measures

- 4.3.9.1 Protect all **rainforest** stands from **timber harvesting operations** as follows:
- a) Exclude non linear **stands** that are 0.1 ha or more in size but less than 0.4 ha from **timber harvesting operations**. These stands do not require a **buffer**.
 - b) Exclude linear stands that are at least 0.1 ha but are less than 0.2 ha from **timber harvesting operations**. These stands do not require a **buffer**.
 - c) Exclude linear stands that are at least 0.2 ha but are less than 0.4 ha from **timber harvesting operations**. Protect these stands with a 20 m **buffer**.
 - d) Exclude all **rainforest** stands (including linear stands) equal to or exceeding 0.4 ha from **timber harvesting operations**. Protect these stands with a 40 m **buffer** except for **rainforest** stands in the **Central Highlands FMAs** and the **Gippsland FMAs** where 3.4.8.2 below must be complied with.
 - e) Distribute slash away from retained **rainforest** stands or **buffers**.

- 4.3.9.2 In areas categorised as being of National, State or Regional significance in the **Sites of Significance for Rainforest** spatial layer where evidence of **rainforest** greater in size than 0.4 ha is found in the field and it isn't already classified as SPZ, apply an **exclusion area** prior to commencement of the **timber harvesting operation** consistent with management actions listed in **Table 16 Buffer widths for Rainforest Sites of Significance by category and priority**.

4.4 Pests, weeds and diseases

4.4.1 Diseases

- 4.4.1.1 Minimise the risk of introduction or movement of Cinnamon Fungus (*Phytophthora cinnamomi*) and Root Rot (*Armillaria*) from known infected areas, into uninfected areas by:

- a) washing machinery before moving into uninfected areas;
- b) restricting activities where the movement of soil or gravel is likely to cross from infected sites into healthy vegetation;
- c) minimising the relocation or movement of infected gravel or soil during road and track construction or maintenance works, or logging operations;
- d) restricting or controlling drainage water run-off from roads and tracks away from healthy vegetation;
- e) testing gravel from infected areas and using only uncontaminated gravel in uninfected areas; and
- f) leaning and disinfecting vehicles, machinery, tools and equipment used in infected areas.

- 4.4.1.2 Minimise the spread of Myrtle Wilt (*Chalara australis*) when operating in areas where it is known to exist by:

- a) protecting individual Myrtle Beech (*Nothofagus cunninghamii*) trees;
- b) sterilising equipment with anti-fungal agent or warm water and soap prior to moving into a new area;
- c) pruning Myrtle Beech (*Nothofagus cunninghamii*) that are subject to ongoing damage by vehicles; and
- d) immediately treating wounds on Myrtle Beech (*Nothofagus cunninghamii*) (including those left by pruning) with a commercial, waterproof wound sealant.

4.4.2 Weeds

- 4.4.2.1 Conduct a pre-harvest assessment to determine the type and extent of weeds on the **coupe** and on associated **coupe access roads**.

- 4.4.2.2 Conduct a post-harvest assessment to determine the type and extent of weeds on the **coupe** and associated **coupe access roads** in the first spring after completion of site preparation and establishment and during the **stocking** survey.

- 4.4.2.3 Where the assessments identify the **timber harvesting operation** has introduced or exacerbated weeds, prepare a weed management plan and implement a weed control program.

- 4.4.2.4 Record any areas to be treated on a map in the **Forest Coupe Plan** and mark in the field as necessary prior to treatment.

5. Other values

5.1 Historic and Cultural Places

- 5.1.1.1 During planning for **timber harvesting operations**, ensure that the relevant Heritage legislation (including *Aboriginal Heritage Act 2006*, *Aboriginal Heritage Regulations 2018* and *Heritage Act 2017*) is consulted, in addition to databases such as the Victorian Heritage Register, Victorian Heritage Inventory and the Aboriginal Cultural Heritage Register and Information System (ACHRIS) public map.
- a) Where historic or Aboriginal cultural heritage places or values are present and represented within components of the **Forest Management Zoning Scheme**, comply with zoning and management actions and applicable heritage acts.
 - b) Where historic or cultural values are present and not represented on the **Forest Management Zoning scheme**, seek appropriate historic or cultural advice from Aboriginal Victoria and / or Heritage Victoria before works that may adversely affect a **historic place** or heritage value.
- 5.1.1.2 Protect the historic fabric and report unrecorded **historic places** or cultural heritage values discovered post-planning or during **timber harvesting operations** to Heritage Victoria and the relevant Department district office. Ensure that relevant permits and consents are obtained where required.

5.2 Landscape

5.2.1 Central Highlands FMAs

- 5.2.1.1 Retain all **mature** trees within 20 m of the Monda Track.
- 5.2.1.2 Apply a 50 m **buffer** either side of La La Falls walking track.
- 5.2.1.3 Apply a 50 m **buffer** either side of Island Creek walking track and a 100 m **buffer** around the Ada Tree.
- 5.2.1.4 Apply an 80 m **buffer** upslope and 20 m **buffer** downslope of aqueducts in the Historic and Cultural Features Reserves in Rubicon State Forest.

Foreground Seen Area Management (0 – 500 m)

- 5.2.1.5 Within 500 m of the 'Places' listed as 'Scenic Drives' and 'Designated Lookouts' in **Table 17 Landscape management prescriptions**, manage **timber harvesting operations** to ensure landscape alterations are temporary, subtle and not evident to the casual observer.
- 5.2.1.6 Within 500 m of the 'Places' listed as 'Landscape Features' in **Table 17 Landscape management prescriptions**, use a minimum 20 m vegetation buffer to screen **timber**

harvesting operations (except **selective harvesting** operations) and new road alignments from view.

Middleground seen area management (500 m – 6.5 km)

- 5.2.1.7 In the middleground, between 500 m and 6.5 km, seen from the 'Places' listed as 'Landscape Features' in **Table 17 Landscape management prescriptions**:
- (a) manage timber harvesting operations to ensure landscape alterations are only subtly apparent within 5 years of the operation; and
 - (b) shape, position and time timber harvesting operations and new roads to minimise their visual impact.

5.2.2 East Gippsland FMA

- 5.2.2.1 Within the 'Places' listed as 'Landscape Features' described in **Table 17 Landscape management prescriptions**, limit the area of **coupes** which are highly visible from Gelantipy Road to 20 ha and leave at least 3 years between harvesting of adjacent **coupes**.

Foreground seen area management (0 – 500 m)

- 5.2.2.2 Within 500 m of 'Places' listed as 'Scenic Drives' and 'Designated Lookouts' listed in **Table 17 Landscape management prescriptions**, manage **timber harvesting operations** to ensure landscape alterations are temporary, subtle and not evident to the casual observer.
- 5.2.2.3 Within 500 m of the 'Places' listed as 'Landscape Features' in **Table 17 Landscape management prescriptions**, use a minimum 20 m vegetation **buffer** to screen **timber harvesting operations** (except **selective harvesting** operations) and new road alignments from view. Use a minimum 20 m vegetation **buffer** with particular emphasis on the sensitive 'Landscape Features' listed in **Table 17 Landscape management prescriptions**.

Middleground seen area management (500 m – 6.5 km)

- 5.2.2.4 In the middle ground, between 500 m and 6.5 km, seen from the 'Places' listed as 'Landscape Features' in **Table 17 Landscape management prescriptions**:
- a) manage **timber harvesting operations** to ensure landscape alterations are only subtly apparent within 2 years of the operation; and
 - b) shape, position and time **timber harvesting operations** and new roads to minimise their visual impact.

Background ridgeline management

- 5.2.2.5 Design **timber harvesting operations** so that **clearfall** and skyline 'notches' are not apparent from the 'Places' listed as 'Scenic Drives' and 'Designated Lookouts' listed in **Table 17 Landscape management prescriptions**.

5.2.3 Gippsland FMAs

- 5.2.3.1 Plan and implement **timber harvesting operations** in areas zoned as SMZ for landscape values in a manner that ensures scenic value is maintained.
- 5.2.3.2 In the middle ground from the 'Places' listed as 'Landscape Features' listed in **Table 17 Landscape management prescriptions**, design **timber harvesting operations** and new roads to minimise their visual impact.

5.2.4 Midlands FMA

Foreground seen area management (0 – 500 m)

- 5.2.4.1 Within 500 m of the 'Places' listed as 'Scenic Drives' and 'Designated Lookouts' listed in **Table 17 Landscape management prescriptions** manage **timber harvesting operations** to ensure landscape alterations are temporary, subtle and not evident to the casual observer.
- 5.2.4.2 Within 500 m of the 'Places' listed as 'Landscape Features' in **Table 17 Landscape management prescriptions**, use a minimum 20 m vegetation **buffer** to screen **timber harvesting operations** (except selective harvesting operations) and new road alignments from view.

Middleground seen area management (500 m – 6.5 km)

- 5.2.4.3 In the middle ground, between 500 m and 6.5 km, seen from the 'Places' listed as Landscape Features in **Table 17 Landscape management prescriptions**:
 - a) manage **timber harvesting operations** to ensure landscape alterations are only subtly apparent within 2 years of the operation; and
 - b) shape, position and time timber harvesting operations and new roads to minimise their visual impact.

5.2.5 Mid Murray FMA

- 5.2.5.1 Within the existing landscape management SMZs, manage **timber harvesting operations** as follows:
 - a) retain large old trees close to the roads (subject to public safety);
 - b) during peak periods of visitor use, conduct only those timber harvesting operations and silvicultural works (like thinning) which maintain visual amenity; and
 - c) ensure harvesting debris is removed from the corridor.
- 5.2.5.2 Site log landings and sleeper cutting ducks at least 60m from roads subject to landscape management SPZs.

5.2.6 North East FMAs

- 5.2.6.1 For Indicative National Estate natural landscapes, the following management directions apply:
 - a) At Mt. Cudgeway/Rogers Creek, design coupes to minimise impact on view from Henlow (Tallangatta Valley);
 - b) At Lower Howqua North/Red Hill, design coupes to minimise impact on view from Mt. Buller;
 - c) At Mt. View (Snake-Edwards Divide), design coupes to minimise impact on view from Mt. Skene Road.
- 5.2.6.2 For the Indicative National Estate values at Eskdale Spur & Mt Emu, design coupe to minimise impact on view from Kiewa Valley Highway.
- 5.2.6.3 For the Indicative National Estate value (natural, aesthetic) along Omeo Highway and at Mt. Wills Historic Area:
 - a) Plan **timber harvesting operations** between Bogong Saddle and Glen Wills on the Omeo Highway to ensure no more than 10% of the length of roadside should be less than 3 years old; and
 - b) Harvesting adjacent to or immediately opposite a recently harvested coupe may only proceed when the regeneration of the initial harvested area is at least 3 years old.

5.2.6.4 Plan and implement **timber harvesting operations** and new road construction in existing landscape SMZ in a manner that ensures the scenic value is maintained.

5.2.6.5 In the middle ground from the 'Places' listed as 'Landscape Features' in **Table 17 Landscape management prescriptions**, design timber harvesting operations and new roads to minimise their visual impact.

5.3 Apiary

5.3.1 Bendigo FMA

5.3.1.1 When planning harvesting in patches of summer-flowering Red Ironbark **stands**, ensure that potential short-term flowering reductions resulting from harvesting are not concentrated in time or location.

5.3.2 Gippsland Forest Apiary Plan Area

5.3.2.1 Within a 1km radius of Apiary Zone 1 sites (sites of high importance to the apiary industry), manage timber harvesting operations to:

- a) maximise the proportion of older age stands;
- b) retain at least 66% of **State forest** at more than 40 years of age;
- c) retain at least 66% of Yellow Stringybark (*Eucalyptus muelleriana*) and Red Box (*Eucalyptus polyanthemus*) **stands** in **State forest** in the **mature** and/or **over-mature** age class; and
- d) retain all individual Blue Box (*Eucalyptus baueriana*) trees.

5.4 Recreation

5.4.1.1 For developed recreation facilities not included in the existing SMZ or SPZ components of the **FMZ scheme**, exclude **timber harvesting operations** within 40 m.

5.4.1.2 For the recreation sites listed in **Table 18 Recreation sites**, document and **manage timber harvesting operations** to maintain the value of the place.

5.4.1.3 Within the Australian Alps Walking Track (AAWT) SPZ:

- (a) construct and maintain roads that cross the AAWT in a manner that considers the needs of walkers using the track; and
- (b) consider the use of alternative extraction routes during harvesting operations to protect the AAWT.

5.5 Research

5.5.1.1 In the **Gippsland FMAs**, Midlands FMA and **North East FMAs** refer to **Table 19 Research sites** for prescriptions applicable to research localities and projects.

5.5.1.2 In Mid Murray FMA, exclude **timber harvesting operations** that are incompatible with the objectives for **approved** research projects, until such time as the areas are no longer required.

- 5.5.1.3 In the **Central Highlands FMA**, apply **exclusion areas** for **timber harvesting operations** within 50 m of registered ANU Monitoring sites at which long term ecological monitoring is being conducted by Professor David Lindenmayer.

5.6 Fuel Hazard ratings in Fire Management Zones

- 5.6.1.1 The scheduling of **timber harvesting operations** and **planned burning** should occur to ensure that areas are **clearfall** or seed tree harvested less than 12 months prior to planned burning.
- 5.6.1.2 Failure to comply with clauses **Error! Reference source not found.** through to **Error! Reference source not found.** may result in the Department undertaking planned burning in the **coupe**. Where this occurs, the **managing authority** or **harvesting entity** is responsible for ensuring **regeneration** standards are met post planned burning.
- 5.6.1.3 The time frame for ensuring that the overall **fuel hazard ratings** are met commences from **coupe** completion (i.e. not temporary closure). A maximum of 2 years from **coupe** commencement is allowed if temporary clearances are applied to a **coupe**.
- 5.6.1.4 In Asset Protection Zones defined in the *Code of Practice for Bushfire Management on Public Land 2012*:
- a) The overall fuel hazard rating for a harvested **coupe** must be less than or equal to moderate:
 - I. during harvesting if harvesting is conducted during the fire season; and
 - II. within 12 months of harvesting.
 - b) **Clearfall** and seed tree harvesting is not permitted in more than 1 ha of the **gross coupe area**.
 - c) In any five year period the area harvested using **thinning** or **selective harvesting** must not exceed 5 % of the GMZ or SMZ in that Asset Protection Zone measured as a rolling average from 1 July 2012.
- 5.6.1.5 In Bushfire Moderation Management Zones defined in the *Code of Practice for Bushfire Management on Public Land 2012*:
- a) In any five year period the area harvested using **clearfall** or **seed tree** harvesting must not exceed 1 % of the GMZ or SMZ in that Bushfire Moderation Zone measured as a rolling average from 1 July 2012.
 - b) The overall **fuel hazard rating** for a **clearfall** or seed tree harvested **coupe** must be less than or equal to high within 12 months of harvesting.
 - c) In any five year period the area harvested using thinning or selective harvesting must not exceed 4 % of the GMZ or SMZ in that Bushfire Moderation Zone measured as a rolling average from 1 July 2012.
 - d) Thinned or selectively harvested coupes may be burnt by the Department as part of future planned burns. These burns will be conducted at least 18 months post harvest.
- 5.6.1.6 In areas within 1.5km of private property in a Landscape Management Zone defined in the *Code of Practice for Bushfire Management on Public Land 2012* the overall fuel hazard rating for a harvested **coupe** must be less than or equal to high within 12 months of harvesting.

6. Roothing

6.1 Road planning

- 6.1.1.1 Plan new roads and **significant road improvement operations** to minimise construction through SMZ **exclusion areas**, SPZ, wet, unstable areas, and slopes greater than 30 degrees.
- 6.1.1.2 Application may be made to the **Minister** or **delegate** to obtain approvals for road construction (including **coupe access** and **in-coupe** roads) or **significant road improvement operations** proposed to be roading activities conducted in SPZ in accordance with Section 1.4.
- 6.1.1.3 Seek engineering advice for road alignments traversing cross slopes of 30 degrees or greater or 25 degrees and greater in areas of high soil erodability.
- 6.1.1.4 Identify the intended class of a new road or road upgrade in accordance with the appropriate service function description in **Table 20 Road classification system**
- 6.1.1.5 Design new roads and road upgrades to conform to the geometric design standards in **Table 21 Guidelines to the main geometric design standards – unsealed roads** for the intended road class.

6.1.2 Clearing Widths

- 6.1.2.1 Minimum clearing widths for roads are specified in **Table 22 Minimum clearing widths (m) required for typical road construction**
- 6.1.2.2 When planning clearing widths for road intersections on **permanent roads** include the minimum formation width plus any additional width required for the construction of batters.
- 6.1.2.3 Where a slashed verge is necessary, plan clearing widths for **permanent roads** sufficiently wide to enable efficient control of unwanted **regrowth**.
- 6.1.2.4 Limit clearing widths to those specified in **Table 22 Minimum clearing widths (m) required for typical road construction** plus any additional width required to construct batters.

6.2 Road construction

- 6.2.1.1 Undertake road construction when rainfall and soil conditions minimise the risk of erosion and impact on water quality, and when soil moisture is adequate to achieve compaction and stabilisation of the sub-grade.
- 6.2.1.2 Clear road alignments prior to road formation.
- 6.2.1.3 For construction of **permanent roads**, remove all stumps, logs and other debris from within the formed width of the road site.
- 6.2.1.4 Where **road construction** requires the removal of topsoil in large quantities maintain the topsoil in a stockpile where practicable, clear of logging debris for use in batter stabilisation, **snig track rehabilitation** or other **coupe infrastructure** rehabilitation.
- 6.2.1.5 Create table drains by extending the road when it is formed, and not by subsequent excavation.
- 6.2.1.6 Limit earthworks to the least possible to achieve the road design specification.
- 6.2.1.7 At the completion of **permanent road** construction operations, notify the Department of the location of the road (so that the road may be included on the Department Road Register).

6.2.2 Fill Batter Construction

- 6.2.2.1 Minimise fill batters from covering the base of retained live trees.
- 6.2.2.2 Only use clean and weed free mulch in batter rehabilitation works.
- 6.2.2.3 Stabilise fill batters using mechanical consolidation where practical, to manage any soil movement away from the fill area.

6.2.3 Surfacing

- 6.2.3.1 Consolidate sub-grades before placing pavement material.
- 6.2.3.2 Consolidate and level the base course material prior to placing the wearing course material.
- 6.2.3.3 On **permanent roads** use surfacing materials appropriate to passenger vehicles and **timber harvesting operations**.

6.2.4 Road Drainage

- 6.2.4.1 The maximum distance between drainage structures for road grade and soil erosion hazard is specified in **Table 23 Maximum distance between drainage structures**.
- 6.2.4.2 Construct cross-drains at an angle sufficient to discharge any water from the surface of the road.
- 6.2.4.3 On soils of high erosion hazard, use temporary sediment traps to prevent erosion during road construction.
- 6.2.4.4 Appropriate discharge areas for drainage include:
 - a) a strip of undisturbed vegetation at least 20 m wide;
 - b) a rock spill; or
 - c) some other structure that dissipates the velocity of drainage flows.
- 6.2.4.5 Place drainage structures approximately 20 m from permanent or **temporary streams**, to allow discharge onto undisturbed vegetation and to maximise the flow distance between the drainage outlet and the **waterway**.
- 6.2.4.6 Within 20 m of a permanent or temporary stream:
 - a) use **crowns** or cross fall techniques to drain roads into undisturbed vegetation; or
 - b) pass drainage through an appropriate sediment control structure such as a sediment pond or silt trap before entering a permanent or temporary stream.
- 6.2.4.7 Construct table drains to:
 - a) allow water to flow, without ponding;
 - b) include **run-offs** of sufficient length to allow the table drain and run-offs to be cleaned;
 - c) be supported by rock or otherwise stabilised in soils of a high erosion hazard; and
 - d) have silt traps constructed at the end if discharging directly into a stream or **wetland buffer**.

6.2.5 Culverts

- 6.2.5.1 Culverts used in **permanent roads** are a minimum of 375 mm in **diameter**.
- 6.2.5.2 Culverts used in **temporary roads** are a minimum of 300 mm in **diameter**.
- 6.2.5.3 All culverts are designed to withstand a 1 in 10 year rainfall event.
- 6.2.5.4 Construct culverts in catchment areas exceeding 100 ha in accordance with engineering advice.
- 6.2.5.5 On **drainage lines**, stream and river crossings or soils of High Erosion Hazard place sandbags, **timber**, concrete or rock at the head of the culvert and at the point of discharge to hold the culvert in place and protect it from erosion.
- 6.2.5.6 Include a road sump for all culverts on Class 5C and higher roads.
- 6.2.5.7 If constructed of concrete, have a minimum cover of 600 mm as measured from the road surface to the top of the pipe and a maximum cover as specified in the Installation of Steel-Reinforced Concrete Drainage Pipelines, Concrete Pipe Association of Australasia.
- 6.2.5.8 If constructed of a material other than concrete, have a minimum cover over the pipe as recommended in the manufacturer's specifications.
- 6.2.5.9 On **permanent streams**, include a fish ladder if the **diameter** of the culvert is greater than 750 mm.
- 6.2.5.10 Protect any fill face upstream or downstream of a culvert in a way that prevents erosion.
- 6.2.5.11 Ensure culverts do not project above the bed of a **waterway** in a way which may prevent the passage of aquatic **fauna**.
- 6.2.5.12 Where culvert construction diverts water from its natural course, return water to its natural course over a flume, rock spill, or other hard surface.

6.2.6 Bridges

- 6.2.6.1 Design bridges in accordance with the Department's *Bridge and Major Culvert Policy*.
- 6.2.6.2 Design bridges to prevent constriction of any clearly defined channel.
- 6.2.6.3 Source earth borrow from outside waterway **buffers**.
- 6.2.6.4 Ensure that excavations, sills, abutments, stringers and girders are made or placed above the high watermark of the stream, **wetland** or **drainage line**.
- 6.2.6.5 Protect bridges from erosion by use of natural groundcover, a retaining wall, a bulkhead or a rock surface.
- 6.2.6.6 Only construct temporary crossings to carry machinery during bridge construction if the bed of the stream, wetland or drainage line is capable of bearing the weight of that machinery without being damaged.
- 6.2.6.7 Temporary crossings to carry machinery during bridge construction:
 - a) include a corduroy crossing of logs;
 - b) are adequately drained, along with any access tracks, when construction is complete; and
 - c) are removed and rehabilitated on completion of works.

6.2.7 Fords

- 6.2.7.1 The base and entry points of fords are constructed of rock, concrete, heavy **timber** or other erosion-resistant material.
- 6.2.7.2 Fords are only as wide as the crossing place will allow.
- 6.2.7.3 Ensure fords do not project above the bed of a **waterway** in a way which may prevent the passage of aquatic **fauna**.

6.3 Road Maintenance

- 6.3.1.1 Breach at regular intervals any soil windrow erected on the outside of a road.
- 6.3.1.2 Maintain drainage structures free of debris.

6.4 Road Rehabilitation

- 6.4.1.1 Close **temporary roads** (including removal of all bridges, crossings and culverts on streams or **drainage lines**) as soon as possible after harvesting and/or **regeneration** is complete in all **coupes** that use the road.
- 6.4.1.2 Drain the approach to any bridge, culvert or log fill crossing that has been removed to restrict soil movement into a stream or waterway.
- 6.4.1.3 Use an effective barrier to close to all vehicles temporary roads that will not be used to access a **coupe** for a period of 12 months or more.

7. Timber Harvesting

7.1 Coupe Management

7.1.1 Coupe Boundary

- 7.1.1.1 The **coupe** boundary must be able to be identified in the field and must reflect the mapped **coupe** boundary on the **sanctioned Forest Coupe Plan**.
- 7.1.1.2 Where a **coupe** boundary shown in a **Forest Coupe Plan** is mapped to a geographic feature and the actual location of that geographic feature does not match the mapped location, the **coupe** boundary may be moved a maximum of 50 m from the mapped boundary to align with the actual location of the intended boundary feature. If the distance exceeds 50 m then the **Forest Coupe Plan Map** must be amended to reflect the actual **coupe** boundary.
Note: Boundary movements may result in proposed timber harvesting operation being unauthorised.
- 7.1.1.3 Where the **coupe** boundary abuts non-**State forest** land tenures, the **managing authority** must consult with the adjoining **land managers / land owners** and agree on the location of the mapped **coupe** boundary in the field.

7.1.2 Areas where timber harvesting operations are to be excluded

- 7.1.2.1 Unless an exemption or temporary variation application is sought and **approved** in accordance with Section 1.4, **timber harvesting operations** must be excluded from:
- a) SPZ;
 - b) Designated **exclusion areas** within SMZ;
 - c) **buffers** and other **exclusion areas** to be applied in accordance with these **Management Standards and Procedures**; and
 - d) within 10 m of vertical or near vertical sided gullies with a depth of half a metre or more that are actively eroding (or within 20 m where slope exceeds 20 degrees) in the Bendigo FMA.
- 7.1.2.2 Where an **exclusion area** is based on an incorrectly mapped geographic feature or value, the **exclusion area** should be centred on the actual location of the feature or value in the field not the previously mapped location.
- 7.1.2.3 **Exclusion areas** must be protected from damage during rough heaping or windrowing operations.

7.1.3 Operations in buffers

- 7.1.3.1 Trees can only be harvested within **buffer** areas if sanctioned for safety purposes.
- 7.1.3.2 Machinery is to be excluded from **buffers** except where involved in the **sanctioned** construction of a **coupe access road, in-coupe road**, or stream crossing; or when using an

established stream crossing or **existing road** for the purpose of **road maintenance** works, snigging or **haulage**.

- 7.1.3.3 Except where constructing a **sanctioned** stream crossing, minimise circumstances where fill and harvesting debris may enter **buffers**.

7.1.4 Operations in filters

- 7.1.4.1 Machinery is to be excluded from **filter strips** except where involved in the **sanctioned** construction of a **coupe access road, in-coupe road**, stream crossing or when using an established stream crossing or **existing road** for the purpose of **road maintenance** works, snigging or **haulage**.

- 7.1.4.2 Except where constructing a **sanctioned** stream crossing, minimise circumstances where fill and harvesting debris may enter filter strips.

- 7.1.4.3 Filter strips must be protected from damage during rough heaping or windrowing operations.

7.2 Coupe Infrastructure

7.2.1 Snig Track and Landing Construction

- 7.2.1.1 Crossing standards and procedures for roads also apply to **snig track** crossings.
- 7.2.1.2 Avoid placing bark on uncorded snig tracks (this does not apply to thinning **outrows**).
- 7.2.1.3 Where **cording** is to be used, it should not be placed on snig tracks if machinery caused soil damage already exists.
- 7.2.1.4 Stockpile any existing topsoil during **landing** construction for later use in **rehabilitation**, this is not required if the operation uses suitable soil protection techniques (such as **cording** and **matting**).

7.2.2 Snig Track and Landing Rehabilitation

- 7.2.2.1 Following completion of the **timber harvesting operation** rehabilitate all snig tracks to prevent:
 - a) unacceptable movement of soil down or from the track surface; and
 - b) soil movement into streams.
- 7.2.2.2 Rehabilitate landings following completion of **timber harvesting operations**, and before the **coupe** is vacated, unless they are required for:
 - a) future **Shelterwood 2** operations;
 - b) harvesting of adjacent coupes within 3 years; or
 - c) any other Department approved purpose for which **native vegetation** is not compatible.
- 7.2.2.3 Identify any **landings** that do not require **rehabilitation** in the **Forest Coupe Plan**.
- 7.2.2.4 Lift and aerate corded and matted **snig tracks** to facilitate regeneration burning.
- 7.2.2.5 Remove **cording** and as much **matting**, bark and slash as possible from **landings** before rehabilitation works occur.
- 7.2.2.6 Rip / cultivate any snig track, **landing** or other area where machinery has compacted the soil. Ripping of snig tracks should be extended for at least 30 m from the **landing**.
- 7.2.2.7 Where removed and stockpiled, replace topsoil to a consistent depth across the **landing**.

7.2.3 Boundary Trails

- 7.2.3.1 Locate boundary trails within the gross **coupe** boundary and outside **buffers**, filters and **exclusion areas** except for **sanctioned** crossings identified in the **Forest Coupe Plan**.
- 7.2.3.2 Minimise debris deposited outside the **coupe** boundary when constructing boundary trails.
- 7.2.3.3 Maintain adequate drainage of boundary trails at all times until rehabilitation is complete.
- 7.2.3.4 Rehabilitate boundary trails as soon as practical after any **regeneration burns** and before commencement of any relevant closure periods.

7.2.4 Slash and bark management

7.2.4.1 Where **regeneration** burning is planned:

- a) place bark piles at least 10 m inside the **coupe** boundary;
- b) place windrows at least 3 m from excluded areas; and
- c) ensure slash is not permitted to accumulate within 3 m of the base of any retained **habitat tree**, Large Tree or **Shelterwood 1** tree.

7.2.4.2 Limit slash and bark piles to a maximum of 4 m² (ground area) and 10 m³ (total volume).

7.2.5 Campsites and facilities

7.2.5.1 Obtain approval from the **Minister** or **delegate** in accordance with Section 1.4 section 1.4 for any camp site or shower units associated with **timber harvesting operations** that are not located on a sanctioned **coupe**.

7.2.5.2 Situate camp sites and shower units in a location which requires no additional tree clearance.

7.2.5.3 In the Thomson, Tarago and Yarra Tributaries **special water supply catchments** serviced sanitary facilities must accompany any operation that is conducted on the land for any extended period.

7.3 Operational restrictions

7.3.1 Suspension of timber harvesting operations

7.3.1.1 Unless **cording** and **matting** has been established at a **coupe**, suspend **snigging**, **forwarding** and log loading when:

- a) soil within the **coupe** is saturated;
- b) water is flowing on or over any **snig track**; or
- c) there is a reasonable risk that effective track drainage cannot be maintained.

7.3.2 Suspension of Haulage

7.3.2.1 Haulage must be suspended when:

- a) snow is lying on any road used to access or exit the **coupe**;
- b) water is flowing down any unsealed road or track; or
- c) truck movement will deposit mud on a gravelled or sealed road.

7.3.3 Seasonal Closures

7.3.3.1 No harvesting or stand tending operations which involve the use of heavy machinery or which otherwise cause significant soil disturbance may take place in designated catchments in the Midlands FMA from 31 July to 31 October.

7.3.3.2 No timber harvesting operations may take place in the Woohlpooer and Cherrypool **State Forests** during the months of June, July, August and September.

7.3.3.3 Refer to Section 3.5 for season closures that apply to catchment areas within SMZ.

8. Fire Salvage Harvesting

8.1.1 Salvage General

- 8.1.1.1 Fire salvage prescriptions are in addition to all other prescriptions outlined in these **Management Standards and Procedures** and apply to all salvage operations within fire-affected **forest** until the beginning of the third winter following the wildfire, except where otherwise indicated.
- 8.1.1.2 **Timber harvesting operations** conducted within fire-affected **forest** after the third winter following the wildfire revert back to the non fire salvage prescriptions within these **Management Standards and Procedures**.

8.1.2 Salvage schedule priority

- 8.1.2.1 Undertake fire **salvage harvesting operations** in **State forest** areas designated as fire severity classes 1, 2 or 3 before salvage harvesting in fire severity classes 4 or 5. **Table 24 Fire severity classification** describes the Fire Severity Classification system.

8.1.3 Coupe size and aggregation

- 8.1.3.1 120 ha is the maximum **coupe** size for fire salvage operations in Alpine or Mountain **Ash** dominated **forest**. No size restrictions apply to aggregates of Alpine or Mountain **Ash** fire salvage coupes.

8.1.4 Habitat retention

- 8.1.4.1 Plan the **coupe** so there is no more than 200 m between areas of retained habitat. Retained habitat includes **habitat tree exclusion areas**, filters and **buffers**, green patch **exclusion areas** and any **forest** adjacent to the **coupe**.
- 8.1.4.2 Exclude machinery from a minimum of 15 % of the **gross coupe area** to facilitate the recovery of **understorey** species. All **exclusion areas** and stream filters that are additional to standard stream protection prescriptions within the **coupe** may count towards the 15 % of gross **coupe** area from which machinery is excluded. 20 m is the minimum width for machinery **exclusion areas** set aside exclusively for understorey recovery. Where present, locate in areas with

evidence of tree ferns. Tree felling is permitted in these areas. **Cording** and **matting** may remain on **landings** after **salvage harvesting operations** (replaces Clause 7.2.2.5).

8.1.5 Water quality

- 8.1.5.1 Except in **restricted access** and **special water supply catchments** locate **landings**, where possible:
- a) at least 40 m for slopes of 15° or less, or 60 m for slopes of greater than 15°, from any **permanent stream**, or wetland; and
 - b) at least 20 m for slopes of 15° or less, or 30 m for slopes of greater than 15°, from any temporary stream and any drainage line.
- 8.1.5.2 In restricted access and special water supply catchments locate **landings**, where possible:
- a) at least 60 m for slopes of 15° or less, or 80 m for slopes of greater than 15°, from any **permanent stream**, or wetland; or
 - b) at least 40 m from any temporary stream drainage line.
- 8.1.5.3 Locate boundary tracks at least 40 m from any **permanent stream** or wetland.
- 8.1.5.4 Apply the **buffer** and filter prescriptions for sites with high or very high water quality risk as specified in **Table 9 Minimum widths in metres for buffers (B) and filter (F) strips applicable to various waterway categories, in relation to water quality risk and slope**.
- 8.1.5.5 Install drainage structures for all **coupe** and haulage infrastructure at an appropriate frequency to mitigate increased risks to water quality due to potential sediment loads associated with water flow in the fire affected terrain.
- 8.1.5.6 In **restricted access** and **special water supply catchments** establish a drainage structure between 20 m to 40 m upslope of where a road or vehicle route crosses any **waterway**.

8.1.6 Weeds and disease

- 8.1.6.1 Clean soil from all harvesting machinery (excluding trucks and passenger vehicles) before floating to or from a salvage **coupe**. Replaces Clause 4.4.1.1 where pre-harvest disease and weed infestations cannot be assessed due to fire effects.

8.1.7 Field determined values

- 8.1.7.1 Locate the boundaries of existing SPZ or SMZ based on modelled or mapped values according to the process outlined in **Figure 2 Field process for determining FMZ based on modelled or mapped values**.
- 8.1.7.2 To determine the boundaries of a Leadbeater's Possum habitat Zone 1A assume all **hollow** bearing trees, even if **dead**, to be 'alive'.

8.1.8 Ash Forest Green Patch Exclusion Areas

- 8.1.8.1 Green patches are areas of **forest** within a fire affected area that are assessed through field checking to have fire severity class of 4 or 5 (See Section 8.1.2 and **Table 24 Fire severity**

classification). Areas of fire severity class 4 or 5 must be at least 40 m wide to be a green patch.

- 8.1.8.2 Where less than 15 % of **Ash** dominated **forest** within a **compartment** is classified as fire severity class 4 or 5 all green patches greater than 0.5 ha are to be permanently protected during salvage operations to facilitate recruitment of future **hollow**-bearing trees.
- 8.1.8.3 Where more than 15 % and less than 40 % of **Ash** dominated **forest** within a **compartment** is classified as fire severity class 4 or 5 protect all green patches greater than 5ha during salvage operations. Following salvage harvesting, further **timber harvesting operations** within these **compartments** are to be excluded until the **forest** regenerating from the fire reaches **reproductive maturity** typically by 15 years of age.
- 8.1.8.4 Green patches may be harvested where, within a **compartment**, more than 40 % **Ash** dominated **forest** is classified as fire severity class 4 or 5. Limit the total area of fire severity class 4 or 5 **Ash** harvested within a salvage **coupe** to 40 ha.

8.1.9 Ash habitat tree exclusion areas

- 8.1.9.1 Retain an average of at least 5 **habitat trees** per hectare of **net coupe area** in **exclusion areas** of greater than 0.1 ha. Replaces **Table 12 Habitat tree prescriptions**. Prescriptions protecting trees of pre-1900 origin continue to apply for **Central Highlands FMAs**.
- 8.1.9.2 Situate **habitat tree exclusion areas** to maximise retention of high priority **habitat trees**. **Habitat trees** have the following order of priority:
 - a) large live **hollow**-bearing trees;
 - b) large live trees without **hollows**;
 - c) large **dead** trees;
 - d) small live trees; then
 - e) small **dead** trees.

Note: Trees greater than 50 cm DBHOB are considered to be large. Replaces **habitat tree** selection criteria in Section 4.1, except where the Bendigo FMA standard applies or where all trees of a particular type (e.g. **hollow** bearing / **dead**) are protected.
- 8.1.9.3 Situate **habitat tree exclusion areas** to maximise retained **forest** connectivity within the **coupe**.
- 8.1.9.4 Arrange the shape and location of **habitat tree exclusion areas** to reduce ongoing operational and weather related damage to **habitat trees**.

8.1.10 Barred Galaxias buffers and filters

- 8.1.10.1 Apply the minimum stream **buffer** and **filter strip** widths in **Table 25 Salvage harvesting Barred Galaxia minimum buffer and filter strip widths** upstream of Barred Galaxias populations (all soils), replacing **Table 10 Minimum widths for buffer (B) and filter strips (F) applicable to waterway classes for specified aquatic and riparian habitat-dependant species**.
- 8.1.10.2 Retain harvesting slash in **filter strips**, and aligned parallel to the stream, to slow the flow of water and reduce the potential for sediment to enter the stream or **wetland**.

9. Forest Regeneration and Management

9.1 Regeneration

9.1.1 Stocking surveys

- 9.1.1.1 For even-aged **stands**, conduct **stocking** surveys 15-30 months after sowing/seed fall or planting.
- 9.1.1.2 Successfully stocked **even-aged** regenerating **forests** must have:
- at least 1 acceptable seedling in 65 % of 2.27 m radius (16 m²) plots placed on a 20 m by 80 m systematic grid or at least 1 acceptable seedling in at least 55 % of 2.27 m radius (16 m²) plots placed on a 20 m by 40 m systematic grid; and
 - no discrete area greater than 1 ha with less than 400 stems per hectare.
- 9.1.1.3 For **uneven-aged** stands conduct stocking surveys 15-36 months after completion of harvesting.
- 9.1.1.4 Successfully stocked uneven-aged regenerating **forests** must have in at least 70 % of plots placed on a 20 m by 80 m systematic grid or 60 % of plots placed on a 20 m by 40 m systematic grid:
- a total **basal area** of at least 30% of the **basal area** that the site is capable of supporting, or
 - at least 1 acceptable sapling (or coppice) in a 3.57 m radius (40 m²) plot or at least 1 acceptable sapling (or coppice) in a 3.57 m radius (40 m²) plot, or
 - at least 1 acceptable seedling in a 2.27 m radius (16 m²) plot or at least 1 acceptable seedling in a 2.27 m radius (16 m²) plot; and
 - no discrete area greater than 2 ha with less than 400 stems per hectare (caused by recent harvesting).
- 9.1.1.5 An acceptable seedling is defined as a species indigenous to the area in either a seedling, lignotuber, or coppice form. Seedlings, lignotubers and coppice must be over 40 cm in height for **Ash** species and over 25 cm in height for non **Ash** species. For coppice, the stem must be likely to remain attached to the stump and the base of the stem must be within 20 cm of ground level.
- 9.1.1.6 An acceptable sapling (can be in the coppice form) is defined as a species indigenous to the area that is an acceptable size (3–15 m), is not suppressed and has a vigorous, healthy **crown**.
- 9.1.1.7 For both **even-aged** and **uneven-aged silviculture**, acceptable species composition for **regeneration** includes at least 10 acceptable seedling of each eucalypt species present on the site before harvesting.
- 9.1.1.8 Where **stocking**, health or early growth is inadequate, remedial work must be conducted as soon as practicable and within 5 years of the previous **regeneration** attempt to obtain

adequate **regeneration**. Further assessment must be undertaken following remedial treatment to ensure that it has been successfully regenerated.

9.1.2 Stocking Survey Exemptions

9.1.2.1 Coupes created purely for the purpose of road construction or maintenance do not require stocking surveys.

9.1.3 Seed

9.1.3.1 Prioritise seed collection from within areas available for **timber harvesting operations**.

9.1.3.2 Ensure large **hollow**-bearing trees and **habitat trees** retained during previous timber harvesting operations are not felled for seed collection.

9.1.3.3 Collect seed from **stands** that show no evidence of hybridisation and have experienced a widespread and preferably heavy flowering in which trees with good crops are close together.

9.1.3.4 Collect seed only from stands of natural origin or artificially regenerated stands of satisfactory genetic status in which the full, original gene pool of the population is represented. Stands regenerated from seed trees are regarded as of natural origin for seed collection purposes.

9.1.3.5 Prioritise using seed collected from the **coupe**; i.e., regenerate with seed fall from **retained trees** and/or logging slash, or sow the **coupe** with seed collected from that **coupe**. Otherwise, prioritise using seed that meets the following criteria:

- a) the collection site is within 25 km of the **coupe** to be sown;
- b) the mid-elevation of the collection site is within 350 m above to 150 m below the mid-elevation of the **coupe** to be sown;
- c) for slopes $>10^\circ$ the collection and sowing sites have similar aspect (separate between 'drier' aspects (W, NW, N, NE) and 'moister' aspects (SW, S, SE, E); and
- d) the collection and sowing sites are of similar soil type and parent material.

9.1.3.6 Where seed quantities within areas available for timber harvesting operations are inadequate to meet **regeneration** requirements, application may be made to the **Minister** or **delegate** to collect seed from standing trees within areas excluded from timber harvesting operations in accordance with Section 1.4 and Clauses 9.1.3.7 to 9.1.3.10.

- 9.1.3.7 Applications to collect seed from areas excluded from timber harvesting operations will demonstrate that:
- a) seed quantities from areas available for **timber harvesting operations** are inadequate to meet **regeneration** requirements;
 - b) trees will not be felled;
 - c) seed collection is on behalf of the **Crown** or the Secretary, or for **State forest regeneration** requirements;
 - d) there will be no machinery entry into **rainforest** and stream **buffers**;
 - e) SPZ values will be maintained; and
 - f) the operation will be assessed and monitored against any approval conditions.
- 9.1.3.8 Any **approved** seed collection operation in Leadbeater's Possum SPZ will:
- a) maintain **canopy** connectivity, particularly along roads;
 - b) protect **understorey** wattle from damage; and
 - c) exclude **hollow** bearing and pre-1900 aged trees from collection activities.
- 9.1.3.9 Applications to harvest seed from standing trees in areas excluded from harvesting will include:
- a) the species to be collected;
 - b) an estimate of the extracted weight of seed to be collected; and
 - c) the FMA the seed will be collected from.
- 9.1.3.10 Submit applications at least 1 month prior to commencing seed collection.

9.2 Thinning

- 9.2.1.1 Unless otherwise stated, standards and procedures that apply to timber harvesting operations also apply to **thinning** operations.
- 9.2.1.2 In **Ash forests** retain at least 50 % of the live pre-thinning **basal area** and a minimum total retained average **basal area** as outlined in **Table 26 Basal Area (BA) and stocking specifications for commercial ash thinning**.
- 9.2.1.3 In **Mixed Species forests** retain at least 50% of the live pre **thinning basal area** and a minimum total retained average **basal area** of:
- a) 17 m²/ha for **stands** aged 18 – 24 years;
 - b) 21 m²/ha for stands aged 25 – 34 years; and
 - c) 25 m²/ha for stands aged 35+ years.
- 9.2.1.4 In **Box Ironbark forests** retain at least 40 % of the live pre thinning **basal area** and a minimum total retained average **basal area** of 8 m²/ha (**regrowth** and **overwood**/retained habitat included).

9.2.1.5 In River Red Gum (*Eucalyptus camaldulensis*) **forests** retain at least 40 % of the live pre thinning **basal area** and a minimum total retained average **basal area** of 15 m²/ha in riverine and 10 m²/ha in dryland stands (regrowth and **overwood**/retained **habitat trees**).

Appendix 1: Tables and Figures

Table 1 Soil susceptibility to breakdown

Soil factor	Scoring			Horizon		
				A	B	C
Soil texture Score	SC, C, SiC 1	SiCL, CL, SCL 4	SL, L, SiL, LS, S, Si 7			
Soil aggregate stability Score	Unaffected 1	Slaking, slight dispersibility 7	Very dispersible 15			
Soil structure Score	Highly pedal 1	Peds evident 3	Apedal 5			
Soil colour Score	Black, Reddish Black, Dark Brown 1	Light Brown, Light Red 2	Pale Yellow, Grey, White 3			
Soil organic matter	High 1	Moderate 4	Low 7			
Stoniness Score	>50% 1	10-50% 2	<10% 3			
Overall score	<17	17-27	>27			
Rating	Low	Moderate	High			

Table 2 Soil permeability

Soil factor	Scoring			Horizon		
				A	B	C
Soil texture Score	SL, L, LS, S 1	SiL, Si, SiCL, CL, SCL 4	SC, C, SiC 7			
Organic matter Score	High 1	Moderate 2	Low 3			
Impeding layer depth (cm) Score	>50 1	50-25 3	<25 5			
Soil Mottling Score	Not present 1	Slight 2	Well Developed, (Pale) 3			
Stoniness Score	>50% 1	10-50% 2	10% 3			
Stand ht (m) Score	>40 1	28-40 2	<28 3			
Overall score	<11	11-18	>18			
Rating	Very high	High	Low			

Table 3 Soil erosion site factor

Site factor	Scoring			Rating
Erosivity index	<590	591-1469	>1470	
Rating	1	3	5	
Slope (degrees)	0-8	9-21	>21	
Rating	2	4	7	
Slope length / uniformity	Short uniform	Long broken	Long uniform	
Rating	1	2	3	
Revegetation capacity	Good	Moderate	Poor	
Rating	1	2	3	
Overall score	<10	10-14	>14	
Rating	Low	Moderate	High	

Notes:

- Assess soil when moderately moist.
- Stoniness refers to stones greater than 20 mm in size.
- **Stand** height refers to a **mature forest** stand height.

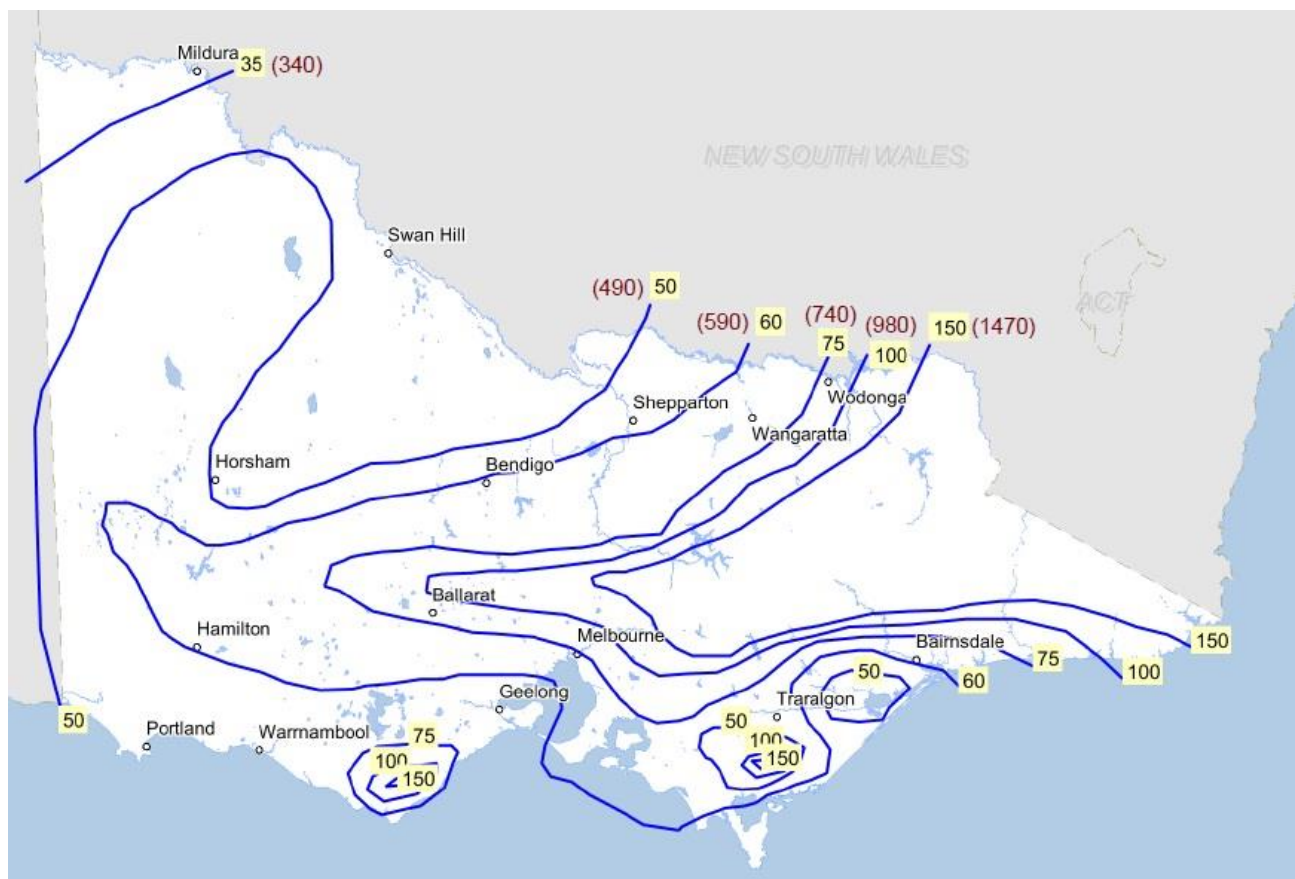


Figure 1 Rainfall erosivity

Rainfall erosivity contours in non-SI units for Victoria (Garvin et al. 1979). SI units (MJ. Mm/ha.h.year) given in parentheses.

Table 4 Soil erodibility classification

Table 1 rating				Horizon	A	B	C
Table 2 rating	Low	Moderate	High	Table 1			
Very High	VERY LOW	LOW	MEDIUM	Table 2			
High	LOW	MEDIUM	HIGH	Classification			
Low	MEDIUM	HIGH	VERY HIGH				

Table 5 Soil erosion hazard classification

Table 4 classification							
Table 3 rating	Very low	Low	Medium	High	Very high	Horizon	A B C
Low	LOW	LOW	LOW	MEDIUM	HIGH	Table 4	
Moderate	LOW	LOW	MEDIUM	HIGH	VERY HIGH	Table 3	
High	LOW	MEDIUM	HIGH	VERY HIGH	VERY HIGH	Classification	

Table 6 Soil permeability classification

Soils with HIGH permeability		Soils with LOW permeability		Horizon	A	B	C
Table 2 score	0 - 18	19+		Table 2			
				Classification			

Table 7 Overall soil category

Soil Permeability Classification (Table 6)	Soil Erosion Classification (Table 5)			
	Low	Medium	High	Very High
Low	M	M	H	VH
High	L	L	M	M

Table 8 Water quality risk

Overall Soil Category	Water Quality Risk
L	Low water quality risk
M	Moderate water quality risk
H	High water quality risk
VH	Very High water quality risk

Table 9 Minimum widths in metres for buffers (B) and filter (F) strips applicable to various waterway categories, in relation to water quality risk and slope

Waterway Class	Sites with low or moderate water quality risk	Sites with high or very high water quality risk	
	Slope 0 - 30°	Slope 0 - 20°	Slope 21 - 30°
1. Pools, permanent streams and wetlands	20 m B	30 m B	40 m B
2. Temporary streams	10 m F	10 m B + 10 m F	20 m B
3. Drainage lines	10 m F	10 m F	15 m F

Table 10 Minimum widths for buffer (B) and filter strips (F) applicable to waterway classes for specified aquatic and riparian habitat-dependant species

Waterway Class	Sites with low or moderate water quality risk	Sites with high or very high water quality risk	
	Slope 0-30°	Slope 0-20°	Slope 21° - 30°
1. Pools, permanent streams and wetlands	30 m B	40 m B	50 m B
2. Temporary streams	20 m B + 10 m F	20 m B + 20 m F	30 m B + 20 m F
3. Drainage lines	10 m F	10 m F	15 m F

Table 11 Water supply protection areas

Catchment	Status	Slope Limit	Seasonal Closure	Stream Buffers	Filter Strips	Additional Management Actions or Comments
Benalla – Mansfield FMA						
Lake Eildon	SWSC	30°	1 June - 31 Oct	20 m	10 m	
Upper Goulburn (Upper Delatite)	SWSC & SAP	30°	1 June - 31 Oct	20 m	10 m	
Lake Nillahcootie	SWSC	30°	1 June - 31 Oct	20 m	10 m	
Ryans Creek	SWSC & SAP; DC	- 30° 30°	- 1 June - 31 Oct 1 June - 31 Oct	- 20 m 20 m	- 10 m 10 m	Max 40 ha max coupe size Category 1: No harvesting Category 2: No clearfall and slope limit <12° Category 3: No clearfall and slope limit <12°
Central FMA						
Sunday Creek	SWSC	30°		20 m	10 m	
Kilmore	SWSC & SAP	30°		20,40, 60 m	10 m	Buffers in accordance with <i>Notice of Determination of Land Use, Plan No. 1633.</i>
Upper Goulburn	SWSC	30°		20 m	10 m	
Dandenong FMA²						
Bunyip River	SWSC & SAP	25°	1 May – 30 Nov	20 m	10 m	60 m buffer upstream of weir.
Britannia Creek	SWSC & SAP	30°	1 July – 30 Sept	20 m	10 m	
Tomahawk Creek	SWSC	30°	1 July – 30 Sept	20 m	10 m	
McCrae's Creek	SWSC & SAP	30°	1 July – 30 Sept	20 m	10 m	60 m buffer upstream of weir.
Micks Creek	SWSC & SAP					Harvesting excluded.
Healesville	SWSC & SAP					Harvesting excluded.
Armstrong Creek East	Restricted					Harvesting excluded.
Learmonth Creek		25°	1 May – 30 Nov	40 m ¹	10 m	Max 7 ha Ash and 3ha MS.
McMahons Creek	Restricted	25°	1 May – 30 Nov	40 m ¹	10 m	A maximum of 30 % of each of these catchments is to be harvested over a 10 year period. There is to be harvesting in only 1 of the 4 restricted access catchments in any 1 year.
Starvation Creek	Restricted	25°	1 May – 30 Nov	40 m ¹	10 m	
Cement Creek	Restricted	25°	1 May – 30 Nov	40 m ¹	10 m	
Armstrong Creek West	Restricted	25°	1 May – 30 Nov	40 m ¹	10 m	
East Gippsland FMA						
Orbost (Rocky River)	SWSC & SAP			100m 40m 30m 100m		40 ha maximum annual area harvested. On main river On major tributaries On other watercourses On off-take wier.
Betka River	SWSC			150m 20m		120 ha (1% of catchment) max annual area harvested On main river On major tributaries and streams
Gippsland FMAs²						
Thomson River	SWSC & SAP	30°	1 May – 30 Nov	40 m ¹	10 m	Subject to additional regulations under the <i>Forests Act 1958</i> which includes limitations on access, camping, hunting with hounds and horse riding. Average 150 ha Ash and 15ha MS on rolling average.

Tyers River	SWSC & SAP	30°	1 June – 31 Oct	20 m	20 m	Applies above 650 m ASL. Harvesting restrictions on land above 1220 m. Buffer within 200 m of Moondarra Reservoir foreshore. Buffer of 40 m on Jacobs Creek up to the Walhalla Road.
Tanjil River	SWSC & SAP	30°	1 June – 31 Oct	20 m	10 m	Closure applies north of Icy Creek – Mt Baw Baw Road.
Tarago River	SWSC & SAP	30°	1 May – 31 Oct	20 m	10 m	Average 55 ha Ash and 23 ha MS on rolling average.
Bunyip River	SWSC & SAP	25°	1 June – 30 Nov	20 m	10 m	
Loch River	SWSC	30°	1 July – 30 Sept	20 m	10 m	
Drouin	SWSC	30°	1 July – 30 Sept	20 m	10 m	
Glenmaggie	SWSC		1 June – 31 Oct	40 m Macalister below Caledonia 40 m Wellington below Carey 40 m Barkley below Mt Skene Creek 40 m of Glenmaggie Creek below east and west branches		
Mirboo North	SWSC & SAP			Buffer of 100 m around the off-take weir Buffer from the banks of streams, watercourses and spring areas. 40 m buffer on the Little Morwell River and 20 m for other water courses.		
Tarra River	SWSC		1 June – 31 Oct			
North East FMA						
Lake Hume (Northern)	SWSC		1 July – 30 Sept			
Mount Tabor Creek	DC		1 July – 30 Sept			40 ha maximum annual area harvested.
Black Dog Creek	DC		1 July – 30 Sept			30 ha maximum coupe size.
Bakers Gully Creek	SWSC; DC		1 July – 30 Sept			20 ha maximum coupe size.
West Kiewa River	DC		1 July – 30 Sept			40 ha maximum coupe size.
Musk Gully Creek	DC		1 July – 30 Sept			35 ha maximum coupe size.
Diddah Diddah Creek	SWSC; DC		1 July – 30 Sept			20 ha maximum coupe size.
Otway FMA³						
Lorne – St Georges River		25°	1 May – 30 Nov			Max harvest 2.5 % per year and 15 % per decade of total forested area of each catchment.
Barham River	SWSC	25°	1 May – 30 Nov			
Upper Barwon	SWSC	25°	1 June – 31 Oct			Max harvest 5 % per year and 25 % per decade of total forested area of each catchment.
Gellibrand River	SWSC	25°	1 June – 31 Oct			
Painkalac Creek	SWSC & SAP	25°	1 June – 30 Sept			
Pennyroyal Creek	SWSC	25°	1 June – 30 Sept			
Matthews Creek	SWSC	25°	1 June – 30 Sept			
Gosling Creek	SWSC	25°	1 June – 30 Sept			
Tambo FMA						
Lake Hume (Northern)	SWSC		30 June – 1 Oct			In accordance with Plan No. S-1275B.
Mitchell River	SWSC		30 June – 1 Oct			Seasonal closure applies above 900 m.
Nicholson River	SWSC & SAP	30°		200 m buffer around the Nicholson Reservoir and Water supply off-take on the Nicholson River. 40 m buffer around Nicholson and Barmouth Rivers. 20 m buffer from banks of permanent streams & drainage lines		

Maps outlining above are shown on Plan No. S-1411.
Obtain instruction on implementing plan from Operations
Planning before marking.

Notes:

- Restricted – restricted access catchments managed by agreement between Melbourne Water and the Department.
- ¹ Major streams only.
- ² In addition to the above prescriptions for the **Gippsland FMAs** and the Dandenong FMA, refer to clauses 3.5.1.5 and 3.5.1.6 of these **Management Standards and Procedures**.
- ³ Within the Otway FMA, 20° and 15° slope limits will be applied in special water supply catchments in areas of Land Degradation Hazard Class 4 and 5 respectively.

Table 12 Habitat tree prescriptions

Locality	Forest Type	Habitat Tree Retention Rates	Comment
Central Highlands FMAs	Ash/HEMS	All live ash eucalypts originating before 1900. At least 40 trees per 10 ha for the length of the rotation in ash forests originating since 1900	Retain at least 1 potential hollow -bearing tree where gaps between retained trees are greater than 150 meters, Retained trees should be a mixture of hollow bearing trees where present and other trees most likely to develop hollows in the short term.
	Mixed Species	40+ trees per 10 ha	
East Gippsland FMA	All	4 – 5 trees per ha	Count seed trees towards habitat tree numbers.
Gippsland FMAs	All	4 – 5 tree per ha	Count seed trees towards habitat tree numbers.
Horsham FMA	All	10 trees per 10 ha 5 potential habitat trees per 10 ha 5 dead trees with hollows per 10 ha	Any additional trees above the 10 trees per 10 ha should be retained in place of potential habitat and dead trees.
Midlands FMA	All except Box Ironbark	3 trees per ha	Refer to Bendigo for Box-ironbark prescriptions.
Mid Murray FMA	All	20 trees per 10 ha (≥50 cm but ≤100 cm DBHOB) Retain all trees (>100 cm DBHOB)	
North East FMAs	Ash/HEMS	4 – 5 trees per ha	
	Mixed Species	4 – 5 trees per ha	Count seed trees towards habitat tree numbers.
Otway FMA	All	5 trees per ha (net coupe area) / 10 trees per ha (gross coupe area)	
Portland FMA	All	Retain habitat trees to a basal area of 2 – 4m ² /ha	Group selection.

Notes:

- In all cases except the Otway FMA, **habitat tree** retention rates apply to the **net coupe area**.
- The **net coupe area** is the **gross coupe area**, less areas excluded (e.g. streamside **buffers**, **rainforest** buffers, and Heritage River Areas). Large and readily identifiable **exclusion areas** (e.g. Large areas >30°) should be identified prior to the commencement of **timber harvesting operations**, roading and **regeneration**. Smaller exclusions that are not readily identified until timber harvesting operations commence (e.g. small rocky areas, small areas of steep slope, inaccessible areas) may be left unharvested and counted as retained habitat within the net **coupe** area.
- The minimum number of trees required to be retained as habitat relative to the area harvested (**net harvest area**) is a product of the specified rate and the **net harvest area**. E.g., 20 ha **net harvest area** × 4 - 5 trees per ha = 80 - 100 trees to be retained has habitat.
- This total number of trees retained as habitat can be dispersed across the **coupe** or retained in clumps, prioritising the types and arrangement of trees as relevant to section 4.1 of the MSP.

Table 13 Rare or threatened fauna and invertebrate prescriptions

Species Name	Value	Applicable FMAs	Management Actions
Alpine She-oak Skink <i>Cyclodomorphus praealtus</i>	Verified individual (site occupied by at least 1 observed individual)	North East FMAs	Develop management actions to protect Alpine She-oak Skink habitat at verified sites. Document and provide to the Secretary a proposed plan for the value management area.
Alpine Tree Frog <i>Litoria verreauxii alpina</i>	Verified individual (site occupied by at least 1 observed individual)	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to SPZ of approximately 50 ha over each verified site. Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations.
	Verified population	North East FMAs	Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations . Document and provide to the Secretary a proposed plan for the value management area.
Alpine Water Skink <i>Eulamprus kosiuskoi</i>	Verified population	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations. (SMZ Conditions - Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations).
Apostlebird <i>Struthidea cinerea</i>	Verified population	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified sites of resident populations. (SMZ Conditions - Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations).
Australasian Darter <i>Anhinga novaehollandiae</i>	Verified roosting and breeding site	Mid-Murray FMA	Exclude activities likely to disturb breeding activity within 250m region around current roosting and breeding sites of colonially-nesting waterbirds during the breeding season
Australian Grayling <i>Prototrodes maraena</i>	Verified population	Portland-Horsham FMA East Gippsland FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ extending 100 m from each bank for 1 km upstream and 1 km downstream of verified populations. Avoid constructing new roads in the exclusion area .

Species Name	Value	Applicable FMAs	Management Actions
Australian Hobby <i>Falco longipennis</i>	Verified nest tree	Otways FMA	Apply an exclusion area equivalent to 100m radius around verified nest trees.
Australian White Ibis <i>Threskiornis molucca</i>	Verified roosting and breeding site	Mid-Murray FMA	Exclude activities likely to disturb breeding activity within 250m region around current roosting and breeding sites of colonially-nesting waterbirds during the breeding season
Bandy <i>Vermicella annulata</i>	Verified individual (site occupied by at least 1 observed individual)	North East FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of approximately 50 ha over each verified site, where practicable incorporating the detection site. Review the strategy when 20 SPZ are established.
	Verified individual (site occupied by at least 1 observed individual)	Mid-Murray FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to a SMZ of approximately 50 ha over verified sites, where practicable incorporating the detection site. Conduct a site inspection and detailed planning in consultation with DELWP to ensure the species is adequately protected during timber harvesting operations .
Barking Owl <i>Ninox connivens</i>	Verified roosting and nesting tree	Statewide	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 3 ha and designate a management area equivalent to a SMZ of 250-300 m radius (or equivalent linear area) around each verified nesting and roosting site utilised recently and frequently and located outside a Barking Owl Management Area. (A SMZ is not required where existing zoning or public land tenure provides equivalent or greater protection of the roosting or nesting site).
			Document and provide to the Secretary a proposed plan for the value management area prior to harvesting commencement. The plan will protect hollow-bearing trees for owls and prey species along with younger trees that may provide hollows in future. These areas will be managed to maintain habitat capable of supporting adequate populations of birds and arboreal prey mammals to support breeding owls. Exclude timber harvesting in designated management area or SMZs around nest trees during the breeding season (1 July - 31 December).
Barred Galaxias <i>Galaxias fuscus</i>	Existing SMZ for Barred Galaxias or waterways containing new verified population	Central Highlands FMAs Gippsland FMAs North East FMAs	Apply minimum stream buffer and filter strip widths (specified in Table 10) 1km upstream of new Barred Galaxias populations or in existing SMZ for Barred Galaxias. Minimise stream crossings over waterways in catchments containing Barred Galaxias.

Species Name	Value	Applicable FMAs	Management Actions
Black Falcon <i>Falco subniger</i>	Verified nesting tree	Portland-Horsham FMA	<p>Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 250 m radius over each verified nesting site.</p> <p>Within 250m of verified nesting site, avoid timber harvesting, road construction and burning during breeding season. Apply an exclusion area equivalent to 100m radius around verified nest trees</p>
Blue Mountains Tree Frog <i>Litoria citropa</i>	Populations of more than 50 individuals	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ extending 100 m from each bank for 500 m upstream and 500 m downstream for verified sites of more than 50 individuals.
Brush-tailed Phascogale <i>Phascogale tapoatafa</i>	Verified individual (site occupied by at least 1 observed individual) in areas where species is not understood to occur	Statewide	Where evidence of this value is identified in coupes in the field and in FMAs where the species is not understood to occur, notify the Secretary and determine whether the value occurs in an existing Brush-tailed Phascogale Management Area (BPMA) or whether a new BPMA may be required. If a new BPMA is required, designate a management area equivalent to a SMZ that protects and maintain Brush- tailed Phascogale populations and their habitat, retaining large trees and naturally fallen timber.
Bush Stone-curlew <i>Burhinus grallarius</i>	Verified nesting site	Portland-Horsham FMA	<p>Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 250 m radius over each verified nesting site.</p> <p>Within the designated management area, avoid any burning during breeding season. At all other times retain any logs and other fallen timber in the area.</p>
Carpet Python <i>Morelia spilota metcalfei</i>	Verified population	Mid Murray FMA	Protect verified populations from disturbance where practicable during the hibernating (1 April to 30 September) and breeding (1 November to 28 February) periods respectively.
	Verified population	North East FMAs	<p>Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 250 m radius over verified populations.</p> <p>Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations.</p>
Common Bentwing Bat <i>Miniopterus schreibersii oceanensis</i>	Verified colony	Central Highlands FMAs North East FMAs	Apply a 100 m buffer around verified colonies.

Species Name	Value	Applicable FMAs	Management Actions
	Verified roosting and over-wintering sites	Midlands FMA	<p>Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 100 m radius over verified roosting and over-wintering sites.</p> <p>Within 100m of verified roosting and over-wintering sites, exclude timber harvesting, road construction and other activities likely to disturb over-wintering bats between 1 May to 31 October.</p>
	Verified breeding, roosting caves, trees and mines and over-wintering sites	Gippsland FMAs East Gippsland FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 100 m radius over verified breeding and roosting caves, trees and mines and over-wintering sites.
Common Brush-tailed Possum <i>Trichosurus vulpecula</i>	Relative abundance (More than 10 per Spotlight Kilometre)	East Gippsland FMA	<p>Establish an exclusion area equivalent to a SPZ of approximately 100 ha of suitable habitat where verified records report a relative abundance of more than 10 individuals per spotlight kilometre (equivalent to more than 2 individuals per hectare or more than 15 individuals per hour of spotlighting), or where substantial populations are located in isolated or unusual habitat.</p> <p>Note: Assumed rate of spotlighting per kilometre is 100mins per 1km and visible range either side of transect for this species is 25m, equating to assumed minimum survey area of 5 hectares.</p>
Common Dunnart <i>Sminthopsis murina</i>	Verified population	Central Highlands FMAs Midlands FMA Portland-Horsham FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of approximately 20 ha of suitable habitat over verified sites.
Cox's Gudgeon <i>Gobiomorphus coxii</i>	Verified population	East Gippsland FMA	<p>Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ extending 100 m from each bank for 1 km upstream and 1 km downstream of verified populations.</p> <p>Avoid constructing new roads in the exclusion area.</p>
Diamond Python <i>Morelia spilota spilota</i>	Verified population	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 100 ha of suitable habitat for each verified locality of this species.
Dwarf Galaxias <i>Galaxiella pusilla</i>	Verified population	Portland-Horsham FMA	Minimise stream crossings over permanent and temporary streams and drainage lines in catchments containing Dwarf Galaxias.
Eastern Broad-nosed Bat <i>Scotorepens orion</i>	Verified population Or	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of approximately 100 ha of older forest over sites where more than 10 individuals are captured in one trapping session.

Species Name	Value	Applicable FMAs	Management Actions
	Relative abundance per Spotlight Kilometre		
Eastern Great Egret <i>Ardea modesta</i>	Current roosting and breeding sites	Portland-Horsham FMA	Exclude activities likely to disturb breeding activity within 250 m region around current roosting and breeding sites of colonially-nesting waterbirds during the breeding season.
Eastern Horseshoe Bat <i>Rhinolophus megaphyllus</i> <i>megaphyllus</i>	Verified colonies	Central Highlands FMAs	Apply a 100 m buffer around verified colonies.
	Verified breeding and roosting caves, trees and mines and over-wintering sites	Gippsland FMAs East Gippsland FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 100 m radius over verified breeding and roosting caves, trees and mines and over-wintering sites.
Eastern Pygmy-possum <i>Cercartetus nanus</i>	Relative abundance (More than 5 per pitfall trap)	East Gippsland FMA	Where verified records report more than 5 individuals per standard pitfall line over 5 days, or where substantial populations are located in isolated or unusual habitat, apply an exclusion area equivalent to a SPZ of approximately 100 ha of suitable habitat.
Eltham Copper Butterfly <i>Paralucia pyrodiscus lucida</i>	Verified populations Host plant <i>Bursaria spinosa</i>	Portland-Horsham FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations. Protect the host plant <i>Bursaria spinosa</i> (Sweet Bursaria) within 250 m of any records of this species.
Four-toed Skink <i>Hemiergis peronii</i>	Verified populations	Midlands FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Freshwater Herring <i>Potamalosa richmondia</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ extending 100m from each bank for 1 km upstream and 1 km downstream of verified populations. Avoid constructing new roads in the exclusion area .
Giant Burrowing Frog <i>Heleioporus australiacus</i>	Verified populations	Gippsland FMAs East Gippsland FMA	Where verified records of Giant Burrowing Frog are located on first-order streams or sites away from streams, apply an exclusion area equivalent 50 ha (preferably the entire sub catchment unit) in SPZ. Where verified records of Giant Burrowing Frog are located on second or higher order streams, apply an

Species Name	Value	Applicable FMAs	Management Actions
			<p>exclusion area equivalent to an SPZ of 100 m width each side of the stream for 1km upstream and downstream of the detection site.</p> <p>Note: For the purposes of this prescription, a first order stream is the headwaters of a catchment and is the smallest stream mapped on the 1:100 000 Natmap series. Second order streams are the next level of stream further down the catchment. For first order streams the size of each catchment will vary, however target size is approximately 50 ha.</p> <p>For off stream records where evidence of this value is found in the field, apply an exclusion area equivalent a SPZ of 50ha over the record or equivalent area of suitable habitat nearby.</p> <p>Avoid new roading in the exclusion area.</p> <p>Review this strategy when 50 sites are located in Victoria.</p>
<p>Giant Gippsland Earthworm <i>Megascolides australis</i></p>	Verified populations	Gippsland FMAs	<p>Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations.</p> <p>Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations.</p>
<p>Glenelg Freshwater Mussel <i>Hyridella glenelgensis</i></p>	Verified populations	Portland-Horsham FMA	<p>Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ extending 100 m from each bank for 1 km upstream and 1 km downstream of verified populations.</p> <p>Disturbance that could impact on water quality must be avoided within the exclusion area.</p>
<p>Glossy Black-Cockatoo <i>Calyptorhynchus lathami lathami</i></p>	Verified nesting site	Gippsland FMAs East Gippsland FMA	<p>Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 250 m radius over each verified nesting site.</p> <p>Within 250m of verified nest tree, exclude timber harvesting, road construction and burning during the breeding season (December to May). Search the surrounding forest for other active nest sites (the species is known to nest in clusters). Apply an exclusion area equivalent to 100m radius around verified nest trees.</p> <p>Where Black She-oak stands are identified timber harvesting (including post harvesting burning) and new roading activities will be conducted in a manner that avoids damage to the stand.</p>

Species Name	Value	Applicable FMAs	Management Actions
			The definition of a Black She-oak stand is a group or groups of trees with a basal area equal to or greater than 10 m ² in an area of 0.25 hectares.
Golden Sun Moth <i>Synemon plana</i>	Verified populations	Portland-Horsham FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations. Detailed planning is required to ensure population is protected from timber harvesting.
Great Cormorant <i>Phalacrocorax carbo</i>	Verified populations	Mid-Murray FMA	Exclude activities likely to disturb breeding activity within 250 m region around current roosting and breeding sites of colonially-nesting waterbirds during the breeding season.
Greater Glider <i>Petauroides volans</i>	Relative abundance (More than 10 per Spotlight Kilometre)	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of approximately 100 ha of suitable habitat where verified records report a relative abundance of more than 10 individuals per spotlight kilometre (equivalent to more than 2 individuals per hectare or more than 15 individuals per hour of spotlighting), or where substantial populations are located in isolated or unusual habitat. Note: Assumed rate of spotlighting per kilometre is 100mins per 1km and visible range either side of transect for this species is 25m, equating to assumed minimum survey area of 5 hectares.
Grey Goshawk <i>Accipiter novaehollandiae</i>	Nest trees used within the last 5 years	Central Highlands FMAs North East FMAs	Apply a 100 m buffer around nest trees used within the last 5 years. Exclude timber harvesting operations within 250 m of nest trees during breeding season.
	Nest trees	Otways FMA	Buffer nest trees by 100 m, and avoid burning at all times.
	Verified nesting sites	Midlands FMA Gippsland FMAs Portland-Horsham FMA Bendigo FMA East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 250 m radius over verified nesting sites. Within 250m of verified nesting site, avoid timber harvesting, road construction and burning activities during breeding season. Breeding season is 1 July to 30 November. Apply an exclusion area equivalent to 100m radius around verified nest trees. Review this strategy when 10 sites have been established in State forest.
Grey-crowned Babbler <i>Pomatostomus temporalis</i>	Active colonies	Mid-Murray FMA	Apply a buffer of 200 m radius around active colonies utilising River Red Gum (<i>Eucalyptus camaldulensis</i>) forest on the western edge of Guttram State forest and the southern edge of Benwell State Forest. Review this prescription when stand type and structural habitat requirements are understood. Establish a buffer of

Species Name	Value	Applicable FMAs	Management Actions
			100 m radius around verified active colonies elsewhere.
Grey-headed Flying-fox <i>Pteropus poliocephalus</i>	Roost site that has a pattern of regular seasonal use	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 100 m radius for a roost site that has a pattern of regular seasonal use. Schedule timber harvesting operations and burning to minimise disturbance to active colonies if found in State forest.
	Active colonies	Portland-Horsham FMA	Schedule timber harvesting operations to minimise disturbance to active colonies if found in State forest.
Hooded Scaly-foot <i>Pygopus schraderi</i>	Verified populations	Mid-Murray FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of approximately 50 ha over verified populations, where practicable incorporating the detection site. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
	Current roosting and breeding sites	Portland-Horsham FMA	Exclude activities likely to disturb breeding activity within a 250 m region around current roosting and breeding sites of colonially-nesting waterbirds during the breeding season.
Plumed Egret <i>Ardea intermedia plumifera</i>	Current roosting and breeding sites	Portland-Horsham FMA	Exclude activities likely to disturb breeding activity within a 250 m region around current roosting and breeding sites of colonially-nesting waterbirds during the breeding season.
	Current roosting and breeding sites	Mid-Murray FMA	Exclude activities likely to disturb breeding activity within a 250 m region around current roosting and breeding sites of colonially-nesting waterbirds during the breeding season.
King Quail <i>Synoicus chinensis</i>	Wet heaths	Portland-Horsham FMA	Protect wet heaths within 20ha radius of verified records of this species. Harvesting should be minimised close to wet heaths and drainage patterns must not be altered.
Koala <i>Phascolarctos cinereus</i>	Verified resident populations or substantial populations located in isolated or unusual habitat	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of approximately 100 ha of suitable habitat over verified resident populations or substantial populations located in isolated or unusual habitat.
Lace Monitor <i>Varanus varius</i>	Verified populations	Portland-Horsham FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations. Detailed planning is required to ensure population is protected from timber harvesting.

Species Name	Value	Applicable FMAs	Management Actions
Large Brown Tree Frog <i>Litoria littlejohni</i>	Verified detection (adult, sub-adult, tadpole or egg cluster)	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 28 ha that includes the verified detection site.
Leadbeater's Possum habitat/colony <i>Gymnobelideus leadbeateri</i>	Verified Leadbeater's Possum colony OR Zone 1A habitat or Zone 1B habitat	Central Highlands FMAs	<p>Colony</p> <p>Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius centred on each verified Leadbeater's Possum colony.</p> <p>OR</p> <p>Zone 1A Habitat</p> <p>Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ over areas of Zone 1A habitat where there are more than 10 hollow bearing trees per 3 ha in patches greater than 3 ha. (Ensure Zone 1A habitat is not salvage logged).</p> <p>Zone 1B Habitat</p> <p>Apply an exclusion area over Zone 1B habitat where there are more than 12 hollow bearing trees per 3 ha in patches greater than 10 ha and wattle density exceeds 5 m²/ha. This prescription applies until either of the two Zone 1B attributes:</p> <ol style="list-style-type: none"> 1. the presence of dead mature or senescent living trees; or 2. wattle understorey no longer exists.
Little Black Cormorant <i>Phalacrocorax sulcirostris</i>	Current roosting and breeding sites	Mid-Murray FMA	Exclude activities likely to disturb breeding activity within 250 m region around current roosting and breeding sites of colonially-nesting waterbirds during the breeding season.
Little Egret <i>Egretta garzetta</i>	Current roosting and breeding sites	Portland-Horsham FMA Mid-Murray FMA	Exclude activities likely to disturb breeding activity within 250 m region around current roosting and breeding sites of colonially-nesting waterbirds during the breeding season.
Little Falcon <i>Falco longipennis</i>	Verified nesting site	East Gippsland FMA	<p>Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 250 m radius over each verified nesting site.</p> <p>Within 250m of verified nesting site, avoid timber harvesting, road construction and burning during breeding season. Apply an exclusion area equivalent to 100m radius around verified nest trees.</p>

Species Name	Value	Applicable FMAs	Management Actions
Little Pied Cormorant <i>Microcarbo melanoleucos</i>	Current roosting and breeding sites	Mid-Murray FMA	Exclude activities likely to disturb breeding activity within 250 m region around current roosting and breeding sites of colonially-nesting waterbirds during the breeding season.
Long-footed Potoroo <i>Potorous longipes</i>	Detection site	North East FMAs East Gippsland FMA	<p>Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of approximately 150 ha for each Long-footed Potoroo detection site that is outside the Core Protected Area (i.e. within existing SPZ and conservation reserves).</p> <p>Notes: As far as possible, SMZ boundaries will follow recognisable landscape features such as ridges, spurs and watercourses. Within each SMZ, at least one third (50 ha) will be protected from timber harvesting and new roading. This will be known as Long-footed Potoroo Retained Habitat. The LFP Retained Habitat will include the best LFP habitat in the SMZ, which will generally be in gullies and on lower, sheltered slopes. The LFP Retained Habitat may include areas otherwise unavailable for timber harvesting due to restrictions under the Code. The SMZ will also have a general restriction of one third of the total area that can be harvested in any three year period. If more than one coupe is to be harvested in a SMZ in the same year, the coupes must be separated by at least the equivalent of another coupe width. The SMZ, with the LFP Retained Habitat clearly delineated, will be shown as part of the Forest Management Area zoning scheme. If the 150 ha area includes any part of an existing conservation reserve or SPZ, these areas will retain their existing reservation or zoning status but will be considered for inclusion as part of the area of retained habitat. In such cases, the final area designated as special management area or SMZ may be correspondingly smaller.</p>
Long-nosed Potoroo <i>Potorous tridactylus trisulcatus</i>	Gully lines and patches of dense vegetation	Portland-Horsham FMA	Protect gully lines and patches of dense vegetation in areas where this species is known to occur and that are currently not protected through SPZ or SMZ.
Mallacoota Burrowing Crayfish <i>Engaeus mallacoota</i>	Known sites	East Gippsland FMA	Where evidence of this value is found in the field, establish a 100 m buffer from each bank for 1 km upstream and 1 km downstream of known Mallacoota Burrowing Crayfish sites. Avoid road construction and stream crossings within these stream buffers .
Malleefowl <i>Leipoa ocellata</i>	Verified active nesting mound	Portland-Horsham FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 3 ha and a management area equivalent to a SMZ of 250-300 m radius over each verified active nesting mound.

Species Name	Value	Applicable FMAs	Management Actions
Masked Owl <i>Tyto novaehollandiae</i>	Verified nesting and roosting site utilised recently and frequently	Central Highlands FMAs Midlands FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 250 m radius over each verified nesting and roosting site utilised recently and frequently and located outside a Masked Owl Management Area, unless already protected. Within 250m of the verified nesting or roosting site, protect habitat elements such as old hollow-bearing trees that may be used by Masked Owls and their prey. Exclude timber harvesting, road construction and other activities likely to disturb breeding activity during the breeding season. Buffer nest trees by 100 m.
	Old hollow-bearing trees		
	Verified nesting and roosting site utilised recently and frequently	Gippsland FMAs North East FMAs Portland-Horsham FMA East Gippsland FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 3 ha and a management area equivalent to a SMZ of 250-300 m radius (or equivalent linear area) over each verified nesting and roosting site utilised recently and frequently and located outside a Masked Owl Management Area, unless already protected. (In these cases, habitat for foraging is already provided in areas excluded from timber harvesting by general prescription including wildlife corridors, steep areas and unmerchantable areas and areas protected for other management purposes).
	Habitat elements		Within 250-300m of verified nesting or roosting site, protect habitat elements such as old hollow-bearing trees that may be used by Masked Owls and their prey. Exclude timber harvesting, road construction and burning during the breeding season.
	Verified nesting and roosting site utilised recently and frequently	Otways FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 3 ha over each verified nesting and roosting site utilised recently and frequently and located outside a Masked Owl Management Area, unless already protected. (In these cases, habitat for foraging is already provided in areas excluded from timber harvesting by general prescription including wildlife corridors, steep areas and unmerchantable areas and areas protected for other management purposes).
	Habitat elements		Within 250-300m of verified nesting or roosting site, protect habitat elements such as old hollow-bearing trees that may be used by Masked Owls and their prey.

Species Name	Value	Applicable FMAs	Management Actions
Mount Stirling stonefly <i>Thaumatoperla flaveola</i>	Permanent streams	Gippsland FMAs	<p>In known Mount Stirling stonefly habitat apply:</p> <p>-50 m buffers to permanent streams on the boundary of the logging coupe.</p> <p>-30 m buffers to permanent streams within the boundary of a logging coupe. Where the permanent stream commences within the coupe, apply the buffer for a distance of 30 m above the head of the permanent stream.</p> <p>-15 m filter strips to drainage lines. Where the drainage line commences within the coupe, apply the filter strip for a distance of 15 m above the head of the drainage line.</p>
Mountain Dragon <i>Rankinia diemensis</i>	Verified populations	Midlands FMA	<p>Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations.</p> <p>Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations.</p>
Mountain Galaxias <i>Galaxias olidus</i>	Permanent and temporary streams and drainage lines in catchments	Gippsland FMAs	<p>Minimise stream crossings over permanent and temporary streams and drainage lines in catchments containing Mountain Galaxias.</p>
	Verified populations	North East FMAs	<p>Apply minimum stream buffer and filter strip widths specified in Table 10 for 1 km upstream of verified Mountain Galaxias populations or existing SMZ for Mountain Galaxias.</p> <p>Minimise stream crossings over waterways in catchments containing Mountain Galaxias.</p>
	Verified populations	East Gippsland FMA	<p>Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ extending 100m from each bank for 1 km upstream and 1 km downstream of verified populations.</p> <p>Avoid constructing new roads in the exclusion area.</p> <p>Review this strategy when 50 significant fish sites have been located.</p>
Mountain Pygmy-possum <i>Burramys parvus</i>	Verified populations	North East FMAs	<p>Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations.</p> <p>Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations.</p>

Species Name	Value	Applicable FMAs	Management Actions
Nankeen Night Heron <i>Nycticorax caledonicus</i>	Around current roosting and breeding sites	Mid-Murray FMA	Exclude activities likely to disturb breeding activity within 250 m region around current roosting and breeding sites of colonially-nesting waterbirds during the breeding season.
Narracan Burrowing Crayfish <i>Engaeus phyllocercus</i>	Narracan Burrowing Crayfish sites	Gippsland FMAs	Avoid road construction and stream crossings within stream buffers for 1 km upstream of Narracan Burrowing Crayfish sites. Design snig tracks to minimise alteration to drainage patterns in coupes adjacent Narracan Burrowing Crayfish sites on floodplain or seep zones. Avoid burning during late spring and early summer. Conduct burns when the moisture differential between Narracan Burrowing Crayfish habitat and the coupe is adequate to prevent the habitat from burning.
Native fish	Major streams Permanent streams Temporary streams	Otways FMA	For timber harvesting coupes adjacent Aire River, Carlisle River and Gellibrand River apply: - 100 m buffers to sections considered major streams; - 50 m buffers to sections considered permanent streams; and - 10 m buffers to sections considered temporary streams or greater if required to mitigate water quality risk.
New Holland Mouse <i>Pseudomys novaehollandiae</i>	Preferred habitat	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 100 ha of preferred habitat including the detection site wherever possible.
Orbost Spiny Crayfish <i>Euastacus diversus</i>	Verified detection sites	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ extending 100m from each bank for 1 km upstream and 1 km downstream of verified detection sites. Avoid constructing new roads and stream crossings within the exclusion area . Manage nearby regeneration burns to ensure the exclusion area is not burnt.
Otway Stonefly <i>Eusthenia nothofagi</i>	Major streams Permanent streams Temporary streams	Otways FMA	In timber harvesting coupes within critical habitat of Otway Stonefly apply: - 100 m buffers to sections of the Aire River, Carlisle River, Gellibrand River considered major streams; - 50 m buffers to permanent streams; and - 10 m buffers to temporary streams or greater if required to mitigate water quality risk
Pale Sun Moth <i>Synemon selene</i>	Verified populations	Portland-Horsham FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations. Detailed planning is required to ensure population is protected from timber harvesting.

Species Name	Value	Applicable FMAs	Management Actions
Peregrine Falcon <i>Falco peregrinus</i>	Verified nesting site	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 250 m radius over each verified nesting site. Within 250m of the verified nesting site, avoid timber harvesting, road construction and burning during breeding season. Apply an exclusion area of 100m radius around verified nesting site.
	Nest trees	Otways FMA	Buffer nest trees by 100 m, and avoid burning at all times.
Powerful Owl <i>Ninox strenua</i>	Verified nesting and roosting site	Central Highlands FMAs Midlands FMA Gippsland FMAs North East FMAs Portland-Horsham FMA Bendigo FMA East Gippsland FMA Mid-Murray FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 3 ha and a management area equivalent to a SMZ of 250-300 m radius (or equivalent linear area) around each verified nesting and roosting site, unless already protected. Outside of Powerful Owl Management Areas, habitat for foraging is provided in areas excluded from timber harvesting by general prescription including wildlife corridors, steep areas and unmerchantable areas and areas protected for other management purposes. Avoid burning operations within 250m of known nest sites during the breeding season (1 May to 30 November). Within 250-300m of verified nesting or roosting site, exclude timber harvesting, road construction and burning during the breeding season.
	Verified nesting and roosting site	Otways FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 3 ha over each verified nesting and roosting site, unless already protected.
Regent Honeyeater <i>Anthochaera phrygia</i>	Verified detections outside of known sites	Midlands FMA	If Regent Honeyeaters are found to be present in an area not listed as a regularly used site, exclude the area from timber harvesting operations until its significance for Regent Honeyeaters can be assessed by the Recovery Team and appropriate prescriptions devised.
Rich reptile and amphibian sites	Sites verified as being particularly rich in reptiles or amphibians	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of at least 10 ha at sites verified as being particularly rich in reptiles or amphibians
Royal Spoonbill <i>Platalea regia</i>	Current roosting and breeding sites	Mid-Murray FMA	Exclude activities likely to disturb breeding activity within 250 m region around current roosting and breeding sites of colonially-nesting waterbirds during the breeding season.

Species Name	Value	Applicable FMAs	Management Actions
Sapphire Skink <i>Morethia adelaidensis</i>	Verified populations	Portland-Horsham FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations. Detailed planning is required to ensure population is protected from timber harvesting.
Significant fish	Verified sites supporting 3 or more threatened fish species, or verified sites supporting 6 or more native freshwater fish species	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ extending 100 m from each bank for 1 km upstream and 1 km downstream of verified sites supporting 3 or more threatened fish species, or verified sites supporting 6 or more native freshwater fish species. Avoid constructing new roads in the exclusion area .
Small Brown Azure Butterfly <i>Ogyris otares</i>	Host plant Berry broombush (<i>Choretrum glomeratum</i>)	Portland-Horsham FMA	Protect the host plant Berry broombush (<i>Choretrum glomeratum</i>) within 250m of any records of this species.
Smoky Mouse <i>Pseudomus fumeus</i>	Verified records	Central Highlands FMAs Gippsland FMAs North East FMAs Portland-Horsham FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of approximately 100 ha over verified records incorporating the detection site wherever possible. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations or road construction commencement, incorporating any relevant information from studies of the species.
Sooty Owl <i>Tyto tenebricosa</i>	Verified nesting and roosting site utilised recently and frequently and located outside a Sooty Owl Management Area, unless already protected	Central Highlands FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 250 m radius over each verified nesting and roosting site utilised recently and frequently and located outside a Sooty Owl Management Area, unless already protected. In these cases, habitat for foraging is already provided in areas excluded from timber harvesting by general prescription including wildlife corridors, steep areas and unmerchantable areas and areas protected for other management purposes. Within 250m of verified nesting or roosting site, exclude timber harvesting, road construction and other activities likely to disturb breeding activity during the breeding season. Buffer nest trees by 100 m.

Species Name	Value	Applicable FMAs	Management Actions
	Verified nesting and roosting site utilised recently and frequently and located outside a Sooty Owl Management Area, unless already protected	Gippsland FMAs North East FMAs East Gippsland FMA	<p>Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 3 ha and a management area equivalent to a SMZ of 250-300 m radius (or equivalent linear area) over each verified nesting and roosting site utilised recently and frequently and located outside a Sooty Owl Management Area, unless already protected. In these cases, habitat for foraging is already provided in areas excluded from timber harvesting by general prescription including wildlife corridors, steep areas and unmerchantable areas and areas protected for other management purposes.</p> <p>Within 250-300m of verified nesting or roosting site, exclude timber harvesting, road construction and burning during the breeding season.</p>
South Gippsland Spiny Crayfish <i>Euastacus neodiversus</i>	Verified sites	Gippsland FMAs	Develop management actions to protect South Gippsland Crayfish habitat at verified sites in State forest.
Southern Barred Frog <i>Mixophyes balbus</i>	Verified records	East Gippsland FMA	<p>Where verified records of Southern Barred Frog are located on first-order streams or sites away from streams, protect approximately 50 ha (preferably the entire sub catchment unit) in SPZ . Where verified records of Southern Barred Frog are located on second or higher order streams, apply an exclusion area equivalent to a SPZ of 100 m width each side of the stream for 1 km upstream and downstream of the detection site.</p> <p>Avoid constructing new roads in the exclusion area.</p> <p>Review this strategy when an Action Statement is prepared.</p>
Southern Bent-wing Bat <i>Miniopterus schreibersii</i>	Verified breeding and roosting caves and mines, and over-wintering sites	North East FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 100 m radius over verified breeding and roosting caves and mines, and over-wintering sites.
Southern Brown Bandicoot <i>Isodon obesulus</i>	Gully lines and patches of dense vegetation	Portland-Horsham FMA	Protect gully lines and patches of dense vegetation in areas where this species is known to occur and that are currently not protected through SPZ or SMZ.
South-eastern Long-eared Bat <i>Nyctophilus corbeni</i>	Verified colonies	Portland-Horsham FMA	Apply a 100 m buffer around verified colonies.
Southern Myotis <i>Myotis macropus</i>	Verified breeding and roosting sites	North East FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 300 m radius over verified breeding and roosting sites.

Species Name	Value	Applicable FMAs	Management Actions
Spot-tailed Quoll <i>Dasyurus maculatus</i>	Verified breeding and roosting sites	Mid-Murray FMA	<p>Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified breeding and roosting populations.</p> <p>Within 200m of verified breeding or roosting site, exclude all potentially disturbing activities during breeding season. Breeding season is 1 October to 31 March. Apply a 100m Buffer around verified breeding and roosting trees.</p>
		East Gippsland	<p>Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 100 m radius over verified breeding and roosting caves, trees and mines and over-wintering sites</p>
	Verified records		<p>Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a 500 ha SPZ and a management area equivalent to 1000 ha SMZ for all verified Quoll records in State forest throughout Victoria, up to a target of 50 sites.</p>
	Preferred habitat features	Central Highlands FMAs	<p>Note. The location of the SPZ and SMZ will be based on protecting preferred habitat features for Quolls. Protect verified den and latrine sites by an exclusion area equivalent to at least a 200 m radius SPZ. The SPZ may include other detection sites, based on habitat quality and the proximity of existing protected habitat. Include detection sites outside the SPZ within the SMZ, unless there are compelling reasons for excluding them (e.g. a record in a clearly unsuitable location for habitat protection, proximity of existing protected habitat etc.). Prioritise site protection for Quolls according to habitat quality, current reservation status of the site, linkage to other reserves and the presence of complementary values. Records within 2 km of each other are generally regarded as the same animal unless proved otherwise. Exclude the use of threatening poisons within 1 km of a record less than 5 years old.</p>
	Detection sites outside the SPZ within the SMZ, unless there are compelling reasons for excluding them		
	Verified records		<p>Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of approximately 500 ha for each verified record. Include areas of undisturbed mature forest, riparian areas and rocky outcrops in the exclusion area where possible. In addition, apply a management area equivalent to a SMZ of approximately 1000 ha, contiguous to the exclusion area or existing SPZ. Protect verified den and latrine sites by at least a 200 m radius exclusion area equivalent to a SPZ where they are not otherwise protected.</p>
	Preferred habitat features	Gippsland FMAs North East FMAs	
	Verified den and latrine sites		<p>Note. The objectives of the SMZ will be to maintain</p>

Species Name	Value	Applicable FMAs	Management Actions
			<p>habitat for both arboreal and non-arboreal Spot-tail Quoll prey, while providing continuing opportunities for timber harvesting. Harvesting within the designated management area or SMZ may comprise selective harvesting operations over the entire area, or carefully sited and scheduled seed tree or clearfall harvesting, ensuring, in either case that important prey habitat components such as hollow-bearing trees are retained. Where clearfall or seed tree harvesting systems are proposed, harvesting operations may through time extend over the entire SMZ. However harvesting must be scheduled to ensure at least 500 ha of suitable prey habitat is available at any point in time (in addition to the SPZ). The adoption of harvesting strategies for SMZs should have regard to the assessed significance of the zone as Spot-tailed Quoll habitat, existing patterns of public land use and forest zoning, the silvicultural characteristics of forest types in the zone, the proportion of the zone which is unproductive for sawlog harvesting and the timber resource values of the productive areas.</p>
	Verified records		<p>Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a 500 ha SPZ and a management area equivalent to a 1000 ha SMZ for all verified Quoll records in State forest, up to a target of 10 sites. The location of the SPZ and SMZ will based on protecting preferred habitat features for Quolls. Protect verified den and latrine sites by an exclusion area equivalent to at least a 200 m radius SPZ.</p>
	Preferred habitat features	Portland-Horsham FMA	<p>Note. The SPZ may include other detection sites, based on habitat quality and the proximity of existing protected habitat. Include detection sites outside the SPZ within the SMZ, unless there are compelling reasons for excluding them (e.g. a record in a clearly unsuitable location for habitat protection, proximity of existing protected habitat etc.). Prioritise site protection for Quolls according to habitat quality, current reservation status of the site, linkage to other reserves and the presence of complementary values. Records within 2 km of each other are generally regarded as the same animal unless proved otherwise. Exclude the use of poisons such as 1080 within 2 km of Quoll records.</p>
	Verified den and latrine sites		

Species Name	Value	Applicable FMAs	Management Actions
	Preferred habitat features	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a 500 ha SPZ and a management area equivalent to a 1000 ha SMZ for all verified Quoll records in State forest up to a target number of sites (to be determined). The location of the SPZ and SMZ will be based on protecting preferred habitat features for Quolls. The SPZ will include known den and latrine sites (protected by at least a 200 m radius), and may include other detection sites, based on habitat quality and the proximity of existing protected habitat.
	Detection sites		Note. Detection sites not included in the SPZ will generally be included within the SMZ, unless there are compelling reasons for excluding them (e.g. a record in a clearly unsuitable location for habitat protection, proximity of existing protected habitat etc.). Site protection for Quolls will be prioritised according to habitat quality, current reservation status of the site, linkage to other reserves and the presence of complementary values. Records within 2 km of each other will be generally regarded as the same animal unless proved otherwise.
	Preferred habitat features	Otways FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of approximately 500 ha for each verified record. The location of the SPZ will be based on protecting preferred habitat features for Quolls. The SPZ will include known den and latrine sites (protected by at least a 200 m radius), and may include other detection sites, based on habitat quality and the proximity of existing protected habitat.
	Detection sites		Note. Site protection for Quolls will be prioritised according to habitat quality, current reservation status of the site, linkage to other reserves and the presence of complementary values. Records within 2 km of each other will be generally regarded as the same animal unless proved otherwise.
Spotted Tree Frog <i>Litoria spenceri</i>	Verified locations where frogs have been recorded and where suitable habitat has been mapped	Central Highlands FMAs	Until the species critical habitat is known, where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 300 m radius over verified locations where frogs have been recorded and where suitable habitat has been mapped (collectively referred to as 'stream habitat'). Also exclude new road construction and other potentially threatening activities (such as prescribed fire) from this area.

Species Name	Value	Applicable FMAs	Management Actions
			<p>For at least 1km upstream from verified and potential Spotted Tree Frog locations:</p> <ul style="list-style-type: none"> - apply buffer and filter widths set out in Table 10 to timber harvesting operations; and - do not construct new roads or stream crossings. <p>In the catchment upstream of a Spotted Tree Frog management zone:</p> <ul style="list-style-type: none"> - ensure any new road (and the fill slope toe of any new road) is located at least 50 m from any stream, unless site specific sediment management operations are put in place to prevent sediments entering perennial and ephemeral streams in the management zone - minimise construction of new roads and stream crossings, and ensure any constructed comply with the following prescriptions extracted from O'Shaughnessy and Associates (1997): <ul style="list-style-type: none"> • Ensure that creek culverts and bridges are built to be effective with 1:50 year flows. • Construct rock armoured overflow sections to allow overtopping without road washouts. • Install culverts of a minimum dimension of 375 mm along roads. • Install diversion culverts of a minimum dimension of 500 mm either side of stream crossings and construct crossings to ensure that road drainage at the crossing does not directly enter the stream. • Ensure that all culvert outlets have structures in place to spread and disperse culvert discharge using materials such as rocks, devices constructed from durable timber and logs. • Use excavators to prepare stream crossings for culvert placement. Ensure that material is pulled back on either side and not across the crossing. • Ensure that fill placement is accurate following culvert installation. • Use techniques to ensure silt runoff from surface flows, embankments and fills into drainage lines and or creeks is minimised. • When removing stream crossings associated with temporary roads: (a) extensively drain the road formation using substantial banks; and (b) remove the road bench where it connects to the permanent road network.

Species Name	Value	Applicable FMAs	Management Actions
			<p>- schedule timber harvesting operations, roading and burning to minimise the area disturbed at any one time</p> <hr/> <p>Until the species critical habitat is known, where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 300 m radius over all verified frog sites and mapped habitat areas. Designate a management area equivalent to an SMZ of a further 700m either side of the SPZ and 1 km upstream or to the ridge top (if the stream is less than 1 km long) along all streams that flow into the frog habitat. Exclude timber harvesting, new road construction and other potentially threatening activities (such as prescribed fire) from the exclusion area .</p>
	Verified locations where frogs have been recorded and where suitable habitat has been mapped	Gippsland FMAs North East FMAs	<p>Within the designated special management area or SMZ:</p> <ul style="list-style-type: none"> - do not construct new stream crossings - ensure any new road (and the fill slope toe of any new road) is located at least 50 m from any stream, unless site specific sediment management operations are put in place to prevent sediments entering perennial and ephemeral streams in the management zone - apply buffer and filter widths set out in Table 10. - give particular attention to suspension of logging and snig track drainage during wet weather - excavate 50 cm deep pits below the original track surface and immediately upslope of bars constructed to drain snig tracks and other tracks - ensure landings are constructed, or are drained to dispose of discharge at least 50m from the upslope edge of buffers and filters.
Square-tailed Kite <i>Lophoictinia isura</i>	Nest trees used within the last 5 years	Central Highlands FMAs North East FMAs Portland-Horsham FMA	Apply a 100 m buffer around nest trees used within the last 5 years. Exclude timber harvesting operations within 250 m of nest trees during breeding season.
	Verified nesting sites	Midlands FMA Gippsland FMAs Bendigo FMA East Gippsland FMA	<p>Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 250 m radius over verified nesting sites.</p> <p>Within 250m of verified nesting sites, avoid timber harvesting, road construction and burning during breeding season. Apply an exclusion area of 100m radius around verified nesting sites.</p>

Species Name	Value	Applicable FMAs	Management Actions
Squirrel Glider <i>Petaurus norfolcensis</i>	Verified populations		Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of approximately 500 ha of suitable habitat over verified populations.
	Key habitat elements such as nesting hollows, large trees and suitable understorey species	North East FMAs Portland-Horsham FMA Midlands FMA	Within the designated special management area or SMZ, implement prescriptions that address maintenance of key habitat elements such as nesting hollows, large trees and suitable understorey species (in particular Silver Wattle <i>Acacia dealbata</i>). Exclude timber harvesting from a core area of approximately 100 ha.
	Verified populations	Bendigo FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations. Within the designated special management area or SMZ, implement prescriptions that address maintenance of key habitat elements such as nesting hollows, large trees and suitable understorey species.
Strzelecki Burrowing Crayfish <i>Engaeus rostrigaleatus</i>	Verified sites	Gippsland FMAs	Develop management actions to protect Strzelecki Burrowing Crayfish habitat at verified sites in State forest.
Superb Parrot <i>Polytelis swainsonii</i>	Verified nest trees	Mid-Murray FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 250 m radius over verified nest trees. Within 250m of the verified nest tree, exclude all potentially disturbing activities during breeding season. Breeding season is 1 September to 31 December. Apply an exclusion area of 100m radius around verified nest trees.
Swamp Skink <i>Lissolepis coventryi</i>	Verified records	Portland-Horsham FMA	Minimise disturbance to damp areas and gully lines. Maintain dense vegetation within 250 m of verified records of this species.
Swift Parrot <i>Lathamus discolor</i>	Vicinity of Swift Parrot flocks	Midlands FMA Portland-Horsham FMA	Avoid disturbance of Swift Parrot flocks by postponing timber harvesting operations that may affect them in their vicinity.
	Verified resident populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ for verified resident populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations or prescribed burning activities.

Species Name	Value	Applicable FMAs	Management Actions
Trout Cod <i>Maccullochella macquariensis</i>	Verified viable Trout Cod populations	North East FMAs Mid-Murray FMA	Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately managed and protected when timber harvesting operations are planned in rivers and catchments upstream of verified viable Trout Cod populations.
Turquoise Parrot <i>Neophema Pulchella</i>	Stumps identified as nest sites	North East FMAs	Protect stumps identified as nest sites from timber harvesting operations .
Variiegated Pygmy Perch <i>Nannoperca variegata</i>	Verified populations	Portland-Horsham FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ extending 40 m from each bank for 40 m upstream and 40 m downstream of verified populations. Disturbance that could impact on water quality must be avoided within exclusion area .
Warragul Burrowing Crayfish <i>Engaeus sternalis</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
White-bellied Sea-eagle <i>Haliaeetus leucogaster</i>	Verified nesting sites	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 500 m radius over verified nesting sites. Within 500m of verified nesting sites, avoid timber harvesting, road construction and burning during breeding season. Apply and exclusion area of 100m radius around verified nesting sites.
	Verified resident populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified resident populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
	Verified nesting sites	Portland-Horsham FMA East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 250 m radius over each verified nesting site. Within 250m of verified nesting site, avoid timber harvesting, road construction and burning during breeding season. Apply and exclusion area of 100m radius around verified nesting sites.

Species Name	Value	Applicable FMAs	Management Actions
	Verified nesting populations	Mid-Murray FMA	<p>Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 250 m radius over verified nesting populations.</p> <p>Within 20m of verified nesting population, avoid timber harvesting, road construction and burning during breeding season. Breeding season is 1 May to 31 December. Apply and exclusion area of 100m radius around verified nesting sites.</p>
White-footed Dunnart <i>Sminthopsis leucopus</i>	Verified sites	Portland-Horsham FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of approximately 20 ha of suitable habitat over verified sites.
Woodland Blind Snake <i>Anilius proximus</i>	Verified sites	North East FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of approximately 50 ha over each verified site, where practicable incorporating the detection site. Review the strategy when 20 SPZ are established.
	Verified populations	Mid-Murray FMA	<p>Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of approximately 50 ha over verified populations, where practicable incorporating the detection site.</p> <p>Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations.</p>
	Verified populations	Midlands FMA	<p>Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations.</p> <p>Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations.</p>
Yellow-bellied Glider <i>Petaurus australis</i>	Den trees and associated flight paths, and feed trees	Portland-Horsham FMA	Retain all identified Yellow-Bellied Glider den trees and associated flight paths, and feed trees. (Yellow-Bellied Glider feed trees are recognised by “V – notch” incisions into the sapwood and are found in a range of species including <i>Eucalyptus viminalis</i> , <i>E. ovata</i> , <i>E. baxteri</i> , <i>E. obliqua</i> and <i>E. willisii</i> .)
	Relative abundance (More than 5 per Spotlight Kilometre)	East Gippsland FMA Otways FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of approximately 100 ha of suitable habitat where verified records report a relative abundance of more than 5 individuals per spotlight kilometre (equivalent to more than 0.2 individuals per hectare or more than 7 individuals per hour of spotlighting), or where

Species Name	Value	Applicable FMAs	Management Actions
			substantial populations are located in isolated or unusual habitat. Note: Assumed rate of spotlighting per kilometer is 10mins per 100m and visible range either side of transect is 150m, equating to assumed minimum survey area of 30 hectares.
Yellow-bellied Sheathtail Bat <i>Saccolaimus flaviventris</i>	Verified roost sites with patterns of regular seasonal use	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 100 m radius over verified roost sites with patterns of regular seasonal use. Establish a further management area equivalent to a SMZ of 100 m radius around the SPZ for verified sites of active colonies.
	Verified sites of active colonies		Schedule timber harvesting, roading and fuel reduction burning operations within the management area to minimise disturbance to colonies.
	Older forest over sites where more than 10 individuals are captured in one trapping session	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of approximately 100 ha of older forest over sites where more than 10 individuals are captured in one trapping session.

Table 14 Rare or threatened flora prescriptions

Species Name	Value	Applicable FMAs	Management Actions
Alpine Bush-pea <i>Pultenaea fasciculata</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Alpine Buttons <i>Leptorhynchos squamatus subsp. Alpinus</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Alpine Colobanth <i>Colobanthus affinis</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Alpine Crane's-bill <i>Geranium brevicaule</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Alpine Fen-sedge <i>Carex hypandra</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Alpine Finger-fern <i>Notogrammitis crassior</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Alpine Groundsel <i>Senecio pectitus var. major</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Alpine Marianth <i>Rhytidosporum inconspicuum</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .

Species Name	Value	Applicable FMAs	Management Actions
Alpine Pennywort <i>Schizeilema fragoseum</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Alpine Phebalium <i>Phebalium squamulosum subsp. alpinum</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Alpine Rush <i>Juncus brevibracteus</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Alpine Stackhousia <i>Stackhousia pulviris</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Alpine Wattle <i>Acacia alpi</i>	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Anglesea Grevillea <i>Grevillea infecunda</i>	Verified occurrences	Otways FMA	Manage verified occurrences in consultation with the Department unless already protected. Implement hygiene precautions to control the potential introduction and / or spread of <i>Phytophthora cinnamomic</i> .
Aniseed Boronia <i>Boronia galbraithiae</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ over each verified population.
Antelope Greenhood <i>Pterostylis laxa</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Archer's Sedge <i>Carex archeri</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the

Species Name	Value	Applicable FMAs	Management Actions
			Department to ensure the species is adequately protected during timber harvesting operations .
Ausfeld's Wattle <i>Acacia ausfeldii</i>	Verified populations	Bendigo FMA	Minimise disturbance from road management activities.
Austral Crane's-bill <i>Geranium solanderi</i> <i>var. solanderi s.s.</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Austral Moonwort <i>Botrychium australe</i>	Verified populations	North East FMAs East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Austral Toad-flax <i>Thesium australe</i>	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ over each verified population.
	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Austral Trefoil <i>Lotus australis var. australis</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Australian Anchor Plant <i>Discaria pubescens</i>	Verified populations	North East FMA East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200m over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
	Verified populations	Gippsland	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to an SPZ over each verified population.
Bantam Bush-pea <i>Pulteeea parrisiae</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .

Species Name	Value	Applicable FMAs	Management Actions
Basalt Peppercress <i>Lepidium hyssopifolium</i> s.s.	Verified populations	Midlands FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to an SPZ over each verified population. Conduct pre-harvest surveys for the species in the vicinity of Bolworrah and Trentham.
Bassian Pomaderris <i>Pomaderris oraria</i> subsp. <i>oraria</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Baw Baw Sally <i>Eucalyptus pauciflora</i> subsp. <i>acerina</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Bead Glasswort <i>Halosarcia flabelliformis</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Beechworth Silver Stringybark <i>Eucalyptus cinerea</i> ssp. <i>cinerea</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Ben Major Grevillea <i>Grevillea floripendula</i>	Verified populations	Midlands FMA	Avoid disturbance to verified populations within the SMZ and GMZ.
Bent-leaf Wattle <i>Acacia flexifolia</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Betka Bottlebrush <i>Callistemon kenmorrisonii</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Binung <i>Christella dentata</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Birch Pomaderris <i>Pomaderris betuli</i> ssp. <i>Betuli</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.

Species Name	Value	Applicable FMAs	Management Actions
Black Oliveberry <i>Elaeocarpus holopetalus</i>	Verified populations	Portland-Horsham FMA	Manage verified populations in consultation with the Department unless already protected.
Black Stem <i>Adiantum formosum</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Blackfellow's Hemp <i>Androcalva rossii</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Blotched Hyacinth-orchid <i>Dipodium variegatum</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Blue-leaf Tussock-grass <i>Poa sieberiana</i> var. <i>cyanophylla</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Blue-tongue Greenhood <i>Pterostylis oreophila</i>	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to an SPZ of 200 m radius over each verified population.
Blunt Sandalwood <i>Santalum obtusifolium</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Blunt-leaf Pomaderris <i>Pomaderris helianthemifolia</i>	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Bog Saw-sedge <i>Gahnia subaequiglumis</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .

Species Name	Value	Applicable FMAs	Management Actions
Bogong Daisy-bush <i>Olearia frostii</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Bonnet Orchid <i>Cryptostylis erecta</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Branching Raspwort <i>Gonocarpus micranthus</i> ssp. <i>ramosissimus</i>	Verified populations	North East FMAs	Protect verified populations from disturbance where possible.
Bristly Greenhood <i>Pterostylis setifera</i>	Verified populations	Bendigo FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Bristly Helmet-orchid <i>Corysanthes hispidus</i>	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Brittle Bladder-fern <i>Cystopteris tasmanica</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Broad-leaf Hop-bush <i>Dodonaea rhombifolia</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Broad-lip Diuris <i>Diuris X palachila</i>	Verified populations	Bendigo FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Broad-lip Leek-orchid <i>Prasophyllum patens</i> s.l.	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the

Species Name	Value	Applicable FMAs	Management Actions
			Department to ensure the species is adequately protected during timber harvesting operations .
Brooker's Gum <i>Eucalyptus brookeriana</i>	Verified occurrences	Otways FMA	Manage verified occurrences in consultation with the Department unless already protected. Where possible, reseed or replant all logging coupes that contained <i>E. brookeriana</i> with seed collected from the coupe to ensure re-establishment of this species on the site in a similar proportion to that found prior to harvesting as shown on the coupe plan.
Broom Bitter-pea <i>Daviesia genistifolia</i> s.s.	Verified populations	Midlands FMA	Avoid disturbance to verified populations within the SMZ and GMZ.
Buff Hazelwood <i>Symplocos thwaitesii</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Buffalo Sallee <i>Eucalyptus mitchelliana</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Buloke Mistletoe <i>Amyema linophylla</i> ssp. <i>orientale</i>	Verified populations	Mid-Murray FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 100 m radius over verified populations that are not already protected. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Buloke <i>Allocasuarina luehmannii</i>	Verified populations	Bendigo FMA	Minimise disturbance from road management activities.
Button Rush <i>Lipocarpa microcephala</i>	Verified populations	Mid-Murray FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 100 m radius over verified populations that are not already protected. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Buxton Gum <i>Eucalyptus crenulata</i>	Verified populations	Central Highlands FMAs	Protect verified populations from disturbance where possible.
Cabbage Fan-palm <i>Livistona australis</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the

Species Name	Value	Applicable FMAs	Management Actions
			Department to ensure the species is adequately protected during timber harvesting operations .
Candy Spider-orchid <i>Caladenia versicolor</i>	Verified populations	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Cane Spear-grass <i>Austrostipa breviglumis</i>	Verified populations	Midlands FMA	Avoid disturbance to verified populations within the SMZ and GMZ.
	Verified populations	Bendigo FMA	Minimise disturbance from road management activities.
Castlemaine Spider-orchid <i>Caladenia clavescens</i>	Verified populations	Bendigo FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Catkin Wattle <i>Acacia dallachiana</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Chinese Lespedeza <i>Lespedeza juncea subsp. sericea</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Cliff Cudweed <i>Euchiton umbricola</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Clover Glycine <i>Glycine latrobeana</i>	Verified populations	Midlands FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ over each verified population based on field inspection. Review this strategy when 10 sites and 1000 individuals are protected in State forest.

Species Name	Value	Applicable FMAs	Management Actions
	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
	Verified populations	Portland-Horsham FMA Bendigo FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations based on field inspection. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Coast Bitter-bush <i>Adriana quadripartita</i> (<i>pubescent form</i>)	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Coast Dandelion <i>Taraxacum cygnorum</i>	Verified populations	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Coast Grey-box <i>Eucalyptus bosistoana</i>	Coast Grey Box stands	Gippsland FMAs	Exclude timber harvesting from Coast Grey Box stands, except for when it is undertaken to facilitate propagation or regeneration of this species.
Coast Ixodia <i>Coast Ixodia achillaeoides subsp. arenicola</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Coastal Greenhood <i>Pterostylis alveata</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Cobberas Grevillea <i>Grevillea brevifolia</i>	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Cobra Greenhood <i>Pterostylis grandiflora</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .

Species Name	Value	Applicable FMAs	Management Actions
Colourful Spider-orchid <i>Caladenia colorata</i>	Verified populations	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Colquhoun Grevillea <i>Grevillea celata</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Comb Wheat-grass <i>Australopyrum retrofractum</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Common Joyweed <i>Alternanthera nodiflora</i>	Verified populations	Mid-Murray FMA	Avoid disturbance to verified populations.
Common Spider-orchid <i>Caladenia patersonii</i> s.l.	Verified populations	Midlands FMA	Avoid disturbance to verified populations within the SMZ and GMZ.
Common Spleenwort <i>Asplenium trichomanes</i>	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Concave Pomaderris <i>Pomaderris subplicata</i>	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Creeping Grevillea <i>Grevillea repens</i>	Verified occurrences	Central Highlands FMAs	Consult with a botanist to determine if management actions are required to protect verified occurrences in the vicinity of prescribed burning activities.
	Verified populations	Midlands FMA	Avoid disturbance to verified populations within the SMZ and GMZ.
Crested Hair-grass <i>Koeleria macrantha</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the

Species Name	Value	Applicable FMAs	Management Actions
			Department to ensure the species is adequately protected during timber harvesting operations .
Crested Water-milfoil <i>Myriophyllum lophatum</i>	Verified populations	North East FMAs	Protect verified populations from disturbance where possible.
Crimson Grevillea <i>Grevillea polybractea</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Crimson Spider Orchid <i>Caladenia concolor</i>	Verified populations	Central Highlands FMAs	Protect verified populations from disturbance where possible. Consult with a botanist to determine if management actions are required to protect verified occurrences in the vicinity of prescribed burning activities.
	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Cryptic Heath <i>Epacris celata</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Cupped Bush-pea <i>Pultenaea vrolandii</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Curly Sedge <i>Carex tasmanica</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Currawang <i>Acacia doratoxylon</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Dark Wire-grass <i>Aristida calycina</i> <i>var. calycina</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the

Species Name	Value	Applicable FMAs	Management Actions
			Department to ensure the species is adequately protected during timber harvesting operations .
Deane's wattle <i>Acacia deanei</i> <i>subsp. deanei</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Delicate Bush-pea <i>Pultenaea tenella</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Delicate Cranesbill <i>Geranium sp. 6</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Delicate Love-grass <i>Eragrostis tenellula</i>	Verified populations	Mid-Murray FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 100 m radius over verified populations that are not already protected. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Delicate New Holland Daisy <i>Vittadinia tenuissima</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Dense Leek-orchid <i>Prasophyllum spicatum</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Dense Mint-bush <i>Prostanthera decussata</i>	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Dergholm Guinea-flower <i>Hibbertia humifusa</i> <i>subsp. debilis</i>	Verified populations	Portland-Horsham FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the

Species Name	Value	Applicable FMAs	Management Actions
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Devious Bent-grass <i>Deyeuxia decipiens</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Dookie Daisy <i>Brachyscome gracilis</i> ssp. <i>gracilis</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Downy Star-Bush <i>Asterolasia phebaloides</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Dusky Bush-pea <i>Pultenaea polifolia</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Dwarf Buttercup <i>Ranunculus millanii</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Dwarf Milkwort <i>Polygala japonica</i>	Verified populations	Gippsland FMAs North East FMAs East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Dwarf Swainson-pea <i>Swainsona phacoides</i>	Verified populations	Mid-Murray FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 100 m radius over verified populations that are not already protected. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Eastern Bitter-bush <i>Adriana tomentosa</i> var. <i>Tomentosa</i> (glabrous and pubescent form)	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .

Species Name	Value	Applicable FMAs	Management Actions
Eastern Pomaderris <i>Pomaderris discolor</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Eichler's Buttercup <i>Ranunculus eichlerianus</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Elegant Spider-orchid <i>Caladenia formosa</i>	Verified populations	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Elusive Cress <i>Irenepharsus magicus</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Emerald-lip Greenhood <i>Pterostylis smaragdyna</i>	Verified populations	Bendigo FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Enfield Grevillea <i>Grevillia bedgoodiana</i>	Verified populations	Midlands FMA	Avoid disturbance to verified populations within the SMZ and GMZ.
Erect Midge-orchid <i>Corunastylis arrecta</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Errinundra Pepper <i>Tasmannia xerophila subsp. robusta</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Fairy Bluebell <i>Wahlenbergia densifolia</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to an SPZ over verified populations.

Species Name	Value	Applicable FMAs	Management Actions
Fairy Lanterns <i>Thismia rodwayi</i>	Verified sites	Central Highlands FMAs	Apply a 20 m buffer around verified sites. On advice from the Department , buffers may not be required if locally abundant in nearby parks and reserves or SPZ.
	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Fairy Orchid <i>Caladenia alata</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Ferny Small-flower Buttercup <i>Ranunculus pumilio</i> <i>var. politus</i>	Verified populations	North East FMAs	Protect verified populations from disturbance where possible.
Filmy Maidenhair <i>Adiantum diaphanum</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ over each verified population.
Fine Bent-grass <i>Deyeuxia boormanii</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Fir Clubmoss <i>Huperzia australiana</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Fisch's Greenhood <i>Pterostylis fischii</i>	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Flat-leaf Bush-pea <i>Pultenaea platyphylla</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Floating Bur-reed <i>Sparganium subglobosum</i>	Verified populations	North East FMAs	Protect verified populations from disturbance where possible.

Species Name	Value	Applicable FMAs	Management Actions
Floodplain Rustyhood <i>Pterostylis cheraphila</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Fog Club-sedge <i>Isolepis montivaga</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Forde Poa <i>Poa fordeana</i>	Verified populations	Mid-Murray FMA	Avoid disturbance to verified populations.
Forest Weft-moss <i>Thuidium laeviusculum s.s.</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Forrester's Bottlebrush <i>Callistemon forresterae</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Fragrant Leek-orchid <i>Prasophyllum suaveolens</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Fragrant Saltbush <i>Rhagodia parabolica</i>	Verified populations	Midlands FMA	Avoid disturbance to verified populations within the SMZ and GMZ.
Fringed Rice-flower <i>Pimelea ligustrina subsp. ciliata</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Genoa River Correa <i>Correa lawrencea var. genoensis</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Gippsland Hemp Bush <i>Gynatrix macrophylla</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.

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	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Gippsland Lakes Peppermint <i>Eucalyptus arenicola</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Glandular Early Nancy <i>Wurmbea biglandulosa subsp. biglandulosa</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Globe-hood Sun-orchid <i>Thelymitra X chasmogama</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Golden Cowslips <i>Diuris behrii</i>	Verified populations	Bendigo FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Golden Grevillea <i>Grevillea chrysophaea</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Golden Moths <i>Diuris lanceolata s.l.</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ over each verified population.
Golden Pomaderris <i>Pomaderris aurea</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Goldfield Boronia <i>Boronia anemonifolia subsp. Aurifodina</i>	Verified populations	Bendigo FMA	Minimise disturbance from road management activities.

Species Name	Value	Applicable FMAs	Management Actions
Gorae Leek-orchid <i>Prasophyllum diversiflorum</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Graceful Sun-orchid <i>Thelymitra simulata</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Grampians Bitter-pea <i>Daviesia laevis</i>	Verified populations	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Grampians Pincushion-lily <i>Borya mirabilis</i>	Verified populations	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Grampians Rice-flower <i>Pimelea pagophila</i>	Verified populations	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Grampians Zieria <i>Zieria oreocenana</i>	Verified populations	Otways FMA	Manage verified occurrences in consultation with the Department unless already protected.
Granite Greenhood <i>Pterostylis tunstallii</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Green Leek-orchid <i>Prasophyllum lindleyanum</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Green Wattle <i>Acacia irrorata</i> <i>subsp. irrorata</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Greenish-flower Vanilla-lily <i>Arthropodium sp. 2</i> (greenish flowers)	Verified populations	North East FMAs	Protect verified populations from disturbance where possible.
Green-striped Greenhood <i>Pterostylis chlorogramma</i>	Verified populations	Gippsland FMAs Portland-Horsham FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to an SPZ over each verified population.

Species Name	Value	Applicable FMAs	Management Actions
Green-Top Sedge <i>Carex chlorantha</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Grey Beard-heath <i>Leucopogon attenuatus</i>	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Grey Rice-flower <i>Pimelea treyvaudii</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Grey Scentbark <i>Eucalyptus ignorabilis s.s.</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius around each verified population.
Gully Grevillea <i>Grevillea barklyana</i>	Mature individuals	Central Highlands FMAs	Protect mature individuals from disturbance where possible.
Gunn's Alpine Buttercup <i>Ranunculus gunnianus</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Hairy Eyebright <i>Euphrasia lasianthera</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Hairy Hop-bush <i>Dodonaea boroniifolia</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Hairy-pod Wattle <i>Acacia glandulicarpa</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Hard-head Bush-pea	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the

Species Name	Value	Applicable FMAs	Management Actions
<i>Pultenaea capitellata</i>			Department to ensure the species is adequately protected during timber harvesting operations .
Heath Platysace <i>Platysace ericoides</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Highland Bush-pea <i>Pultenaea williamsonii</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Honey Hood-orchid <i>Caladenia hildae</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Jerry-jerry <i>Ammannia multiflora</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Jumping-jack Wattle <i>Acacia enterocarpa</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Kerrawang <i>Commersonia dasyphylla</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
King Greenhood <i>Pterostylis baptistii</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Kydra Dampiera <i>Dampiera fusca</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Lady's Mantle <i>Alchemilla xanthochlora</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the

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			Department to ensure the species is adequately protected during timber harvesting operations .
Lanky Buttons <i>Leptorhynchus elongatus</i>	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Large Rustyhood <i>Pterostylis maxima</i>	Verified populations	Bendigo FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Large Tick-trefoil <i>Desmodium brachypodium</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Large Velvet Wallaby-grass <i>Austrodanthonia pilosa</i> var. <i>paleacea</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Large-leaf Ray-flower <i>Cyphanthera anthocercidea</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Leafless Pink-bells <i>Tetralthea subaphylla</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Leafless Tongue-orchid <i>Cryptostylis hunteriana</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .

Species Name	Value	Applicable FMAs	Management Actions
Leafy Greenhood <i>Pterostylis cucullata</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to an SPZ over each verified population.
	Verified populations	North East FMAs Portland-Horsham FMA East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the population is adequately protected during timber harvesting operations .
Leafy Templetonia <i>Templetonia stenophylla</i>	Verified populations	Midlands FMA	Avoid disturbance to verified populations within the SMZ and GMZ.
Leafy Wallaby-grass <i>Austrodanthonia bipartita</i> s.s.	Verified populations	Bendigo FMA	Minimise disturbance from road management activities.
Lilac Berry <i>Trochocarpa clarkei</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to an SPZ over each verified population.
	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Lilac Bitter-cress <i>Cardamine lilacina</i> s.s.	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Limestone Blue Wattle <i>Acacia caerulescens</i>	Verified populations	Gippsland FMAs East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Limestone Pomaderris <i>Pomaderris oraria</i> subsp. <i>calvicola</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Limestone Spider-orchid <i>Caladenia calvicola</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.

Species Name	Value	Applicable FMAs	Management Actions
Little Kooka Wattle <i>Acacia nanopravissima</i> ms.	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Long Rope-rush <i>Calorophus elongatus</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Long-flower Beard-heath <i>Leucopogon juniperinus</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
	Verified populations	North East FMAs	Protect verified populations from disturbance where possible.
Long-tail Greenhood <i>Pterostylis woollsii</i>	Verified populations	Bendigo FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Long-tongue Summer Greenhood <i>Pterostylis aestiva</i>	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Low Bush-pea <i>Pultenaea subspicata</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Lowan Phebalium <i>Phebalium lowanense</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Lowly Greenhood <i>Pterostylis despectans</i>	Verified populations	Bendigo FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting

Species Name	Value	Applicable FMAs	Management Actions
			operations. Within the SMZ, timber harvesting activities are limited to thinning operations conducted in accordance with plans developed for the specific purpose of aiding the survival of Lowly Greenhood.
Maiden's Wattle <i>Acacia maidenii</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Mallee Ash <i>Eucalyptus kybeanensis</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Maroon Leek-orchid <i>Prasophyllum frenchii</i>	Verified occurrences	Portland-Horsham FMA Otways FMA	Manage verified occurrences in consultation with the Department unless already protected.
	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Marsh Daisy <i>Brachyscome radicans</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Marsh Greenhood <i>Pterstylis uliginosa</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Marsh Leek-orchid <i>Prasophyllum niphopedium</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .

Species Name	Value	Applicable FMAs	Management Actions
Marsh Sun-orchid <i>Thelymitra longiloba</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Mat Cudweed <i>Euchiton traversii</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Matted Flax-lily <i>Dianella amoena</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Matted Parrot-pea <i>Dillwynia prostrata</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Mclvor Spider-orchid <i>Caladenia audasii</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Mellblom's Spider-orchid <i>Caladenia hastata</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Metallic Sun Orchid <i>Thelymitra epipactoides</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to an SPZ over each verified population.
	Verified occurrences	Portland-Horsham FMA Otways FMA	Manage verified occurrences in consultation with the Department unless already protected.
Monkey Mint-bush <i>Prostanthera walteri</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Mossy Knawel <i>Scleranthus singuliflorus</i>	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .

Species Name	Value	Applicable FMAs	Management Actions
Mount Cole Grevillea <i>Grevillea montis- cole</i>	Verified populations	Midlands FMA	Avoid disturbance to verified populations within the SMZ and GMZ.
Mountain Aciphyll <i>Aciphylla simplicifolia</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Mountain Dandelion <i>Taraxacum aristum</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Mountain Kangaroo Apple <i>Solanum linearifolium</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Mountain Leafless Bossiaea <i>Bossiaea bracteosa</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Mountain Leek- orchid <i>Prasophyllum aff. montanum B</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Mountain Mat-rush <i>Lomandra oreophila</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Mountain Swainson-pea <i>Swainsona recta</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Mountain Wheat- grass <i>Australopyrum velutinum</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .

Species Name	Value	Applicable FMAs	Management Actions
Mueller Daisy <i>Brachyscome muelleroides</i>	Verified populations	Mid-Murray FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 100 m radius over verified populations that are not already protected. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Mueller's Bent <i>Agrostis muelleriana</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Mugga <i>Eucalyptus sideroxylon subsp. sideroxylon</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Naked Sun-orchid <i>Thelymitra circumsepta</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Narrow Goodenia <i>Goodenia macbarronii</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to an SPZ over each verified population.
Narrow-leaf Star-hair <i>Astrotricha linearis</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Native Quince <i>Alectryon subcinereus</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Native wintercress <i>Barbarea grayi</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.

Species Name	Value	Applicable FMAs	Management Actions
Verified populations	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Netted Daisy-bush <i>Olearia speciosa</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Omeo Gum <i>Eucalyptus neglecta</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Orange-blossom Orchid <i>Sarcophilus falcatus</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Orange-tip Finger-orchid <i>Caladenia aurantiaca</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Ornate Pink-fingers <i>Caladenia ornata</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Outcrop Guinea-flower <i>Hibbertia hermanniifolia</i> <i>subsp. recondita</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Oval-leaf Grevillea <i>Grevillea miqueliana</i> ssp. <i>Miquelia</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the

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Ovens Everlasting <i>Ozothamnus stirlingii</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Pale Flax-lily <i>Dianella longifolia</i> var. <i>longifolia</i> s.l.	Verified populations	Bendigo FMA	Minimise disturbance from road management activities.
Pink Mountain-c Correa <i>Correa lawrenceana</i> var. <i>cordifolia</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Pinkwood <i>Beyeria lanceolata</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Pinnate Goodenia <i>Goodenia macmillanii</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Plains Joyweed <i>Alternanthera</i> sp. 1 (Plains)	Verified populations	Bendigo FMA	Minimise disturbance from road management activities.
Pomonal Leek-orchid <i>Prasophyllum subbisectum</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Poverty Wattle <i>Acacia dawsonii</i>	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Prawn Greenhood <i>Pterostylis pedoglossa</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .

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Prickly Tree-fern <i>Cyathea leichhardtiana</i>	Verified populations	Gippsland FMAs East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Privet Pomaderris <i>Pomaderris ligustrina subsp. ligustrina</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Prostrate Cone-bush <i>Isopogon prostratus</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to an SPZ over each verified population based on field inspection.
Purple Blown-grass <i>Lachnagrostis punicea subsp. punicea</i>	Verified populations	Bendigo FMA	Minimise disturbance from road management activities.
Purple Diuris <i>Diuris punctata var. punctata</i>	Verified populations	Midlands FMA Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to an SPZ over each verified population based on field inspection.
	Verified populations	North East FMAs East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Purple Eyebright <i>Euphrasia collina subsp. muelleri</i>	Verified populations	Gippsland FMAs North East FMAs Portland-Horsham FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
	Verified populations	Otways FMA	Manage verified occurrences in consultation with the Department unless already protected.
Ridged Water-milfoil <i>Myriophyllum porcatum</i>	Verified populations	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Rigid Spider-orchid <i>Caladenia tensa</i>	Verified populations	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
River Leafless Bossiaea <i>Bossiaea riparia</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the

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River Swamp Wallaby-grass <i>Amphibromus fluitans</i>	Verified populations	Mid-Murray FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 100 m radius over verified populations that are not already protected. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Rock daisy <i>Brachyscome petrophila</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Rock Grevillea <i>Grevillea willisii</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Rock Orchid <i>Thelychiton speciosus</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Rock Tussock-grass <i>Poa petrophila</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Rough Eyebright <i>Euphrasia scabra</i>	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ over each verified population.
	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Rough-grain Love-grass <i>Eragrostis trachycarpa</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the

Species Name	Value	Applicable FMAs	Management Actions
			Department to ensure the species is adequately protected during timber harvesting operations .
Royal Grevillea <i>Grevillea victoriae</i> s.s.	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Rusty Velvet-bush <i>Lasiopetalum ferrugineum</i> var. <i>ferrugineum</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Sand Rush <i>Juncus psammophilus</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
	Verified populations	Bendigo FMA	Minimise disturbance from road management activities.
Sandfly Zieria <i>Zieria smithii</i> subsp. <i>smithii</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Sandpaper Fig <i>Ficus coronata</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Scaly Greenhood <i>Pterostylis hamata</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Scented Bush-pea <i>Pultenaea graveolens</i>	Verified populations	Midlands FMA	Avoid disturbance to verified populations within the SMZ and GMZ.
Scented Daisy-bush <i>Olearia tenuifolia</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.

Species Name	Value	Applicable FMAs	Management Actions
Selma Saddle Grevillea <i>Grevillea miqueliana</i> subsp. <i>cincta</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Shingle Fireweed <i>Senecio diaschides</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Shining Anchor Plant <i>Discaria nitida</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to an SPZ over each verified population.
Shiny Leionema <i>Leionema lamprophyllum</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Short Spider-orchid <i>Caladenia brachyscapa</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Short Water-starwort <i>Callitriche brachycarpa</i>	Verified occurrences	Otways FMA	Manage verified occurrences in consultation with the Department unless already protected.
Short-awned Wheat-grass <i>Anthosachne kingiana</i> subsp. <i>multiflora</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
	Verified populations	Mid-Murray FMA	Avoid disturbance to verified populations.
Short-bristle Wallaby-grass <i>Rytidosperma setaceum</i> var. <i>brevisetum</i>	Verified populations	Bendigo FMA	Minimise disturbance from road management activities.
Showy Willow-herb <i>Epilobium pallidiflorum</i>	Verified occurrences	Otways FMA	Manage verified occurrences in consultation with the Department unless already protected.

Species Name	Value	Applicable FMAs	Management Actions
Sickle-leaf Rush <i>Juncus falcatus</i> <i>subsp. falcatus</i> <i>subsp. falcatus</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Sikh's Whiskers <i>Pterostylis boormanii</i>	Verified populations	Bendigo FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Silky Glycine <i>Glycine canescens</i>	Verified populations	Bendigo FMA	Minimise disturbance from road management activities.
Silver Stringybark <i>Eucalyptus alligatrix</i> <i>subsp. alligatrix</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Silver Tea-tree <i>Leptospermum multicaule</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Skeleton Vine <i>Clematis leptophylla</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Slender Bitter- cress <i>Cardamine tenuifolia</i>	Verified populations	North East FMAs	Protect verified populations from disturbance where possible.
Slender Club- sedge <i>Isolepis congrua</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Slender Darling- pea <i>Swainsona murrayana</i>	Verified populations	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Slender Gingidia <i>Gingidia harveyana</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the

Species Name	Value	Applicable FMAs	Management Actions
			Department to ensure the species is adequately protected during timber harvesting operations .
Slender Leek-orchid <i>Prasophyllum parviflorum</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Slender Love-grass <i>Eragrostis exigua</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Slender Mud-grass <i>Pseudoraphis paradoxa</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Slender Parrot-pea <i>Almaleea capitata</i>	Verified populations	Gippsland FMAs North East FMAs East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Slender Pomaderris <i>Pomaderris phyllicifolia</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Slender Ruddyhood <i>Pterostylis aciculiformis</i>	Verified populations	North East FMAs	Protect verified populations from disturbance where possible.
Slender Saw-sedge <i>Gahnia microstachya</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Slender Sword-sedge <i>Lepidosperma gunnii</i>	Verified populations	North East FMAs	Protect verified populations from disturbance where possible.

Species Name	Value	Applicable FMAs	Management Actions
Slender Tick-trefoil <i>Desmodium varians</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
	Verified populations	North East FMAs	Protect verified populations from disturbance where possible.
	Verified populations	Bendigo FMA	Minimise disturbance from road management activities.
	Verified populations	Mid-Murray FMA	Avoid disturbance to verified populations.
Slender Tree-fern <i>Cyathea cunninghamii</i>	Verified populations	Gippsland FMAs East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
	Verified populations	Otways FMA	Manage verified occurrences in consultation with the Department unless already protected.
Slender Violet-bush <i>Hybanthus monopetalus</i>	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Small Chocolate-lily <i>Arthropodium sp. 3 (aff. strictum)</i>	Verified populations	North East FMAs	Protect verified populations from disturbance where possible.
Small Milkwort <i>Comesperma polygaloides</i>	Verified sites	Bendigo FMA	Prevent use of machinery or vehicles on verified sites when soils are wet or such use will damage the underground parts of the plants.
Small Scurf-pea <i>Cullen parvum</i>	Verified populations	Mid-Murray FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 100 m radius over verified populations that are not already protected. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Small-leaf Bush-pea <i>Pultenaea foliolosa</i>	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .

Species Name	Value	Applicable FMAs	Management Actions
Smooth Wallaby-grass <i>Rytidosperma laeve</i>	Verified populations	Mid-Murray FMA	Avoid disturbance to verified populations.
Snow Aciphyll <i>Aciphylla glacialis</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Snow Beard-heath <i>Leucopogon montanus</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Snow Coprosma <i>Coprosma nivalis</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Snow Fescue <i>Hookerochloa eriopoda</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Snow Pennywort <i>Diplaspis nivis</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Snow Wallaby-grass <i>Rytidosperma nivicola</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Snowdrop Wood-sorrel <i>Oxalis magellanica</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Snowy River Wattle <i>Acacia boormanii</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .

Species Name	Value	Applicable FMAs	Management Actions
Soft Ledge Grass <i>Poa hothamensis</i> <i>var. Parviflora</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Southern Pipewort <i>Eriocaulon australasicum</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Spicy Everlasting <i>Ozothamnus argophyllus</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Spinning Gum <i>Eucalyptus perriniana</i>	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Spiral Sun-orchid <i>Thelymitra matthewsii</i>	Verified populations	Gippsland FMAs Portland-Horsham FMA East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Sprawling Cassia <i>Senna aciphylla</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Spreading Clubmoss <i>Lycopodium scariosum</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Spreading Eutaxia <i>Eutaxia microphylla</i> <i>var. diffusa</i>	Verified populations	Midlands FMA	Avoid disturbance to verified populations within the SMZ and GMZ.
Spreading Knawel <i>Scleranthus fasciculatus</i>	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .

Species Name	Value	Applicable FMAs	Management Actions
Squat Picris <i>Picris squarrosa</i>	Verified populations	Midlands FMA	Avoid disturbance to verified populations within the SMZ and GMZ.
Stalked Adder's-tongue <i>Ophioglossum reticulatum</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Stalked Brooklime <i>Gratiola pedunculata</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Stalked Guinea-flower <i>Hibbertia pedunculata s.l.</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Star Cucumber <i>Sicyos australis</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Sticky Wattle <i>Acacia howittii</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Stiff Groundsel <i>Senecio behrianus</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Stony Bush-pea <i>Pultenaea lapidosa</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Strawberry Buttercup <i>Ranunculus collinus</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.

Species Name	Value	Applicable FMAs	Management Actions
Striped Pink-fingers <i>Caladenia carnea</i> <i>var. subulata</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Striped Pomaderris <i>Pomaderris pilifera</i> <i>subsp. pilifera</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Strzelecki Gum <i>Eucalyptus strzeleckii</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to an SPZ over each verified population.
Sturdy Leek-orchid <i>Prasophyllum aff. validum B</i>	Verified populations	Bendigo FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Subalpine Baeckea <i>Baeckea latifolia</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Summer Fringe-sedge <i>Fimbristylis aestivalis</i>	Verified populations	Mid-Murray FMA	Avoid disturbance to verified populations.
Summer Leek-orchid <i>Prasophyllum uvidulum</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Swamp Bush-pea <i>Pultenaea weindorferi</i>	Verified populations	Midlands FMA	Avoid disturbance to verified populations within the SMZ and GMZ.
Swamp Everlasting <i>Xerochrysum palustre</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Swamp Fern <i>Thelypteris confluens</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Swamp Fireweed <i>Senecio psilocarpus</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.

Species Name	Value	Applicable FMAs	Management Actions
Swamp Greenhood <i>Pterostylis tenuissima</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Tailed Eyebright <i>Euphrasia caudata</i>	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Tall Acrotriche <i>Acrotriche leucocarpa</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Tall Astelia <i>Astelia australiana</i>	Verified Tall Astelia colony	Central Highlands FMAs	Apply a 100 m buffer around each verified Tall Astelia colony. Discovery of a previously unknown colony during harvesting operations will not necessarily cause harvesting to cease, but every reasonable effort will be made to protect it. Where Tall Astelia occurs within Cool Temperate Rainforest or Riparian Thicket EVCs, apply a 100 m buffer around the EVC. Buffer widths may be smaller in cases where existing roads or ridgelines occur within the 100 m. Upstream of verified Tall Astelia colonies, apply a minimum vegetated buffer of 40 m between the valley floor, or 'wetted zone' and adjacent logging coupes. Where there is no discernible valley floor extend the buffer zone 40 m from the creek itself. Apply a 40 m buffer around isolated plants growing on road batters. No roads or snig tracks may be constructed through Tall Astelia colonies. Avoid constructing roads or snig tracks through Tall Astelia buffers . Any roads or snig tracks that do cross Tall Astelia buffers must be located as far upstream from the Tall Astelia colony as possible, and sedimentation of the Tall Astelia colony must be prevented. Where Tall Astelia occurs on seepage zones immediately below a coupe, snig tracks must be designed to minimise alteration to the sites normal drainage patterns.
	Verified Tall Astelia colony	Otways FMA	Apply a 100 m buffer around each verified Tall Astelia colony. Discovery of a previously unknown colony during harvesting operations will not necessarily cause harvesting to cease, but every reasonable effort will be made to protect it.
Tall Vanilla-lily <i>Arthropodium sp. 1 (robust glaucous)</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Tangled Pseudanthus <i>Pseudanthus orbicularis</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.

Species Name	Value	Applicable FMAs	Management Actions
Tasmanian Bladderwort <i>Utricularia monanthos</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Tasmanian Wax-flower <i>Philotheca virgata</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Tawny Spider-orchid <i>Caladenia fulva</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Thick Bent-grass <i>Deyeuxia crassiuscula</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Thick Eyebright <i>Euprasia crassiuscula</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Thick-lip Spider-orchid <i>Caladenia tessellata</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Tick Indigo <i>Indigofera adesmiifolia</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Tight Bedstraw <i>Galium curvihirtum</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Tingaringy Gum <i>Eucalyptus glaucescens</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the

Species Name	Value	Applicable FMAs	Management Actions
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Tiny Arrowgrass <i>Triglochin minutissima</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Tiny Bent <i>Agrostis australiensis</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Tiny Daisy <i>Brachyscome ptychocarpa</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Tiny Midge-orchid <i>Corunastylis nuda</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Tiny Spyridium <i>Spyridium cinereum</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Toothed leionema <i>Leionema bilobum</i> <i>subsp. serrulatum</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Trailing Hop-bush <i>Dodonaea procumbens</i>	Verified populations	Portland-Horsham FMA Bendigo FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Tree Geebung <i>Persoonia arborea</i>	Mature individuals	Central Highlands FMAs	Protect mature individuals from disturbance where possible.

Species Name	Value	Applicable FMAs	Management Actions
Tufted Club-sedge <i>Isolepis wakefieldiana</i>	Verified occurrences	Otways FMA	Manage verified occurrences in consultation with the Department unless already protected.
Tullach Ard Grevillea <i>Grevillea polychroma</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Turnip Copperburr <i>Sclerolaena napiformis</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Tussock Sedge <i>Carex iynx</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Tussock Sedge <i>Carex iynx</i>	Verified populations	North East FMAs	Protect verified populations from disturbance where possible.
Tussock Woodrush <i>Luzula alpestris</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Two-colour Panic <i>Panicum simile</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Umbrella Grass <i>Digitaria divaricatissima</i> var. <i>divaricatissima</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Upright Panic <i>Entolasia stricta</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Upright Pomaderris <i>Pomaderris virgata</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the

Species Name	Value	Applicable FMAs	Management Actions
			Department to ensure the species is adequately protected during timber harvesting operations .
Veined Beard-heath <i>Leucopogon neurophyllus</i>	Verified populations	Midlands FMA	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to an SPZ over each verified population.
Velvet Apple-berry <i>Billardiera scandens</i> s.s.	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Velvety Geebung <i>Persoonia subvelutinana</i>	Verified populations	Gippsland FMAs North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Victorian Flat-pea <i>Platylobium alternifolium</i>	Verified populations	Midlands FMA	Avoid disturbance to verified populations within the SMZ and GMZ.
Wallaby-bush <i>Beyeria lasiocarpa</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Warby Range Swamp-gum <i>Eucalyptus cadens</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the population is adequately protected during timber harvesting operations .
Wedge Diuris <i>Diuris dendrobioides</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Wedge Guinea-flower <i>Hibbertia diffusa</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Wedge Oschatzia <i>Oschatzia cuneifolia</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the

Species Name	Value	Applicable FMAs	Management Actions
			Department to ensure the species is adequately protected during timber harvesting operations .
Western Water-starwort <i>Callitriche cyclocarpa</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Wetland Blown-grass <i>Agrostis avecea var. perennis</i>	Verified populations	North East FMAs	Protect verified populations from disturbance where possible.
White Billy-buttons <i>Craspedia alba</i>	Verified populations	North East FMAs	Protect verified populations from disturbance where possible.
	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Whiteroot <i>Lobelia purpurascens</i>	Verified occurrences	Otways FMA	Manage verified occurrences in consultation with the Department unless already protected.
Wild Sorghum <i>Sorghum leiocladum</i>	Verified populations	Gippsland FMAs East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Wimmera Spider-orchid <i>Caladenia lowanensis</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Winged Everlasting <i>Ammobium alatum</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Winged Peppercross <i>Lepidium monoplocoides</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
	Verified populations	Mid-Murray FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 100 m radius over verified populations that are not already protected. Conduct a site inspection and detailed planning in consultation with the Department to ensure

Species Name	Value	Applicable FMAs	Management Actions
			the species is adequately protected during timber harvesting operations .
Winged Water-starwort <i>Callitriche umbonata</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Wiry Wallaby-grass <i>Plinthanthesis paradoxa</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Wombargo Wattle <i>Acacia tabula</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Woodland Leek-orchid <i>Prasophyllum aff. validum B</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Woolly Buttons <i>Leiocarpa panaetioides</i>	Verified populations	Mid-Murray FMA	Avoid disturbance to verified populations.
	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Woolly-bear Wattle <i>Acacia lucasii</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Woolly-head Pomaderris <i>Pomaderris eriocephala</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Wrinkled Buttons <i>Leptorhynchus gatesii</i>	Verified occurrences	Otways FMA	Manage verified occurrences in consultation with the Department unless already protected.

Species Name	Value	Applicable FMAs	Management Actions
Wrinkled Cassinia <i>Cassinia rugata</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.
Wrinkle-nut Lignum <i>Muehlenbeckia rhyticarya</i>	Verified populations	Gippsland FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to a SPZ of 200 m radius over each verified population.
Yarra Gum <i>Eucalyptus yarraensis</i>	Individual trees	Midlands FMA	Retain all individual Yarra Gum trees.
Yellow Elderberry <i>Sambucus australasica</i>	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Yellow Flat-sedge <i>Cyperus flavidus</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Yellow Hyacinth-orchid <i>Dipodium hamiltonianum</i>	Verified populations	North East FMAs	Where evidence of this value is identified in coupes in the field, apply an exclusion area equivalent to an SPZ over each verified population.
	Verified populations	East Gippsland FMA	Where evidence of this value is identified in coupes in the field, designate a management area equivalent to an SMZ of 200 m radius over verified populations. Conduct a site inspection and detailed planning in consultation with the Department to ensure the species is adequately protected during timber harvesting operations .
Yellow-lip Spider-orchid <i>Caladenia xanthochila</i>	Verified occurrences	Portland-Horsham FMA	Manage verified occurrences in consultation with the Department unless already protected.

Table 15 Detection based rules for Heathland, Snow Gum, Swamp Gum and Heath vegetation communities

FMA	Common name	Scientific name	Management actions
East Gippsland	Heathland (all heathland EVCs and other treeless vegetation)		Apply an exclusion area over full extent of heathland and other treeless vegetation communities.
Midlands	Snow Gum	<i>Eucalyptus pauciflora</i>	Apply an exclusion area over full extent of vegetation communities dominated by Snow Gum on Mt Cole.
Midlands	Swamp Gum	<i>Eucalyptus ovata</i>	Apply an exclusion area over full extent of vegetation communities dominated by Swamp Gum near Enfield.
Otway	Heathy Woodland, Wet Heath and Coastal Complex		Apply an exclusion area over all examples of these vegetation communities.

Table 16 Buffer widths for Rainforest Sites of Significance by category and priority

Site of Significance category	Priority			
	1	2	3	4
National	Extend to nearest watershed boundary	100 m	60 m	60 m
State	60 m	60 m	40 m	40 m
Regional	40 m	40 m	40 m	40 m

Table 17 Landscape management prescriptions

Applicable FMAs	Type	Place
Central Highlands FMAs	Designated Lookout	Environs of the Mount Toorongo lookout: Prominent views of Mt. Toorongo.
Central Highlands FMAs	Designated Lookout	Morris Lookout: Lookout
Central Highlands FMAs	Designated Lookout	Natural environs of the Mounts Despair and Disappointment lookouts: Mt Disappointment summit.
Central Highlands FMAs	Designated Lookout	Prominent views from Neerim: Tarago River SMZ and North Hells Gate lookout.
Central Highlands FMAs	Designated Lookout	Seven Acre Rock: Prominent views of Blue Range.
Central Highlands FMAs	Designated Lookout	Spion Kopje Lookout: 50 m either side of the walking track and lookout.
Central Highlands FMAs	Landscape Feature	Alpine Walking Track: 50 m either side of Alpine Walking Track.
Central Highlands FMAs	Landscape Feature	Caringal Scout Camp:
Central Highlands FMAs	Landscape Feature	Dom Dom Saddle: SMZ representing prominent views of this place.
Central Highlands FMAs	Landscape Feature	Enoch's Point township
Central Highlands FMAs	Landscape Feature	Forested escarpments (Black Range and Blue Range) as viewed from the Maroondah and Goulburn Valley Highways: Existing SMZ representing prominent views of Black Range and Blue Range.
Central Highlands FMAs	Landscape Feature	Labertouche Caves:
Central Highlands FMAs	Landscape Feature	Landscape values of the land bordering the Corranderrk and O'Shannassy aqueducts: Prominent views of Mt. Toole-be-wong .
Central Highlands FMAs	Landscape Feature	Little Yarra Valley: Prominent views of Britannia Range.
Central Highlands FMAs	Landscape Feature	Matlock Mining Area township
Central Highlands FMAs	Landscape Feature	Mt St Leonard: SMZ representing prominent views of this place.
Central Highlands FMAs	Landscape Feature	Murchison Fall and Strath Falls and their environs:
Central Highlands FMAs	Landscape Feature	Natural environs of Mount Beenak: Prominent views from Little Yarra Road.
Central Highlands FMAs	Landscape Feature	Opposite Rawson Caravan park: 50 m wide area opposite Rawson Caravan park.
Central Highlands FMAs	Landscape Feature	South Hells Gate: Prominent views from Neerim.
Central Highlands FMAs	Landscape Feature	Sylvia Creek falls and its environs

Applicable FMAs	Type	Place
Central Highlands FMAs	Landscape Feature	Views from Mt Donna Buang and from the Warburton Highway: 100 m along the Warburton Highway. Including prominent views from Mt Donna Buang and in particular of Mt Little Joe and Mt Tugwell.
Central Highlands FMAs	Landscape Feature	Warburton–Woods Point Road / Reefton Spur Road and Upper Yarra Reservoir Rd: 50 m either side of Warburton–Woods Point Road / Reefton Spur Road and Upper Yarra Reservoir Rd. Include prominent views of Cement Creek, Armstrong Creek.
Central Highlands FMAs	Scenic Drive	Acheron Way: 50 m either side of Acheron Way.
Central Highlands FMAs	Scenic Drive	Baw Baw Road: 50 m either side of Baw Baw Road.
Central Highlands FMAs	Scenic Drive	Eildon Road: 50 m either side of Eildon Road.
Central Highlands FMAs	Scenic Drive	Forested escarpments of the Mounts Tallarook and Disappointment forest as viewed from the Hume Highway: Prominent views of Mt Disappointment.
Central Highlands FMAs	Scenic Drive	Landscape of Pauls Range: 50 m either side of Chum Creek Road.
Central Highlands FMAs	Scenic Drive	Maroondah Highway: 100 m either side of Maroondah highway, prominent views.
Central Highlands FMAs	Scenic Drive	Marysville - Buxton Road: 50 m either side of Marysville - Buxton Road, and prominent views of Mt. Strickland, Triangle Block and Mt. Margaret.
Central Highlands FMAs	Scenic Drive	Melba Highway: 100 m either side of Melba Highway.
Central Highlands FMAs	Scenic Drive	Moe - Walhalla Road: 50 m either side of Moe - Walhalla Road.
Central Highlands FMAs	Scenic Drive	Murrindindi Road from Murrindindi to Murrindindi Cascades: 50 m either side of Murrindindi Road from Murrindindi to Murrindindi Cascades.
Central Highlands FMAs	Scenic Drive	Myers Creek Road: 50 m either side of Myers Creek Road.
Central Highlands FMAs	Scenic Drive	Myers Creek Scenic Reserve: 50 m either side of Myers Creek Road.
Central Highlands FMAs	Scenic Drive	Natural environs of Lady Talbot Drive, Marysville: 50 m either side of Lady Talbot Drive.
Central Highlands FMAs	Scenic Drive	Powelltown - Noojee Road: 50 m either side of Powelltown - Noojee Road.
Central Highlands FMAs	Scenic Drive	Powelltown - Noojee Road: 50 m either side of Powelltown - Noojee Road.
Central Highlands FMAs	Scenic Drive	Steavenson Falls Road: 50 m either side of Steavenson Falls Road.
Central Highlands FMAs	Scenic Drive	Thomson Valley - Mt St Gwinear Rd: 50 m either side of Thomson Valley - Mt St Gwinear Rd.
Central Highlands FMAs	Scenic Drive	Thomson Valley Road from Erica to the Thomson Reservoir : 50 m either side of Thomson Valley Road from Erica to the Thomson Reservoir. Include prominent views of Mt. Erica and Erica surrounds.
Central Highlands FMAs	Scenic Drive	Whittlesea - Yea Road: 50 m either side of Whittlesea - Yea Road.

Applicable FMAs	Type	Place
East Gippsland	Designated Lookout	Delegate Hill
East Gippsland	Designated Lookout	Genoa Peak
East Gippsland	Designated Lookout	Gunmark lookout
East Gippsland	Designated Lookout	Maramingo Hill
East Gippsland	Designated Lookout	Mount Bemm
East Gippsland	Designated Lookout	Mount Bowen
East Gippsland	Designated Lookout	Mount Buck
East Gippsland	Designated Lookout	Mount Denmark
East Gippsland	Designated Lookout	Mount Ellery
East Gippsland	Designated Lookout	Mount Kaye
East Gippsland	Designated Lookout	Mount McLeod
East Gippsland	Designated Lookout	Mount Nowa Nowa
East Gippsland	Designated Lookout	Mount Raymond
East Gippsland	Designated Lookout	Mount Seldom Seen
East Gippsland	Designated Lookout	Mount Stewart
East Gippsland	Designated Lookout	Mount Tingaringy
East Gippsland	Designated Lookout	Mount Tower
East Gippsland	Landscape Feature	Buchan: Black Satin Creek, Site # 810/07
East Gippsland	Landscape Feature	Buchan: Wattle Gully, Site # 812/09
East Gippsland	Landscape Feature	Buchan: W-Tree Creek headwaters, Site # 813/06
East Gippsland	Scenic Drive	Betka Forest Drive: Mallacoota and Croajingalong access; native forest management.
East Gippsland	Scenic Drive	Big River Road (part): Mount Ellery access.
East Gippsland	Scenic Drive	Bonang - Bendoc Road and Playgrounds Track: Day trips around Bendoc, Gold Mining, park access.
East Gippsland	Scenic Drive	Bonang Road (Orbost - NSW border): Mt Buck/Cooney Ridge; Mt Watt; Mt Rich; views from Goongerah to Postmans Spur and BA ridge (Mt Ellery in background); Mt Little Bill; Brown Mountain; views from Bonang area to Mt Koolabra and Cottonwood Range; enclosed forest canopy and high quality roadside scenery along Pinch Swamp Ck.
East Gippsland	Scenic Drive	Buchan Road (Bruthen - Buchan): Views west from Red Knob area; Pretty Sally; vegetation between roadside and SEC easement provides variety and reduces impact of easement; Fluke Knob; Spencer Knob; Lookout Rocks; Tara Range.
East Gippsland	Scenic Drive	Buchan—Jindabyne Road: National Estate (Road built in Great Depression). Mt Dawson; views from W-Tree to Dawson range (including Half Moon Gully, Mt Elephant, Lookout Top, Gum Top and Wagtail Ridge) and Mt Murrindal; Mt Statham; Mt Seldom Seen .
East Gippsland	Scenic Drive	Cabbage Tree - Cape Conran Road, Marlo - Cabbage Tree Road and Palms Track: National Estate(Baldwin - Spencer journey); access to Cabbage Palms Flora Reserve.
East Gippsland	Scenic Drive	Cann Valley Highway: Extensive views west across flats to forested range including Mt Noorinbee, High Peak, Cann Mountain, Morgan Hill and Bennet Knob, Mt Petterson.

Applicable FMAs	Type	Place
East Gippsland	Scenic Drive	Clarkeville Road: Errinundra National Park access.
East Gippsland	Scenic Drive	Coast Range Road (part): Part of tall forest experience in Errinundra National Park; nocturnal birds and arboreal mammals.
East Gippsland	Scenic Drive	Colquhoun Forest Drive: Koalas; historic features associated with the Orbost - Bairnsdale railway.
East Gippsland	Scenic Drive	Combienbar and Errinundra Rds: National Estate (Baldwin-Spencer journey); Errinundra National Park access; (through to Gap Rd) hills around Club Terrace; Pyramid Hill; Shining Gums and Cool Temperate Rainforest around Kanuka Creek; Tommy Roundhead Hill.
East Gippsland	Scenic Drive	Deddick River Road (part) 36-mile Road: Snowy River National Park access.
East Gippsland	Scenic Drive	Dellicknora / Cameron Roads: Tingaringy National Park access.
East Gippsland	Scenic Drive	Gap Road: National Estate (Baldwin-Spencer journey); high-quality foreground scenery.
East Gippsland	Scenic Drive	Greens Road: Access to Errinundra National Park and St Patricks Falls; native forest management.
East Gippsland	Scenic Drive	Gunmark Road: Major access to Errinundra National Park; extensive views across Delegate River headwaters; buffers required where road forms border between the Park and State forest.
East Gippsland	Scenic Drive	Harris Creek/ 2-mile Road: Mount Nowa Nowa access.
East Gippsland	Scenic Drive	Hensleigh Creek Road (part): Errinundra National Park access; nocturnal birds and arboreal mammals.
East Gippsland	Scenic Drive	Jones Creek Road: Coopracambra National Park access.
East Gippsland	Scenic Drive	Lake Tyers House Road: National Estate (Old Coach Road); Lake Tyers State Park access.
East Gippsland	Scenic Drive	Mallacoota and Betka Roads: Access to Mallacoota, beaches and Croajingolong National Park.
East Gippsland	Scenic Drive	Murrungowar Forest Drive (Princes Hwy - Murrungowar Rd - Glen Arte Rd - Bendoc Ridge Rd - Princes Hwy): Jungle Hill; Glen Arte Flora Reserve; regrowth thinning; side trips to Cabbage Tree Falls and St Patricks Falls; historic features around Murrungowar and Glen Arte.
East Gippsland	Scenic Drive	Nowa Nowa—Buchan Road: "The Gorge"; Mount Nowa Nowa; scenic alternative route to Buchan.
East Gippsland	Scenic Drive	Nunnett and Timbarra Roads: Alpine National Park access.
East Gippsland	Scenic Drive	Orbost-Buchan Road: National Estate (aesthetic quality).
East Gippsland	Scenic Drive	Princes Highway (Lakes Entrance—Orbost): Enclosed forest canopy between Nowa Nowa and Lakes Entrance; stream crossings at Hospital Ck, Hartland River and Simpson's Ck.
East Gippsland	Scenic Drive	Princes Highway (Orbost- NSW border): Stream crossings at Brodribb River (rainforest) and Jungle Ck; forested hills seen from Cabbage Tree Ck; thinning operations between Cabbage Tree and Bemm River; enclosed forest canopy between Bemm River and Lind National Park; Mt Bemm; Donalds Knob; hills to south of Tonghi Creek; views north up the Cann Valley; views north-west from Mt Drummer.
East Gippsland	Scenic Drive	Seldom Seen Tower Road : Access to Mount Seldom Seen.
East Gippsland	Scenic Drive	Sydenham Inlet Road: Wide clearing maintained as strategic fire-break; view from township and inlet north to hills above township.
East Gippsland	Scenic Drive	Tamboon and Point Hicks Roads: Croajingolong National Park access; middle ground views near Furnell Landing.
East Gippsland	Scenic Drive	Tulloch Ard Road: Snowy River National Park access.
East Gippsland	Scenic Drive	Wallagaraugh Road: Croajingolong National Park access.
East Gippsland	Scenic Drive	Wallagaraugh Road: Croajingolong National Park access.
East Gippsland	Scenic Drive	Wangarabell Road: Access to Maramingo Hill; Genoa river access.

Applicable FMAs	Type	Place
East Gippsland	Scenic Drive	West Wingan Road: Croajingolong National Park access.
East Gippsland	Scenic Drive	Yalmy/Rising Sun/Pinnak Roads: Major access road to Snowy River National Park; forest vistas into catchments of Cavender Ck, Serpentine Ck, Yalmy River and Stony Ck.
Gippsland FMAs	Designated Lookout	Bindi Lookout
Gippsland FMAs	Designated Lookout	Elphick Lookout: Lookout
Gippsland FMAs	Designated Lookout	Pendergast Lookout: Lookout
Gippsland FMAs	Designated Lookout	Stutterin' Fred's Lookout: Lookout
Gippsland FMAs	Landscape Feature	Blue Pool: Either side of the Freestone Creek.
Gippsland FMAs	Landscape Feature	Buenba Flat
Gippsland FMAs	Landscape Feature	Great Alpine Road: Prominent views.
Gippsland FMAs	Landscape Feature	Haunted Stream Valley/Stirling Ghost Town: 300 m either side of the river
Gippsland FMAs	Landscape Feature	Haunted Stream Valley: 300 m either side of the river.
Gippsland FMAs	Landscape Feature	Nicholson River: 100 m downstream of Marthavale, including up to track on west side of river and 50 m west side of Nicholson track.
Gippsland FMAs	Landscape Feature	The Brothers
Gippsland FMAs	Scenic Drive	Boola Road: 20 m either side of the road.
Gippsland FMAs	Scenic Drive	Bruthen – Buchan Road: 50 m either side of the road.
Gippsland FMAs	Scenic Drive	Dargo High Plains Road: 100 m either side of the road.
Gippsland FMAs	Scenic Drive	Deptford Road: 50 m either side of the road.
Gippsland FMAs	Scenic Drive	Fairy Dell: 50 m either side of the associated forest drive.
Gippsland FMAs	Scenic Drive	Great Alpine Road (part): Prominent views.
Gippsland FMAs	Scenic Drive	Heyfield – Licola Road
Gippsland FMAs	Scenic Drive	Hyland Highway: 50 m either side of the road.
Gippsland FMAs	Scenic Drive	South Gippsland Highway: Prominent views .
Gippsland FMAs	Scenic Drive	Strzelecki Highway: 50 m either side of the road.
Mid Murray	Landscape Feature	River Track: 20 m adjacent to the whole length of the road.
Mid Murray	Scenic Drive	Iron Punt Track: 20 m adjacent to the whole length of the road.
Mid Murray	Scenic Drive	Lock Road: 20 m adjacent to the whole length of the road.
Mid Murray	Scenic Drive	Nursery Track: 20 m adjacent to the whole length of the road.
Mid Murray	Scenic Drive	Rifle Butts Track to Five Sleepers Track to Thompson Track: 20 m adjacent to the whole length of the road.
Mid Murray	Scenic Drive	Stanton Break: 20 m adjacent to the whole length of the road.
Midlands	Designated Lookout	Ben Nevis Picnic Area
Midlands	Designated Lookout	Black Hill Lookout
Midlands	Designated Lookout	Daylesford Botanical Gardens Lookout

Applicable FMAs	Type	Place
Midlands	Designated Lookout	Jackson Lookout (Hepburn)
Midlands	Designated Lookout	Lookout Hill Picnic Area
Midlands	Designated Lookout	Mount Buangor Picnic Area
Midlands	Designated Lookout	Sovereign Hill Lookout
Midlands	Scenic Drive	Ararat - St Arnaud Road (Crowlands - Landsborough)
Midlands	Scenic Drive	Bacchus Marsh - Gisborne Road
Midlands	Scenic Drive	Ballan - Daylesford Road
Midlands	Scenic Drive	Ballan Daylesford Road
Midlands	Scenic Drive	Ballarat - Buninyong Road (Sovereign Hill - Buninyong)
Midlands	Scenic Drive	Beaufort - Lexton Road
Midlands	Scenic Drive	Bungaree Creswick Road
Midlands	Scenic Drive	Clunes Creswick Road
Midlands	Scenic Drive	Creswick Dean Road
Midlands	Scenic Drive	Daylesford - Ballarat Road
Midlands	Scenic Drive	Daylesford - Malmesbury Road
Midlands	Scenic Drive	Daylesford - Trentham Road
Midlands	Scenic Drive	Gisborne - Melton Road (Pyrites forest)
Midlands	Scenic Drive	Glenelg Highway (Linton - Smythesdale)
Midlands	Scenic Drive	Greendale - Myrning Road
Midlands	Scenic Drive	Greendale - Trentham Road
Midlands	Scenic Drive	Kyneton - Trentham Road
Midlands	Scenic Drive	Lal Lal Falls Road
Midlands	Scenic Drive	Lerderberg River (Heritage River Section)
Midlands	Scenic Drive	Midland Highway (Ballarat - Springmount)
Midlands	Scenic Drive	Midland Highway (Kennedys Gully - Spingmount)
Midlands	Scenic Drive	Midlands Highway (Clarendon - Meredith)
Midlands	Scenic Drive	Mount Cole Main Road
Midlands	Scenic Drive	Myrning Trentham Road
Midlands	Scenic Drive	Navigators Road
Midlands	Scenic Drive	Pyrenees Highway (Avoca - St Arnaud - Ararat Road)
Midlands	Scenic Drive	Sebastopol - Smythesdale Road (Smythesdale - Ross Creek)
Midlands	Scenic Drive	Springs Road

Applicable FMAs	Type	Place
Midlands	Scenic Drive	Sunraysia Highway (Avoca - Tanwood)
Midlands	Scenic Drive	Western Freeway (Bacchus Marsh - Bungaree)
Midlands	Scenic Drive	Western Highway (Mt. Langi Ghiran - Beaufort)
Midlands	Scenic Drive	White Swan Road
North East FMAs	Designated Lookout	Mt Murramurrangbong and Mt Big Ben
North East FMAs	Landscape Feature	15 Mile Creek: Visual corridor and natural water feature. 50 m either side of creek.
North East FMAs	Landscape Feature	Beechworth Forest Drive: Scenic corridor for tourist roads. 50 m each side of road.
North East FMAs	Landscape Feature	Big Hill/The Springs Saddle/Bald Hill/Bogong Jack Saddle: Mountain views from Mt Beauty township and Mt Fainter North. Scenic corridor for tourist roads.
North East FMAs	Landscape Feature	Bindaree Falls: 100 m radius over the falls.
North East FMAs	Landscape Feature	Buckland Valley: Dingo Ck to Buckland River East Branch, 50 m each side of stream.
North East FMAs	Landscape Feature	Carters Road Picnic Area: High scenic values in recreation area. 50 m radius over the picnic area.
North East FMAs	Landscape Feature	Clear Creek (Tributary of Buckland River): 50 m each side of stream.
North East FMAs	Landscape Feature	Conic Range (partly State forest)
North East FMAs	Landscape Feature	Craig Hut: 200 m radius over the hut.
North East FMAs	Landscape Feature	Dandongadale River: Visual corridor and natural water feature. 50 m each side of river.
North East FMAs	Landscape Feature	Granite Peak: RNE Natural site. Mountain Views from Omeo Hwy. State forest above 1100 m elevation.
North East FMAs	Landscape Feature	Harkers Creek (Mitta Mitta) : 50 m each side of stream
North East FMAs	Landscape Feature	Harrietteville Valley (vicinity of Harrietteville) and Ovens River, West Branch: 20 m each side of the Great Alpine Road.
North East FMAs	Landscape Feature	Holland Creek (part): Visual corridor and natural water feature. 50 m either side of creek.
North East FMAs	Landscape Feature	Lightning Ridge (Strathbogie Ranges): Mountain views from Lake Nillahcootie and Midland Highway.
North East FMAs	Landscape Feature	Mitta Mitta Valley (downstream of Mitta Mitta): NTA(V) classified, Visual corridor and natural water feature. 50 m each side of road.
North East FMAs	Landscape Feature	Moonee Range (Strathbogie Ranges): Mountain view from Midland Highway
North East FMAs	Landscape Feature	Mt Pinnibar
North East FMAs	Landscape Feature	Myrtle (Barwidgee) Creek Valley (vicinity of Myrtleford): 50 m on State forest side of Stanley to Barwidgee Road.
North East FMAs	Landscape Feature	Pheasant Creek (Tributary of Buckland River): Visual corridor and natural water feature. 50 m each side of road.
North East FMAs	Landscape Feature	Plain Creek Tramway (Sawmill Settlement): Historic site of local significance. 20 m buffer around the historic trestle bridge.
North East FMAs	Landscape Feature	Sandy Creek Waterfall (Strathbogie Ranges): 100 m radius over the falls.
North East FMAs	Landscape Feature	Snowy Creek Waterfall: 100 m radius over the falls.
North East FMAs	Landscape Feature	The Pinnacles & Mt Jack including Barwidgee Creek: Headwaters of Barwidgee Creek.
North East FMAs	Landscape Feature	Trappers Creek (near Mountain Creek): Visual corridor and natural water feature. 50 m each side of road.
North East FMAs	Landscape Feature	Upper Delatite valley (vicinity of Mirimbah): 200 m each side of river.
North East FMAs	Landscape Feature	Upper Nariel valley above Crawford Crossing: Visual corridor and natural water feature. 50 m each side of stream (where in State forest).

Applicable FMAs	Type	Place
North East FMAs	Landscape Feature	West Kiewa valley: Viewed from Mt Feathertop, indicative aesthetic National Estate.
North East FMAs	Landscape Feature	Wongungarra & Humffray Rivers & Teatree Range except ridge: Indicative Natural Landscape (National Estate). Located in National Park, and Mt Sarah Scenic Reserve.
North East FMAs	Landscape Feature	Yackandandah Creek (from Nine Mile Creek to State forest boundary): Visual corridor and natural water feature. 50 m either side of creek.
North East FMAs	Landscape Feature	Yarrabulla Creek: Visual corridor and natural water feature. 50 m each side of stream. Partly within Remote & Natural Area.
North East FMAs	Landscape Feature	Yarrabulla Creek: Visual corridor and natural water feature. 50 m each side of stream. Partly within Remote & Natural Area.
North East FMAs	Scenic Drive	Nariel-Benambra Road: Scenic corridor for tourist road. 50 m each side of road.

Table 18 Recreation sites

FMA	Locality	Place	Extent of SMZ
Gippsland FMAs	Heyfield	12 Mile Creek	50 m radius over the site.
Gippsland FMAs	Heyfield	Gows Hotel	50 m radius over the site.
Gippsland FMAs	Heyfield	Kinleys Yards	50 m radius over the site.
Gippsland FMAs	Heyfield	Noon Road	50 m radius over the site.
Gippsland FMAs	Swifts Creek	Washington Winch	200 m radius over the site.
North East FMAs	Beechworth	Beechworth Forest Drive (Includes Clarkes Corner, Murrungee Lookout and Bates Dam en route)	Forest drive and environs.
North East FMAs	Myrtleford	Dandongadale River	50 m radius over the site.

Table 19 Research sites

FMA	Locality	Research project	Management Actions
Gippsland FMAs	Harraps Highway	Regrowth of Phytophthora cinnamomi dieback	Limit activities to those that are compatible with the experiment objectives.
Gippsland FMAs	Old Rosedale Road	Planting on dieback affected sites	Limit activities to those that are compatible with the experiment objectives.
Gippsland FMAs		Boola Silvertop thinning trials	Limit activities to those that are compatible with the experiment objectives.
Gippsland FMAs		Mullungdung Phytophthora cinnamomi progeny trial EUC475	Limit activities to those that are compatible with the experiment objectives.
Gippsland FMAs	Bentley's Plain Road	E. delegatensis provenance trial	Limit activities to those that are compatible with the experiment objectives.
Gippsland FMAs	Engineers Road, Barmouth Spur Track, Clarks Track, Angora Range Road	Gippsland mixed species growth study	Limit activities to those that are compatible with the experiment objectives.
Midlands	Wombat and Mt Cole SF	Armillaria research	Exclude timber harvesting and other management activities which will affect research objectives until 2020.
Midlands	Wombat SF	Fire effects study area	Exclude timber harvesting and other management activities until such time as the areas are no longer required.
Midlands	Wombat SF	Regrowth thinning and fertiliser trials	Restrict timber harvesting and other management operations to those that are compatible with the objectives of the research until 2020.
Midlands		Forest growth plots	Exclude timber harvesting and other management activities until such time as the areas are no longer required.
Midlands		Continuous Forest Inventory plots	Protect unharvested plots and a 50m buffer until 2020. Review the need for further protection at this time.
North East FMAs	Clear Hills	1957 Alpine Ash thinning trials	Limit activities to those that are compatible with the experiment objectives.
North East FMAs	Flagstaff	KTRI Paterson's Curse Crown Boring Weevil research site	Limit activities to those that are compatible with the experiment objectives.
North East FMAs	Highett Ridge Eildon Mount Elliot	KTRI St John's Wort Mite research sites	Limit activities to those that are compatible with the experiment objectives.
North East FMAs	Lords Creek Mt Wills Creek / Snowy Creek Lightning Creek Track Bullhead Callaghan Creek Long Spur	KTRI Blackberry Rust Fungus research sites	Limit activities to those that are compatible with the experiment objectives.
North East FMAs	Mt Pinnibar	1928 Alpine Ash thinning trial	Limit activities to those that are compatible with the experiment objectives.
North East FMAs	Myrtleford	Cropper Creek hydrologic research project	Limit activities to those that are compatible with the experiment objectives.

FMA	Locality	Research project	Management Actions
North East FMAs	Old Tolmie Road, Toombullup	CFTT Tree Breeding Research provenance trials for <i>E. delegatensis</i> (EUC 411 1979), <i>E. globulus</i> (EUC413 1981) and <i>E. nitens</i> (EUC 426 1990)	Limit activities to those that are compatible with the experiment objectives.
North East FMAs	Riley Creek	Long-footed Potoroo research trapping grid	Manage in accordance with Long-footed Potoroo prescriptions.

Table 20 Road classification system

Road Class ¹	Type	Service Function Description	Road Type Description
5A	Primary Road >100 ADT ²	<ul style="list-style-type: none"> Provides primarily for the main traffic movements into and through a region. This includes access to high use visitor sites and forest areas Caters generally for higher travel speed, all vehicle types including large vehicles (i.e. buses and trucks). 	<ul style="list-style-type: none"> All weather road predominantly 2-lane and mainly sealed. A high quality³ of service road Design speed standard of 80 – 50 km/h according to terrain Minimum carriageway width is 7 m
5B	Secondary Road 100 – 30 ADT	<ul style="list-style-type: none"> Provides access to moderate use visitor sites and forest areas Serves the purpose of collecting and distributing traffic from local areas, moderate use visitor sites and forest areas to or from primary or minor roads Caters for moderate travel speed a full range of vehicles including large vehicles 	<ul style="list-style-type: none"> All weather 2 lane road formed and gravelled or single lane sealed road with gravel shoulders A good quality of service road Design speed standards of at 70 – 30 km/h according to terrain
5C	Minor Road 50 – 20 ADT	<ul style="list-style-type: none"> Provides a link to low and moderate use visitor sites and forest areas, and forms a feeder link to a logging coupe access track/road or fire track Purpose is to link areas, which are traffic generators to secondary or primary roads Caters for lower travel speed and full range of vehicles 	<ul style="list-style-type: none"> Generally all-weather single lane 2-way unsealed formed road usually lightly gravelled A fair quality of service road Design speed standards of 60 – 20 km/h according to terrain
5D	Access Track/Road <20 ADT	<ul style="list-style-type: none"> Provides access to low use visitor sites and forest areas Can be short term, temporary or feeder roads to access individual timber harvesting coupes Provides for fire protection and management access (sometimes exclusively for management vehicles only) Caters for low travel speed and a range of vehicles in dry weather May be seasonally closed 	<ul style="list-style-type: none"> Substantially a single lane 2-way generally dry-weather, formed (natural materials) track/road A low quality of service track/road Design speeds of 40 - <20 km/h according to terrain May be restricted to 4 wheel-drive vehicles
5E	Rough Track <10 ADT	<ul style="list-style-type: none"> Provides primarily for 4 wheel-drive vehicles Mainly used for fire protection purposes, management access and limited recreational activities Caters for very low travel speed May be seasonally closed May be restricted to management vehicles only 	<ul style="list-style-type: none"> Predominantly a single lane 2-way earth tracks (unformed) at or near the natural surface level A very low quality of service track Predominantly not conforming to any geometric design standards

Notes: ¹ The prefix 5 is related to the Austroads National Functional Road Classification categories.

² Average Daily Traffic (ADT) represents the average daily traffic over the peak season.

³ Quality of service is defined in terms of the level of convenience, (geometric standards), comfort (ride qualities) and safety (travel consistency) provided.

Table 21 Guidelines to the main geometric design standards – unsealed roads

Main Geometric Characteristic	5B Secondary			5C Minor			5D Access			5E Tracks			Comments
	Flat	Rolling	M'tain	Flat	Rolling	M'tain	Flat	Rolling	M'tain	Flat	Rolling	M'tain	
Speed value km/hr	70	50	30	60	40	20	40	30	<20	N/A	N/A	N/A	Based on 85th percentile speed
Cross section elements													
Number of traffic lanes	2	2	2	1	1	1	1	1	1	1	1	1	5B – two lane unsealed
Minimum cross fall/camber %													
Sealed road	3	3	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Unsealed road	5	5	5	5	5	5	5	5	5	4	4	4	Min of 4% to drain rain fall off tracks
Max superelevation % (2)													
Sealed road	6-8	6-10	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Actual value based on curve radius adopted
Unsealed road	6	8	10	6	8	10	6	8	10	N/A	N/A	N/A	
Min traffic lane width m (3)	3	3	3	3	3	3	3	3	3	3	3	3	Unsealed values
Min shoulder widths m	0.5	0.5	0.5	1.5	1	0.5	1	0.5	0.5	0	0	0	Unsealed values
Min carriageway width (lanes + shoulders) m	7	7	7	6	5	4	5	4	4	3	3	3	Unsealed values
Min formation width (including verges)	9	9	9	8	7	6	7	6	6	3	3	3	Unsealed values
Horizontal Geometry													
Min radius curve m (5)													
Sealed road	110	45	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Unsealed road	250	100	35	170	60	15	70	35	15	N/A	N/A	N/A	
Min stopping sight distance m (6)													
Sealed road	90	50	25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	At tight curves check for lateral obstructions to

Main Geometric Characteristic	5B Secondary			5C Minor			5D Access			5E Tracks			Comments
	Flat	Rolling	M'tain	Flat	Rolling	M'tain	Flat	Rolling	M'tain	Flat	Rolling	M'tain	
Unsealed road	120	70	30	90	50	30	50	30	20	N/A	N/A	N/A	provide the stopping sight distance required.
Min meeting sight distance m (7)													
Sealed road	170	100	45	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	For high volume roads may need to check for overtaking provisions
Unsealed road	230	130	60	180	100	60	100	60	40	N/A	N/A	N/A	
Vertical Geometry													
Max vertical grade % (8)	6	8	12	6	8	12	6	8	15	N/A	N/A	N/A	For tracks avoid steep grades to reduce soil erosion
Min crest vertical curve K values (9)	28	9	5	9	4	2	4	2	1	N/A	N/A	N/A	Unsealed values
Min sag vertical curve K values (10)	8	4	3	6	3	2	3	2	1	N/A	N/A	N/A	Unsealed values

- (1) A simple classification of 'flat', 'rolling' and 'mountainous' terrain descriptions has been adopted as a basis for specifying appropriate geometric standards. The definition of each can be described in general terms as follows:
- Flat terrain – Roads generally follow the ground contours. Typical gradients being up to 1:20 or 5 % (<3 degrees).
 - Rolling terrain – Roads can have substantial cuts and fills. Typical gradients being up to 1:20 to 1:8 or 5 – 12.5 % (3-7 degrees)
 - Mountainous terrain – Roads in rugged hilly or mountainous ground with substantial restrictions to both horizontal and vertical alignments. Typical gradients being > 1:8 or > 12.5 % (7 degrees).
- (2) The maximum superelevation value will need to take into account the use of the road by high loaded heavy vehicles, speed and curve radii.
- (3) In cases where there is a high percentage of heavy vehicles (>20%) minimum lane widths can be increased by 0.5 m.
- (4) Allows for 1m verge/table drain width. This must be reviewed based on actual locations where for drainage reasons greater widths may be required.
- (5) This is based on Austroads (1989) and Giummarra G. (2001). Lower values of surface coefficients on unsealed roads result in radii being greater. Values rounded up. For minimum radius curves widening on the inside of a curve may be necessary to accommodate longer vehicles.
- (6) Based on reaction time of 2 seconds and surface coefficients relating to sealed and unsealed surfaces and values round up. Values based on flat grades and allowances will need to be made for up and down grades.

- (7) This is a requirement for single lane two-way roads. Values rounded up.
- (8) In some cases higher grades of up to 20% can be allowed for short sections (about 150 m). Keep grades on unsealed roads lower due to ravelling and scouring of surface.
- (9) Calculation of these values if to be based on information contained in Austroads (1989) for sealed roads and Giummarra G. (2000) for unsealed roads. The length of the vertical curve (L) is based on the product of K multiplied by the algebraic difference in grades percentage A. (i.e. $L+K \times A$).
- (10) Sag values are based on comfort control criteria.

Table 22 Minimum clearing widths (m) required for typical road construction

Side Slope		Road Class			
Degrees	%	5B	5C	5D	5E
0-7.5	0-13	13	7	6	4
7.5-15	13-27	17	11	10	7
15-22.5	27-41	23	17	16	10
22.5-30	41-58	30	24	23	14

Notes:

- Refer to **Table 20 Road classification system** above for road class definitions.
- The recommended clearing width is a horizontal distance.
- **Table 22 Minimum clearing widths (m) required for typical road construction** above assumes that debris disposal is complete before construction commences.
- Extra clearing width may be required if debris disposal is concurrent with road construction.
- Clearing widths do not include slashed verges except within engineering or road safety priority areas where extra cleared widths are shown to be required.
- The recommended clearing width for **temporary road** is 6m.
- Additional widening is often required at curves.

Table 23 Maximum distance between drainage structures

Soil Erosion Hazard	ROAD GRADE								
	1:50	1:25	1:15	1:12	1:10	1:8	1:7	1:5	
	1°	2°	3.5°	4.5°	6°	7°	8°	11°	
	2%	4%	6%	8%	10%	12%	15%	20%	
Low	250	170	130	115	100	90	60	30	
Moderate	200	150	120	105	90	80	50	NP ¹	
High	160	130	110	95	80	65	NP ¹	NP ¹	

Notes:

- Drainage structures include culverts, roll-overs, and inverts or cross drains.
- ¹ Road Grade Not Permitted.

Table 24 Fire severity classification

Severity class	Severity type	Description
1	crow n burn	<i>90 – 100 % of eucalypt and non-eucalypt crowns are burnt.</i> an intense burn with widespread crown removal.
2	crow n scorch	<i>60 – 100 % of eucalypt and non-eucalypt crowns are scorched some crowns are burnt.</i> an intense understorey fire with complete crown scorch of most eucalypt and non-eucalypts.
3	moderate crow n scorch	<i>30 – 65 % of eucalypt and non-eucalypt crowns are scorched.</i> a variable intensity of fire ranging from a warm ground burn with no crown scorch to an intense understorey fire with complete crown scorch of most eucalypt and non-eucalypts.
4	light crow n scorch	<i>1 – 35 % of eucalypt and non-eucalypt crowns are scorched.</i> a light ground burn with isolated patches of intense understorey fire and some crown scorch.
5	no crow n scorch	< 1 % of eucalypt and non-eucalypt crowns are scorched, understorey may be burnt or unburnt.

Figure 2 Field process for determining FMZ based on modelled or mapped values

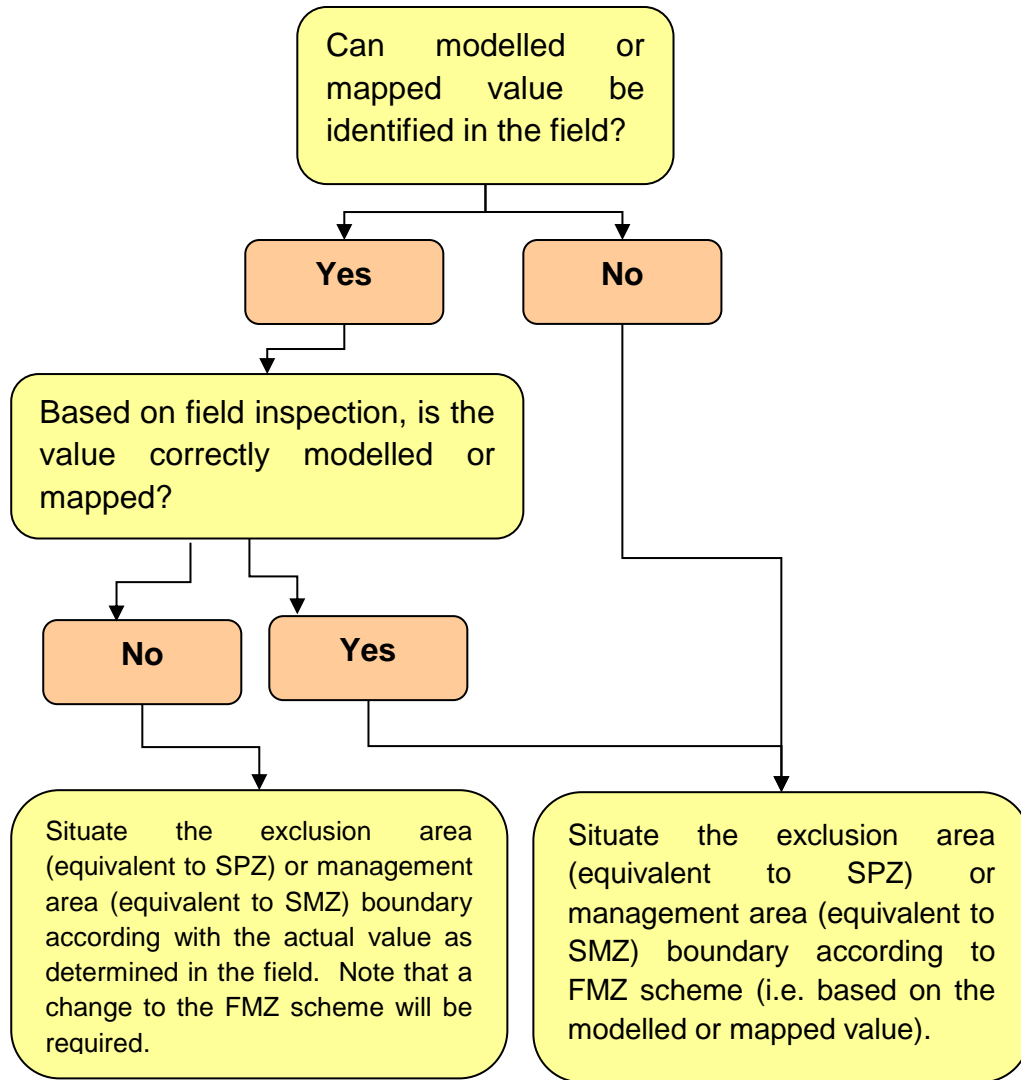


Table 25 Salvage harvesting Barred Galaxia minimum buffer and filter strip widths

Stream Class	Slope 0-20°	Slope 21-30°
Permanent	40 m B + 10 m F	50 m B + 10 m F
Temporary	20 m B + 20 m F	30 m B+ 20 m F
Drainage Lines	10 m F	15 m F
Wetlands	40 m B	50 m B

Note: Slope is the average slope of the **coupe** and potential buffer area situated within 100 m of the **waterway** or to the top of the drainage basin (whichever is closest).

Table 26 Basal Area (BA) and stocking specifications for commercial ash thinning

Stand age (yrs.)	Minimum retained BA (m ² /ha)	Stocking range (stems/ha)	Average square spacing (m)
14-20	17	300-400	5.3
21-30	20	230-320	6.0
31-35	23	170-250	6.9
36-40	28	120-190	8.0
41+	32	80-140	9.5