

#### EVC/Bioregion Benchmark for Vegetation Quality Assessment

Northern Inland Slopes bioregion

EVC 7: Clay Heathland

Description:

Occurs on sites with impeded drainage, often on duplex soils. Dominated by heathy shrub species with occasional emergent eucalypts. The ground layer is dense and diverse with a variety of landforms.

+ woodland only components (ignore when assessing treeless areas and standardise final score as appropriate)

Large trees+:

|  |  |  |
| --- | --- | --- |
| **Species** | **DBH(cm)** | **#/ha** |
| Eucalyptus spp. | 40 cm | 10 / ha |

**Tree Canopy Cover+:**

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 10% | Eucalyptus dives  Eucalyptus macrorhyncha Eucalyptus mannifera | Broad-leaved Peppermint  Red Stringybark Brittle Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 9 | 30% | MS |
| Small Shrub | 6 | 10% | SS |
| Prostrate Shrub | 3 | 5% | PS |
| Medium Herb | 8 | 10% | MH |
| Large Tufted Graminoid | 4 | 10% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 7 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Epacris impressa | **Common Name**  Common Heath |
| MS | Leptospermum continentale | Prickly Tea-tree |
| MS | Banksia marginata | Silver Banksia |
| MS | Cassinia longifolia | Shiny Cassinia |
| SS | Kunzea parvifolia | Violet Kunzea |
| SS | Pimelea humilis | Common Rice-flower |
| SS | Gompholobium huegelii | Common Wedge-pea |
| SS | Dillwynia phyllicoides | Small-leaf Parrot-pea |
| PS | Acrotriche serrulata | Honey-pots |
| PS | Bossiaea prostrata | Creeping Bossiaea |
| PS | Pultenaea procumbens | Heathy Bush-pea |
| PS | Boronia nana | Dwarf Boronia |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Hypericum gramineum | Small St John's Wort |
| MH | Viola betonicifolia ssp. betonicifolia | Showy Violet |
| LTG | Deyeuxia quadriseta | Reed Bent-grass |
| LTG | Xanthorrhoea minor ssp. lutea | Small Grass-tree |
| LNG | Gahnia radula | Thatch Saw-sedge |
| MTG | Schoenus apogon | Common Bog-sedge |
| MTG | Poa sieberiana | Grey Tussock-grass |
| MTG | Lepidosperma laterale | Variable Sword-sedge |
| MTG | Themeda triandra | Kangaroo Grass |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| MNG | Echinopogon ovatus | Common Hedgehog-grass |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 7: Clay Heathland - Northern Inland Slopes bioregion | |
|  | **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 30 years.  **Organic Litter:**  20% Cover  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low  Published by the Victorian Government Department of Sustainability and Environment December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes Bioregion

EVC 7\_61: Treed Clay Heathland

###### Description:

Occurs on sites with impeded drainage, often on duplex soils. Dominated by heathy shrub species with occasional emergent eucalypts. The ground layer is dense and diverse with a variety of landforms.

###### Large Trees:

**Species DBH(cm) #/ha**

*Eucalyptus spp.*

40 cm

10 / ha

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 10% | *Eucalyptus dives Eucalyptus macrorhyncha*  *Eucalyptus mannifera subsp. mannifera* | Broad-leaved Peppermint Red Stringybark  Brittle Gum |

**Understorey: Lifeform** Medium Shrub Small Shrub Prostrate Shrub Medium Herb

Large Tufted Graminoid Large Non-Tufted Graminoid

Medium to Small Tufted Graminoid Medium to Tiny Non-Tufted Graminoid

###### #Spp %Cover LF Code

9 30% MS

6 10% SS

3 5% PS

8 10% MH

4 10% LTG

1 5% LNG

7 10% MTG

2 5% MNG

Bryophytes/Lichens 10% BL



Soil Crust 10% S/C

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  *Banksia marginata* | **Common Name**  Silver Banksia |
| MS | *Cassinia longifolia* | Shiny Cassinia |
| MS | *Epacris impressa* | Common Heath |
| MS | *Leptospermum continentale* | Prickly Tea-tree |
| SS | *Dillwynia phylicoides* | Small-leaf Parrot-pea |
| SS | *Gompholobium huegelii* | Common Wedge-pea |
| SS | *Kunzea parvifolia* | Violet Kunzea |
| SS | *Pimelea humilis* | Common Rice-flower |
| PS | *Acrotriche serrulata* | Honey-pots |
| PS | *Boronia nana* | Dwarf Boronia |
| PS | *Bossiaea prostrata* | Creeping Bossiaea |
| PS | *Pultenaea procumbens* | Heathy Bush-pea |
| MH | *Gonocarpus tetragynus* | Common Raspwort |
| MH | *Hypericum gramineum* | Small St John's Wort |
| MH | *Viola betonicifolia* | Showy Violet |

Ecological Vegetation Class Bioregion Benchmark

|  |  |
| --- | --- |
| EVC 7\_61: Treed Clay Heathland | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  LTG *Deyeuxia quadriseta* Reed Bent-grass  LTG *Xanthorrhoea minor subsp. lutea* Small Grass-tree  LNG *Gahnia radula* Thatch Saw-sedge  MTG *Lepidosperma laterale* Variable Sword-sedge  MTG *Poa sieberiana* Grey Tussock-grass  MTG *Schoenus apogon* Common Bog-sedge  MTG *Themeda triandra* Kangaroo Grass  MNG *Echinopogon ovatus* Common Hedgehog-grass  MNG *Microlaena stipoides var. stipoides* Weeping Grass  **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 30 years.  **Organic Litter:**  20 % cover  **Logs:**  5 m/0.1ha. (note: large log class does not apply).  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH *Hypochoeris radicata* Cat's Ear high low  Published by the Victorian Government Department of Sustainability and Environment  © The State of Victoria Government Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-comercial is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson St, East Melbourne, Victoria 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss, of other consequences which may arise from you relying on any information in this publication.  [**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/) |



#### EVC/Bioregion Benchmark for Vegetation Quality Assessment

Northern Inland Slopes bioregion

EVC 18: Riparian Forest

Description:

A tall forest to 30 m tall along river banks and associated alluvial terraces with occasional occurrences in the heads of gullies leading into creeks and rivers. Soils are fertile alluvium, regularly inundated and permanently moist. Dominated by tall eucalypts, but also has an open to sparse secondary tree layer of wattles and scattered dense patches of shrubs, ferns, grasses and herbs.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species**  Eucalyptus spp. | **DBH(cm)**  80 cm | **#/ha**  20 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Eucalyptus radiata ssp. radiata  Eucalyptus viminalis  Eucalyptus globulus ssp. bicostata | Narrow-leaf Peppermint  Manna Gum Eurabbie |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 3 | 15% | T |
| Medium Shrub | 5 | 20% | MS |
| Small Shrub | 1 | 1% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 11 | 20% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Tufted Graminoid | 4 | 15% | LTG |
| Large Non-tufted Graminoid | 2 | 5% | LNG |
| Medium to Small Tufted Graminoid | 4 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Ground Fern | 4 | 15% | GF |
| Tree Fern | 1 | 5% | TRF |
| Scrambler or Climber | 2 | 5% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 18: Riparian Forest - Northern Inland Slopes bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Pomaderris aspera Hazel Pomaderris  T Acacia melanoxylon Blackwood  MS Prostanthera lasianthos Victorian Christmas-bush  MS Olearia lirata Snowy Daisy-bush  MS Coprosma quadrifida Prickly Currant-bush  MS Cassinia aculeata Common Cassinia  PS Acrotriche prostrata Trailing Ground-berry  LH Senecio minimus Shrubby Fireweed  LH Senecio linearifolius Fireweed Groundsel  MH Acaena novae-zelandiae Bidgee-widgee  MH Stellaria pungens Prickly Starwort  MH Geranium potentilloides Cinquefoil Cranesbill  SH Dichondra repens Kidney-weed  SH Lobelia pedunculata s.l. Matted Pratia  SH Leptinella filicula Mountain Cotula  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Carex appressa Tall Sedge  LTG Lepidosperma elatius Tall Sword-sedge  LTG Poa labillardierei Common Tussock-grass  LNG Tetrarrhena juncea Forest Wire-grass  MTG Dianella tasmanica Tasman Flax-lily  MTG Isolepis inundata Swamp Club-sedge  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Poa tenera Slender Tussock-grass  GF Polystichum proliferum Mother Shield-fern  GF Blechnum nudum Fishbone Water-fern  GF Pteridium esculentum Austral Bracken  GF Adiantum aethiopicum Common Maidenhair  SC Clematis aristata Mountain Clematis  **Recruitment:**  Continuous  **Organic Litter:**  50 % cover  **Logs:**  30 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Rubus fruticosus spp. agg. Blackberry high high LH Sonchus asper s.l. Rough Sow-thistle high low  LH Cirsium vulgare Spear Thistle high high  MH Hypochoeris radicata Cat's Ear high low  MH Prunella vulgaris Self-heal high high MH Centaurium erythraea Common Centaury high low  LNG Holcus lanatus Yorkshire Fog high high  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 19: Riparian Shrubland

Description:

Medium to tall shrubland to 8 m tall occurring on rocky substrates of major streams and banks and channels of rocky creeks and along perennial streams in gorge tracts. Able to withstand frequent flooding or regenerate rapidly after such disturbance and often forming dense thickets along the stream's edge during long periods without flooding. Emergent trees may be irregularly scattered throughout but tend to be restricted to the banks of the rivers and creeks. Sedges and rushes common to riparian environments dominate the understorey as well as an array of herbs and grasses including many ephemeral species which survive on the bare sands or in rock crevice.

Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 20% | Acacia dealbata | Silver Wattle |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** Medium Shrub | **#Spp**  4 | **%Cover**  5% | **LF code**  MS |
| Small Shrub | 1 | 1% | SS |
| Large Herb | 5 | 5% | LH |
| Medium Herb | 8 | 10% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Large Tufted Graminoid | 3 | 5% | LTG |
| Large Non-tufted Graminoid | 2 | 1% | LNG |
| Medium to Small Tufted Graminoid | 8 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 4 | 5% | MNG |
| Ground Fern | 1 | 1% | GF |
| Bryophytes/Lichens | na | 20% | BL |
| **Total understorey projective foliage cover** |  | **70%** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  MS |  | **Species typical of at least part of EVC range**  Bossiaea foliosa | **Common Name**  Leafy Bossiaea |
| MS |  | Callistemon sieberi | River Bottlebrush |
| MS |  | Acacia verniciflua | Varnish Wattle |
| SS |  | Rubus parvifolius | Small-leaf Bramble |
| LH |  | Senecio quadridentatus | Cotton Fireweed |
| LH |  | Persicaria hydropiper | Water Pepper |
| LH |  | Persicaria decipiens | Slender Knotweed |
| MH |  | Alternanthera denticulata s.l. | Lesser Joyweed |
| MH |  | Centipeda cunninghamii | Common Sneezeweed |
| MH |  | Euchiton involucratus s.l. | Common Cudweed |
| SH |  | Hypericum japonicum | Matted St John's Wort |
| SH |  | Crassula helmsii | Swamp Crassula |
| LTG |  | Juncus usitatus | Billabong Rush |
| LTG |  | Carex polyantha | River Sedge |
| LTG |  | Carex appressa | Tall Sedge |
| LNG |  | Phragmites australis | Common Reed |
| MTG |  | Carex gaudichaudiana | Fen Sedge |
| MTG |  | Juncus pauciflorus | Loose-flower Rush |
| MTG | v | Lipocarpha microcephala | Button Rush |
| MTG |  | Poa labillardierei | Common Tussock-grass |
| MNG |  | Isachne globosa | Swamp Millet |
| MNG |  | Microlaena stipoides var. stipoides | Weeping Grass |
| MNG |  | Cynodon dactylon | Couch |
| GF |  | Pteridium esculentum | Austral Bracken |
| EP |  | Amyema quandang var. quandang | Grey Mistletoe |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 19: Riparian Shrubland - Northern Inland Slopes bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  10% Cover  **Logs:**  10 m/0.1 ha (note: large log class does not apply)  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Ulex europaeus Gorse low high  MS Rubus fruticosus spp. agg. Blackberry high high  LH Hypericum perforatum St John's Wort high high LH Verbena bonariensis s.l. Purple-top Verbena high high  LH Carduus pycnocephalus Slender Thistle high high  LH Verbascum spp. Mullein high high  LH Opuntia spp. Prickly Pear high high  MH Acetosella vulgaris Sheep Sorrel high low  MH Galium divaricatum Slender Bedstraw high low  MH Hypochoeris glabra Smooth Cat's-ear high low MH Hypochoeris radicata Cat's Ear high low  MH Stellaria media Chickweed high low  MH Ranunculus repens Creeping Buttercup high high  MH Myosotis discolor Yellow-and-blue Forget-me-not high high  MH Anagallis arvensis Pimpernel high low  MH Trifolium spp. Clover high low  MH Centaurium spp. Centaury low low  SH Ludwigia palustris Marsh Ludwigia high high  LNG Holcus lanatus Yorkshire Fog high high  MTG Briza maxima Large Quaking-grass high low MTG Agrostis capillaris s.l. Brown-top Bent high high  MTG Bromus diandrus Great Brome high low  MTG Pentaschistis airoides ssp. airoides False Hair-grass high low MTG Vulpia bromoides Squirrel-tail Fescue high low  MTG Cyperus eragrostis Drain Flat-sedge high high  MNG Paspalum distichum Water Couch high high  MNG Bromus rubens Red Brome high low  MNG Aira elegantissima Delicate Hair-grass high low SC Asparagus asparagoides Bridal Creeper high high  Published by the Victorian Government Department of Sustainability and Environment May 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 20: Heathy Dry Forest

Description:

Open eucalypt forest to 20 m tall. Grows on shallow, rocky skeletal soils on a variety of geologies and on a range of landforms from gently undulating hills to exposed aspects on ridge tops and steep slopes at a range of elevations. The understorey is dominated by a low, sparse to dense layer of ericoid-leaved shrubs including heaths and peas. Graminoids and grasses are frequently present in the ground layer, but do not provide much cover.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species**  Eucalyptus spp. | **DBH(cm)**  60 cm | **#/ha**  20 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus macrorhyncha  Eucalyptus polyanthemos Eucalyptus goniocalyx s.s. | Red Stringybark  Red Box Bundy |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 6 | 20% | MS |
| Small Shrub | 6 | 20% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 7 | 15% | MH |
| Small or Prostrate Herb | 2 | 1% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 7 | 25% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Exocarpos cupressiformis | **Common Name**  Cherry Ballart |
| MS | Grevillea alpina | Cat's Claw Grevillea |
| MS | Brachyloma daphnoides | Daphne Heath |
| MS | Persoonia rigida | Hairy Geebung |
| SS | Hibbertia obtusifolia | Grey Guinea-flower |
| SS | Melichrus urceolatus | Urn Heath |
| SS | Hovea heterophylla | Common Hovea |
| SS | Dillwynia phylicoides | Small-leaf Parrot-pea |
| PS | Platylobium formosum | Handsome Flat-pea |
| PS | Acrotriche serrulata | Honey-pots |
| LH | Senecio tenuiflorus | Slender Fireweed |
| LH | Xerochrysum viscosum | Shiny Everlasting |
| LH | Wahlenbergia stricta | Tall Bluebell |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Helichrysum scorpioides | Button Everlasting |
| MH | Microseris scapigera spp. agg. | Yam Daisy |
| SH | Hydrocotyle laxiflora | Stinking Pennywort |
| MTG | Joycea pallida | Silvertop Wallaby-grass |
| MTG | Dianella revoluta s.l. | Black-anther Flax-lily |
| MTG | Lomandra filiformis | Wattle Mat-rush |
| MTG | Poa sieberiana | Grey Tussock-grass |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| SC | Thysanotus patersonii | Twining Fringe-lily |
| SC | Hardenbergia violacea | Purple Coral-pea |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 20: Heathy Dry Forest - Northern Inland Slopes bioregion | |
|  | **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 20 years.  **Organic Litter:**  20 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low MH Hypochoeris glabra Smooth Cat's-ear high low MH Anagallis arvensis Pimpernel high low  MTG Briza maxima Large Quaking-grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low MNG Aira elegantissima Delicate Hair-grass high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 21: Shrubby Dry Forest

Description:

Occurs on a range of geologies on exposed aspects such as ridge-lines and medium to steep upper slopes, often in high rainfall areas and on shallow infertile soils. The overstorey is an open forest to 25 m tall characterised by the diversity and variability of the eucalypts. The understorey often lacks a secondary tree layer but contains a well-developed medium to low shrub layer. The ground layer is often very sparse with tussock-forming graminoids being the dominant life form.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species**  Eucalyptus spp. | **DBH(cm)**  70 cm | **#/ha**  20 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus dives  Eucalyptus mannifera ssp. mannifera | Broad-leaved Peppermint  Brittle Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 8 | 15% | MS |
| Small Shrub | 3 | 5% | SS |
| Prostrate Shrub | 2 | 5% | PS |
| Large Herb | 2 | 1% | LH |
| Medium Herb | 7 | 5% | MH |
| Small or Prostrate Herb | 2 | 1% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Large Non-tufted Graminoid | 1 | 1% | LNG |
| Medium to Small Tufted Graminoid | 6 | 10% | MTG |
| Ground Fern | 2 | 5% | GF |
| Scrambler or Climber | 2 | 1% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **65%** |  |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 21: Shrubby Dry Forest – Northern Inland Slopes bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia dealbata Silver Wattle  T Exocarpos cupressiformis Cherry Ballart  MS Cassinia aculeata Common Cassinia  MS Daviesia latifolia Hop Bitter-pea  MS Daviesia ulicifolia Gorse Bitter-pea  MS Pultenaea juniperina s.l. Prickly Bush-pea  SS Hibbertia obtusifolia Grey Guinea-flower  SS Tetratheca ciliata Pink-bells  SS Hovea heterophylla Common Hovea  SS Olearia erubescens Moth Daisy-bush  PS Persoonia chamaepeuce Dwarf Geebung  PS Acrotriche serrulata Honey-pots  LH Senecio tenuiflorus Slender Fireweed  LH Senecio linearifolius Fireweed Groundsel  MH Gonocarpus tetragynus Common Raspwort  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Stellaria pungens Prickly Starwort  MH Asperula scoparia Prickly Woodruff  SH Hydrocotyle laxiflora Stinking Pennywort  LTG Lomandra longifolia Spiny-headed Mat-rush  MTG Joycea pallida Silvertop Wallaby-grass  MTG Poa sieberiana Grey Tussock-grass  MTG Dianella tasmanica Tasman Flax-lily  MTG Dianella revoluta s.l. Black-anther Flax-lily  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Pteridium esculentum Austral Bracken  SC Hardenbergia violacea Purple Coral-pea  SC Clematis aristata Mountain Clematis  **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 20 years.  **Organic Litter:**  20 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 22: Grassy Dry Forest

Description:

Occurs on a variety of gradients and altitudes and on a range of geologies. The overstorey is dominated by a low to medium height forest of eucalypts to 20 m tall, sometimes resembling an open woodland with a secondary, smaller tree layer including a number of Acacia species. The understorey usually consists of a sparse shrub layer of medium height. Grassy Dry Forest is characterised by a ground layer dominated by a high diversity of drought-tolerant grasses and herbs, often including a suite of fern species.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species** | **DBH(cm)** | **#/ha** |
| Eucalyptus spp.  Callitris spp. | 60 cm  40 cm | 20 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover**  30% | **Character Species**  Eucalyptus goniocalyx s.l. | **Common Name**  Bundy |
|  | Eucalyptus macrorhyncha | Red Stringybark |
|  | Eucalyptus polyanthemos | Red Box |
|  | Eucalyptus blakelyi | Blakely’s Red Gum |
|  | Callitris endlicheri | Black Cypress-pine |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 2 | 5% | T |
| Medium Shrub | 5 | 10% | MS |
| Small Shrub | 4 | 5% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 3 | 1% | LH |
| Medium Herb | 5 | 15% | MH |
| Small or Prostrate Herb | 2 | 1% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 8 | 25% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Ground Fern | 2 | 1% | GF |
| Scrambler or Climber | 1 | 1% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 22: Grassy Dry Forest - Northern Inland Slopes bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Exocarpos cupressiformis Cherry Ballart  T Acacia implexa Lightwood  MS Acacia dealbata Silver Wattle  MS Acacia verniciflua Varnish Wattle  MS Cassinia longifolia Shiny Cassinia  MS Cassinia aculeata Common Cassinia  SS Hibbertia obtusifolia Grey Guinea-flower  SS Hovea heterophylla Common Hovea  SS Hibbertia riparia Erect Guinea-flower  PS Acrotriche serrulata Honey-pots  LH Senecio quadridentatus Cotton Fireweed  MH Gonocarpus tetragynus Common Raspwort  MH Hypericum gramineum Small St John's Wort  MH Geranium solanderi s.l. Austral Cranesbill  MH Euchiton collinus s.l. Clustered/Creeping Cudweed  SH Hydrocotyle laxiflora Stinking Pennywort  MTG Joycea pallida Silvertop Wallaby-grass  MTG Poa sieberiana Grey Tussock-grass  MTG Lomandra filiformis Wattle Mat-rush  MTG Austrostipa scabra Rough Spear-grass  MTG Dianella revoluta s.l. Black-anther Flax-lily  MTG Themeda triandra Kangaroo Grass  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Cheilanthes austrotenuifolia Green Rock-fern  SC Hardenbergia violacea Purple Coral-pea  **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Hypericum perforatum St John's Wort high high  MH Hypochoeris radicata Cat's Ear high low  MH Anagallis arvensis Pimpernel high low MH Trifolium arvense var. arvense Hare's-foot Clover high low  MH Centaurium erythraea Common Centaury high low  MH Trifolium campestre var. campestre Hop Clover high low MH Cerastium glomeratum s.l. Common Mouse-ear Chickweed high low  LNG Holcus lanatus Yorkshire Fog high high  MTG Briza maxima Large Quaking-grass high low  MTG Briza minor Lesser Quaking-grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low MTG Anthoxanthum odoratum Sweet Vernal-grass high high  MNG Aira elegantissima Delicate Hair-grass high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 23: Herb-rich Foothill Forest

Description:

A medium to tall open forest to 30 m tall with a small tree layer over a sparse to dense shrub layer. Occurs on relatively fertile, moderately well-drained soils on an extremely wide range of geological types and in areas of moderate to high rainfall. Occupies easterly and southerly aspects mainly on lower slopes and in gullies. The understorey contains a high cover and diversity of herbs and grasses in the ground layer, which characterises this EVC.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species**  Eucalyptus spp. | **DBH(cm)**  70 cm | **#/ha**  20 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover**  40% | **Character Species**  Eucalyptus dives | **Common Name**  Broad-leaved Peppermint |
|  | Eucalyptus dalrympleana ssp. dalrympleana | Mountain Gum |
|  | Eucalyptus radiata s.l. | Narrow-leaf Peppermint |
|  | Eucalyptus obliqua | Messmate Stringybark |
|  | Eucalyptus globulus ssp. bicostata | Eurabbie |
|  | Eucalyptus mannifera ssp. mannifera | Brittle Gum |
|  | Eucalyptus rubida | Candlebark |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 3 | 10% | MS |
| Small Shrub | 3 | 5% | SS |
| Prostrate Shrub | 2 | 5% | PS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 13 | 25% | MH |
| Small or Prostrate Herb | 4 | 5% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Medium to Small Tufted Graminoid | 6 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Ground Fern | 1 | 5% | GF |
| Scrambler or Climber | 2 | 1% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 23: Herb-rich Foothill Forest - Northern Inland Slopes bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia dealbata Silver Wattle  MS Daviesia latifolia Hop Bitter-pea  MS Pimelea linifolia ssp. linifolia Slender Rice-flower  SS Hibbertia obtusifolia Grey Guinea-flower  SS Hovea heterophylla Common Hovea  SS Tetratheca ciliata Pink-bells  SS Olearia erubescens Moth Daisy-bush  PS Platylobium formosum Handsome Flat-pea  PS Acrotriche serrulata Honey-pots  PS Acrotriche prostrata Trailing Ground-berry  LH Wahlenbergia stricta Tall Bluebell  LH Senecio tenuiflorus Slender Fireweed  LH Pterostylis longifolia s.l. Tall Greenhood  MH Poranthera microphylla Small Poranthera  MH Gonocarpus tetragynus Common Raspwort  MH Drosera peltata ssp. auriculata Tall Sundew  MH Stackhousia monogyna Creamy Stackhousia  SH Hydrocotyle laxiflora Stinking Pennywort  SH Dichondra repens Kidney-weed  SH Cymbonotus preissianus Austral Bear's-ear  LTG Lomandra longifolia ssp. exilis Cluster-headed Mat-rush  MTG Luzula meridionalis var. flaccida Common Woodrush  MTG Poa sieberiana var. sieberiana Grey Tussock-grass  MTG Lomandra multiflora ssp. multiflora Many-flowered Mat-rush  MTG Stylidium graminifolium s.l. Grass Trigger-plant  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Pteridium esculentum Austral Bracken  SC Glycine clandestina Twining Glycine  SC Clematis aristata Mountain Clematis  **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low MH Centaurium erythraea Common Centaury high low  MH Anagallis arvensis Pimpernel high low  MH Cerastium glomeratum s.l. Common Mouse-ear Chickweed high low MTG Briza minor Lesser Quaking-grass high low  MTG Briza maxima Large Quaking-grass high low MNG Aira elegantissima Delicate Hair-grass high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 28: Rocky Outcrop Shrubland

Description:

Occurs in areas of low site quality on exposed rocky outcrops where rock is a dominant landform feature, soils are shallow or virtually absent and effective rainfall is low. Scattered, often stunted trees are occasionally present. A diverse shrub layer to 5 m tall characterises this EVC, including a number of rock-adapted species. The ground layer is usually sparse and species-poor except where it occurs in discrete patches and forms a mosaic with Rocky Outcrop Herbland.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life forms: Life form** Medium Shrub | **#Spp**  7 | **%Cover**  25% | **LF code**  MS |
| Small Shrub | 2 | 5% | SS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 5 | 5% | MH |
| Small or Prostrate Herb | 2 | 1% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Medium to Small Tufted Graminoid | 4 | 10% | MTG |
| Ground Fern | 2 | 5% | GF |
| Bryophytes/Lichens | na | 20% | BL |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **75%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Monotoca scoparia | **Common Name**  Prickly Broom-heath |
| MS | Hovea pannosa s.l. | Mountain Beauty |
| MS | Brachyloma daphnoides | Daphne Heath |
| MS | Persoonia confertiflora | Cluster-flower Geebung |
| SS | Hibbertia obtusifolia | Grey Guinea-flower |
| SS | Dillwynia phylicoides | Small-leaf Parrot-pea |
| SS | Rhytidosporum procumbens | White Marianth |
| SS | Acacia gunnii | Ploughshare Wattle |
| PS | Platylobium formosum | Handsome Flat-pea |
| PS | Persoonia chamaepeuce | Dwarf Geebung |
| LH | Senecio tenuiflorus | Slender Fireweed |
| LH | Derwentia perfoliata | Digger's Speedwell |
| LH | Wahlenbergia multicaulis | Branching Bluebell |
| LH | Chrysocephalum semipapposum | Clustered Everlasting |
| MH | Stellaria pungens | Prickly Starwort |
| MH | Helichrysum scorpioides | Button Everlasting |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Diuris sulphurea | Tiger Orchid |
| SH | Crassula sieberiana | Sieber Crassula |
| LTG | Lomandra longifolia | Spiny-headed Mat-rush |
| LTG | Austrodanthonia induta | Shiny Wallaby-grass |
| MTG | Dianella revoluta s.l. | Black-anther Flax-lily |
| MTG | Poa labillardierei | Common Tussock-grass |
| MTG | Joycea pallida | Silvertop Wallaby-grass |
| MTG | Lepidosperma laterale | Variable Sword-sedge |
| GF | Cheilanthes sieberi ssp. sieberi | Narrow Rock-fern |
| GF | Asplenium flabellifolium | Necklace Fern |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 28: Rocky Outcrop Shrubland - Northern Inland Slopes bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low MNG Vulpia myuros Rat's-tail Fescue high low  Published by the Victorian Government Department of Sustainability and Environment May 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 29: Damp Forest

Description:

Grows on a wide range of geologies on well-developed generally colluvial soils on a variety of aspects, from sea level to montane elevations. Typically in gullies and on protected slopes. Dominated by a tall eucalypt tree layer to 30 m tall over a medium to tall dense shrub layer of broad-leaved species typical of wet forest mixed with elements from dry forest types. The ground layer includes herbs and grasses as well as a variety of moisture-dependent ferns.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species**  Eucalyptus spp. | **DBH(cm)**  90 cm | **#/ha**  20 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 25% | Eucalyptus dalrympleana ssp. dalrympleana  Eucalyptus obliqua Eucalyptus viminalis | Mountain Gum  Messmate Stringybark Manna Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 4 | 10% | T |
| Medium Shrub | 3 | 5% | MS |
| Small Shrub | 1 | 1% | SS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 8 | 15% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Tufted Graminoid | 3 | 1% | LTG |
| Medium to Small Tufted Graminoid | 2 | 1% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Ground Fern | 7 | 20% | GF |
| Tree Fern | 2 | 50% | TRF |
| Scrambler or Climber | 3 | 5% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 29: Damp Forest - Northern Inland Slopes bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Bedfordia arborescens Blanket-leaf  T Lomatia fraseri Tree Lomatia  T Pomaderris aspera Hazel Pomaderris  MS Hedycarya angustifolia Austral Mulberry  MS Prostanthera lasianthos Victorian Christmas-bush  MS Coprosma quadrifida Prickly Currant-bush  SS Rubus parvifolius Small-leaf Bramble  LH Senecio minimus Shrubby Fireweed  MH Hydrocotyle hirta Hairy Pennywort  MH Stellaria pungens Prickly Starwort  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  SH Hypericum japonicum Matted St John's Wort  SH Hydrocotyle tripartita Slender Pennywort  LTG Cyperus lucidus Leafy Flat-sedge  LTG Carex appressa Tall Sedge  LTG Poa labillardierei var. labillardierei Common Tussock-grass  MTG Luzula meridionalis var. flaccida Common Woodrush  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Blechnum nudum Fishbone Water-fern  GF Pteridium esculentum Austral Bracken  GF Polystichum proliferum Mother Shield-fern  GF Blechnum minus Soft Water-fern  TRF Todea barbara Austral King-fern  TRF Dicksonia antarctica Soft Tree-fern  SC Rubus rosifolius var. rosifolius Rose-leaf Bramble  SC Parsonsia brownii Twining Silkpod  SC Clematis aristata Mountain Clematis  **Recruitment:**  Continuous  **Organic Litter:**  50 % cover  **Logs:**  30 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Rosa rubiginosa Sweet Briar high high  LH Cirsium vulgare Spear Thistle high high  MH Hypochoeris radicata Cat's Ear high low MH Cerastium vulgare Common Mouse-ear Chickweed high low  MH Prunella vulgaris Self-heal high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 30: Wet Forest

Description:

Grows on fertile, well-drained loamy soils on a range of geologies and elevation levels. It is largely restricted to protected sites in gullies and on southern aspects of hills and mountains where rainfall is high and cloud cover at ground level is frequent. Characterised by a tall eucalypt overstorey to 30 m tall with scattered understorey trees over a tall broad-leaved shrubby understorey and a moist, shaded, fern-rich ground layer that is usually dominated by tree-ferns.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species**  Eucalyptus spp. | **DBH(cm)**  90 cm | **#/ha**  20 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Eucalyptus dalrympleana ssp. dalrympleana | Mountain Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 4 | 30% | T |
| Medium Shrub | 6 | 20% | MS |
| Small Shrub | 1 | 1% | SS |
| Large Herb | 2 | 1% | LH |
| Medium Herb | 5 | 10% | MH |
| Small or Prostrate Herb | 2 | 1% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Large Non-tufted Graminoid | 1 | 10% | LNG |
| Medium to Small Tufted Graminoid | 1 | 5% | MTG |
| Ground Fern | 4 | 20% | GF |
| Tree Fern | 2 | 10% | TRF |
| Scrambler or Climber | 2 | 5% | SC |
| Bryophytes/Lichens | na | 20% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia dealbata | **Common Name**  Silver Wattle |
| T | Pomaderris aspera | Hazel Pomaderris |
| T | Olearia argophylla | Musk Daisy-bush |
| MS | Coprosma quadrifida | Prickly Currant-bush |
| MS | Olearia phlogopappa | Dusty Daisy-bush |
| MS | Cassinia aculeata | Common Cassinia |
| MS | Correa lawrenceana | Mountain Correa |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| MH | Hydrocotyle hirta | Hairy Pennywort |
| MH | Sambucus gaudichaudiana | White Elderberry |
| MH | Geranium potentilloides | Cinquefoil Cranesbill |
| SH | Leptostigma reptans | Dwarf Nertera |
| LTG | Lepidosperma elatius | Tall Sword-sedge |
| LNG | Tetrarrhena juncea | Forest Wire-grass |
| GF | Pteridium esculentum | Austral Bracken |
| GF | Polystichum proliferum | Mother Shield-fern |
| GF | Histiopteris incisa | Bat's Wing Fern |
| GF | Blechnum wattsii | Hard Water-fern |
| TRF | Dicksonia antarctica | Soft Tree-fern |
| TRF | Cyathea australis | Rough Tree-fern |
| SC | Clematis aristata | Mountain Clematis |
| SC | Billardiera longiflora var. longiflora | Purple Apple-berry |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 30: Wet Forest - Northern Inland Slopes bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  50 % cover  **Logs:**  30 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low  Published by the Victorian Government Department of Sustainability and Environment December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 36: Montane Dry Woodland

Description:

Occurs on dry and exposed mid to upper slopes at montane elevations, often extending onto ridges in high rainfall areas. Effective rainfall may be enhanced by cold air drainage, low cloud cover and in some cases, persistent snow cover. Open forest to open woodland to 15 m tall, according to altitude, precipitation and frequency of fire. The shrubby understorey is an unusual combination of species, which tolerate exposed montane conditions and species which enjoy the increased moisture available from cloud and fog drip.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species**  Eucalyptus spp. | **DBH(cm)**  50 cm | **#/ha**  15 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 20% | Eucalyptus dives  Eucalyptus rubida Eucalyptus radiata | Broad-leaved Peppermint  Candlebark  Narrow-leaved Peppermint |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 2 | 20% | T |
| Medium Shrub | 5 | 20% | MS |
| Small Shrub | 2 | 5% | SS |
| Prostrate Shrub | 2 | 5% | PS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 9 | 15% | MH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Medium to Small Tufted Graminoid | 6 | 15% | MTG |
| Ground Fern | 1 | 5% | GF |
| Scrambler or Climber | 2 | 1% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 36: Montane Dry Woodland - Northern Inland Slopes bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia dealbata Silver Wattle  T Acacia obliquinervia Mountain Hickory Wattle  MS Coprosma hirtella Rough Coprosma  MS Cassinia aculeata Common Cassinia  MS Pultenaea juniperina s.l. Prickly Bush-pea  MS Polyscias sambucifolia Elderberry Panax  SS Olearia erubescens Moth Daisy-bush  SS Tetratheca ciliata Pink-bells  SS Hibbertia obtusifolia Grey Guinea-flower  PS Platylobium formosum Handsome Flat-pea  PS Persoonia chamaepeuce Dwarf Geebung  PS Acrotriche serrulata Honey-pots  LH Senecio tenuiflorus Slender Fireweed  LH Wahlenbergia stricta Tall Bluebell  LH Arthropodium milleflorum s.l. Pale Vanilla-lily  LH Derwentia derwentiana Derwent Speedwell  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Gonocarpus tetragynus Common Raspwort  MH Stellaria pungens Prickly Starwort  MH Viola betonicifolia ssp. betonicifolia Showy Violet  LTG Lomandra longifolia Spiny-headed Mat-rush  MTG Stylidium graminifolium s.l. Grass Trigger-plant  MTG Dianella tasmanica Tasman Flax-lily  MTG Poa sieberiana Grey Tussock-grass  MTG Luzula meridionalis Common Woodrush  GF Pteridium esculentum Austral Bracken  GF Polystichum proliferum Mother Shield-fern  SC Clematis aristata Mountain Clematis  **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low  Published by the Victorian Government Department of Sustainability and Environment December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 38: Montane Damp Forest

Description:

Grows on a wide range of geologies on well-developed generally colluvial soils on a variety of aspects at montane elevations. Dominated by a tall eucalypt tree layer to 30 m tall over a medium to tall dense shrub layer of broad-leaved species typical of wet forest mixed with elements from dry forest types. The ground layer includes herbs and grasses as well as a variety of moisture-dependent ferns.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species**  Eucalyptus spp. | **DBH(cm)**  90 cm | **#/ha**  20 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Eucalyptus delegatensis ssp. delegatensis  Eucalyptus radiata s.l.  Eucalyptus rubida | Alpine Ash  Narrow-leaf Peppermint Candlebark |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 3 | 15% | T |
| Medium Shrub | 7 | 20% | MS |
| Small Shrub | 2 | 1% | SS |
| Prostrate Shrub | 1 | 5% | PS |
| Large Herb | 4 | 5% | LH |
| Medium Herb | 12 | 20% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 6 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 5% | MNG |
| Ground Fern | 2 | 15% | GF |
| Scrambler or Climber | 2 | 5% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 38: Montane Damp Forest – Northern Inland Slopes bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia dealbata Silver Wattle  MS Cassinia aculeata Common Cassinia  MS Coprosma hirtella Rough Coprosma  MS Coprosma quadrifida Prickly Currant-bush  MS Polyscias sambucifolia Elderberry Panax  SS Olearia erubescens Moth Daisy-bush  PS Platylobium formosum Handsome Flat-pea  LH Derwentia derwentiana Derwent Speedwell  LH Senecio linearifolius Fireweed Groundsel  LH Picris angustifolia Native Picris  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Stellaria pungens Prickly Starwort  MH Acaena novae-zelandiae Bidgee-widgee  MH Lagenophora stipitata Common Bottle-daisy  SH Chiloglottis gunnii s.l. Common Bird-orchid  SH Leptinella filicula Mountain Cotula  SH Hydrocotyle laxiflora Stinking Pennywort  LTG Lomandra longifolia Spiny-headed Mat-rush  MTG Dianella tasmanica Tasman Flax-lily  MTG Poa ensiformis Sword Tussock-grass  MTG Poa sieberiana Grey Tussock-grass  MTG Stylidium graminifolium s.l. Grass Trigger-plant  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Deyeuxia rodwayi Tasman Bent-grass  GF Pteridium esculentum Austral Bracken  GF Polystichum proliferum Mother Shield-fern  SC Clematis aristata Mountain Clematis  **Recruitment:**  Continuous.  **Organic Litter:**  50 % cover  **Logs:**  30 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Cirsium vulgare Spear Thistle high high MH Hypochoeris radicata Cat's Ear high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 47: Valley Grassy Forest

Description:

Valley Grassy Forest occurs under moderate rainfall regimes of 700-800 mm per annum on fertile well-drained colluvial or alluvial soils on gently undulating lower slopes and valley floors. Open forest to 20 m tall that may contain a variety of eucalypts, usually species which prefer more moist or more fertile conditions over a sparse shrub cover. In season, a rich array of herbs, lilies, grasses and sedges dominate the ground layer but at the drier end of the spectrum the ground layer may be sparse and slightly less diverse, but with the moisture-loving species still remaining.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species**  Eucalyptus spp. | **DBH(cm)**  70 cm | **#/ha**  20 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover**  20% | **Character Species**  Eucalyptus blakelyi | **Common Name**  Blakely's Red-gum |
|  | Eucalyptus macrorhyncha | Red Stringybark |
|  | Eucalyptus melliodora | Yellow Box |
|  | Eucalyptus albens | White Box |
|  | Eucalyptus rubida | Candlebark |
|  | Eucalyptus bridgesiana | But But |
|  | Eucalyptus polyanthemos | Red Box |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 3 | 10% | T |
| Medium Shrub | 3 | 10% | MS |
| Small Shrub | 3 | 5% | SS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 8 | 20% | MH |
| Small or Prostrate Herb | 3 | 1% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 12 | 25% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 5% | MNG |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 47: Valley Grassy Forest - Northern Inland Slopes bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia dealbata Silver Wattle  T Acacia melanoxylon Blackwood  T Exocarpos cupressiformis Cherry Ballart  MS Cassinia aculeata Dogwood  MS Dodonaea viscosa ssp. angustissima Narrow-leaf Hop-bush  MS Indigofera australis Austral Indigo  SS Hibbertia riparia Erect Guinea-flower  SS Hibbertia obtusifolia Grey Guinea-flower  SS Platylobium formosum Handsome Flat-pea  LH Senecio quadridentatus Cotton Fireweed  LH Wahlenbergia stricta Tall Bluebell  MH Gonocarpus tetragynus Common Raspwort  MH Hypericum gramineum Small St John's Wort  MH Geranium solanderi s.l. Austral Cranesbill  SH Hydrocotyle laxiflora Stinking Pennywort  SH Desmodium varians Slender Tick-trfoil  MTG Lomandra filiformis Wattle Mat-rush  MTG Dianella revoluta s.l. Black-anther Flax-lily  MTG Schoenus apogon Common Bog-sedge  MTG Arthropodium strictum s.l. Chocolate Lily  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Cheilanthes austrotenuifolia Green Rock-fern  SC Hardenbergia violacea Purple Coral-pea  SC Glycine clandestina Twining Glycine  **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Hypericum perforatum St John's Wort high high  LH Sonchus asper s.l. Rough Sow-thistle high low  LH Cirsium vulgare Spear Thistle high low  MH Hypochoeris radicata Cat's Ear high low  MH Anagallis arvensis Pimpernel high low  MH Hypochoeris glabra Smooth Cat's-ear high low  LNG Holcus lanatus Yorkshire Fog high high  MTG Briza maxima Large Quaking-grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low  MTG Briza minor Lesser Quaking-grass high low MTG Bromus hordeaceus ssp. hordeaceus Soft Brome high low  MTG Phalaris aquatica Toowoomba Canary-grass high high  Published by the Victorian Government Department of Sustainability and Environment May 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 55: Plains Grassy Woodland

Description:

An open, eucalypt woodland to 15 m tall occurring on a number of geologies and soil types. Occupies poorly drained, fertile soils on flat or gently undulating plains at low elevations. The understorey consists of a few sparse shrubs over a species-rich grassy and herbaceous ground layer. Occurred extensively in the past but has been mainly cleared for agriculture, resulting in few intact remnants remaining.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species** | **DBH(cm)** | **#/ha** |
| Eucalyptus spp.  Callitris spp. | 80 cm  50 cm | 15 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Callitris glaucophylla  Eucalyptus microcarpa Eucalyptus melliodora  Eucalyptus bridgesiana s.l. | White Cypress-pine  Grey Box Yellow Box But But |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 2 | 10% | MS |
| Small Shrub | 1 | 1% | SS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 15 | 40% | MH |
| Small or Prostrate Herb | 5 | 10% | SH |
| Medium to Small Tufted Graminoid | 8 | 30% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Ground Fern | 1 | 1% | GF |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Acacia acinacea s.l. | **Common Name**  Gold-dust Wattle |
| MS | Acacia paradoxa | Hedge Wattle |
| SS | Pimelea curviflora s.l. | Curved Rice-flower |
| SS | Dillwynia cinerascens s.l. | Grey Parrot-pea |
| LH | Senecio quadridentatus | Cotton Fireweed |
| LH | Wahlenbergia luteola | Yellowish Bluebell |
| MH | Chrysocephalum apiculatum s.l. | Common Everlasting |
| MH | Leptorhynchos squamatus | Scaly Buttons |
| MH | Stuartina muelleri | Spoon Cudweed |
| MH | Gonocarpus tetragynus | Common Raspwort |
| SH | Triptilodiscus pygmaeus | Common Sunray |
| SH | Actinobole uliginosum | Flannel Cudweed |
| SH | Calotis hispidula | Hairy Burr-daisy |
| SH | Ptilotus spathulatus f. spathulatus | Pussy Tails |
| MTG | Austrostipa scabra | Rough Spear-grass |
| MTG | Austrodanthonia pilosa | Velvet Wallaby-grass |
| MTG | Austrodanthonia caespitosa | Common Wallaby-grass |
| MTG | Themeda triandra | Kangaroo Grass |
| SC | Thysanotus patersonii | Twining Fringe-lily |
| SC | Glycine clandestina | Twining Glycine |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 55: Plains Grassy Woodland - Northern Inland Slopes bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  10 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Sonchus oleraceus Common Sow-thistle high low MH Trifolium arvense var. arvense Hare's-foot Clover high low  MH Hypochoeris glabra Smooth Cat's-ear high low  MH Arctotheca calendula Cape Weed high low MH Trifolium campestre var. campestre Hop Clover high low  MH Trifolium angustifolium var. angustifolium Narrow-leaf Clover high low MH Parentucellia latifolia Red Bartsia high low  MH Petrorhagia nanteuilii Childling Pink high low SH Trifolium tomentosum var. tomentosum Woolly Clover high low MTG Bromus hordeaceus ssp. hordeaceus Soft Brome high low  MTG Phalaris minor Lesser Canary-grass high low  MNG Bromus rubens Red Brome high low  MNG Aira elegantissima Delicate Hair-grass high low  MNG Vulpia myuros Rat's-tail Fescue high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 56: Floodplain Riparian Woodland

Description:

An open woodland to 20 m tall usually dominated by Red Gum Eucalyptus spp. over a medium to tall shrub layer with a ground layer consisting of amphibious and aquatic herbs and sedges. Occurs along the banks and floodplains of the larger meandering rivers and major creeks, often in conjunction with one or more floodplain wetland communities. Elevation and rainfall are

relatively low and soils are fertile alluviums subject to periodic flooding and inundation.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species**  Eucalyptus spp. | **DBH(cm)**  80 cm | **#/ha**  15 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus camaldulensis | River Red-gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 6 | 15% | MS |
| Small Shrub | 1 | 1% | SS |
| Large Herb | 4 | 10% | LH |
| Medium Herb | 4 | 10% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Large Non-tufted Graminoid | 2 | 10% | LNG |
| Medium to Small Tufted Graminoid | 4 | 15% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 10% | MNG |
| Ground Fern | 1 | 5% | GF |
| Scrambler or Climber | 1 | 5% | SC |
| Bryophytes/Lichens | na | 10% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia dealbata | **Common Name**  Silver Wattle |
| MS | Hymenanthera dentata s.l. | Tree Violet |
| MS | Cassinia aculeata | Common Cassinia |
| MS | Kunzea ericoides | Burgan |
| SS | Rubus parvifolius | Small-leaf Bramble |
| MH | Acaena novae-zelandiae | Bidgee-widgee |
| SH | Hydrocotyle laxiflora | Stinking Pennywort |
| LTG | Carex appressa | Tall Sedge |
| LNG | Phragmites australis | Common Reed |
| MTG | Juncus amabilis | Hollow Rush |
| MTG | Poa labillardierei | Common Tussock-grass |
| MTG | Cyperus lhotskyanus | Creeping Flat-sedge |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| MNG | Distichlis distichophylla | Australian Salt-grass |
| GF | Pteridium esculentum | Austral Bracken |
| EP | Muellerina eucalyptoides | Creeping Mistletoe |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 56: Floodplain Riparian Woodland - Northern Inland Slopes bioregion | |
|  | **Recruitment:**  Episodic/Flood. Desirable period between disturbances is 10 years.  **Organic Litter:**  40 % cover  **Logs:**  30 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  T Pinus radiata Radiata Pine low high  T Crataegus monogyna Hawthorn low high  MS Rosa rubiginosa Sweet Briar low high  MS Ulex europaeus Gorse low high  MS Rubus fruticosus spp. agg. Blackberry high high  LH Foeniculum vulgare Fennel high high LH Verbena bonariensis s.l. Purple-top Verbena high high  LH Cirsium vulgare Spear Thistle high high  LH Sonchus oleraceus Common Sow-thistle high low  LH Plantago lanceolata Ribwort high low  LH Rumex crispus Curled Dock high low  LH Sonchus asper s.l. Rough Sow-thistle high low LH Solanum nigrum sensu Willis (1972) Black Nightshade high low  LH Silybum marianum Variegated Thistle high high  LH Rorippa palustris Marsh Yellow-cress high high  MH Hypochoeris radicata Cat's Ear high low  MH Acetosella vulgaris Sheep Sorrel high high  MH Trifolium dubium Suckling Clover high low MH Trifolium subterraneum Subterranean Clover high low MH Cerastium glomeratum s.l. Common Mouse-ear Chickweed high low  MH Prunella vulgaris Self-heal high low  MH Anagallis arvensis Pimpernel high low  SH Trifolium repens var. repens White Clover high low SH Polygonum aviculare s.l. Prostrate Knotweed high low  SH Callitriche stagnalis Common Starwort high high  LTG Phalaris aquatica Toowoomba Canary-grass high high  LNG Holcus lanatus Yorkshire Fog high high  MTG Lolium multiflorum Italian Rye-grass high low  MTG Cyperus eragrostis Drain Flat-sedge high high MTG Bromus hordeaceus ssp. hordeaceus Soft Brome high low  MTG Lolium perenne Perennial Rye-grass high high  MTG Vulpia bromoides Squirrel-tail Fescue high low  MTG Critesion murinum Barley-grass high low  MTG Poa annua Annual Meadow-grass high low  MTG Bromus diandrus Great Brome high low  MTG Bromus catharticus Prairie Grass high low  MTG Dactylis glomerata Cocksfoot high high  MNG Paspalum distichum Water Couch high high  SC Galium aparine Cleavers high low  SC Vicia sativa Common Vetch high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 61: Box Ironbark Forest

Description:

Occurs in low rainfall areas on gently undulating rises, low hills and peneplains on infertile, often stony soils derived from a range of geologies. Open eucalypt forest to 20 m tall, often including one of the Ironbark species. The mid storey often forms a dense to open small tree or shrub layer over an open ground layer ranging from a sparse to well-developed suite of herbs and grasses.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species**  Eucalyptus spp. | **DBH(cm)**  70 cm | **#/ha**  15 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | r Eucalyptus sideroxylon s.s.  Eucalyptus macrorhyncha Eucalyptus polyanthemos  Eucalyptus microcarpa | Mugga  Red Stringybark Red Box  Grey Box |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Medium Shrub | 5 | 10% | MS |
| Small Shrub | 5 | 15% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 6 | 15% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 8 | 20% | MTG |
| Scrambler or Climber | 1 | 1% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **85%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Acacia pycnantha | **Common Name**  Golden Wattle |
| MS | Grevillea alpina | Cat's Claw Grevillea |
| MS | Cassinia arcuata | Drooping Cassinia |
| MS | Daviesia leptophylla | Narrow-leaf Bitter-pea |
| SS | Hibbertia riparia | Erect Guinea-flower |
| SS | Hibbertia obtusifolia | Grey Guinea-flower |
| SS | Dillwynia sericea s.l. | Showy Parrot-pea |
| PS | Acrotriche serrulata | Honey-pots |
| PS | Astroloma humifusum | Cranberry Heath |
| LH | Xerochrysum bracteatum | Golden Everlasting |
| LH | Senecio tenuiflorus | Slender Fireweed |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Goodenia hederacea | Ivy Goodenia |
| MH | Drosera peltata ssp. auriculata | Tall Sundew |
| SH | Hydrocotyle laxiflora | Stinking Pennywort |
| MTG | Lomandra filiformis | Wattle Mat-rush |
| MTG | Poa sieberiana | Grey Tussock-grass |
| MTG | Dianella revoluta s.l. | Black-anther Flax-lily |
| MTG | Austrostipa scabra | Rough Spear-grass |
| EP | Amyema miquelii | Box Mistletoe |
| SC | Hardenbergia violacea | Purple Coral-pea |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 61: Box Ironbark Forest - Northern Inland Slopes bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low MH Hypochoeris glabra Smooth Cat's-ear high low MTG Briza maxima Large Quaking-grass high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 67: Alluvial Terraces Herb-rich Woodland

Description:

Open woodland to 15 m tall on broad alluvial plains and along ephemeral drainage lines. Soils are generally poorly drained duplex soils with sandy loam overlying a heavier clay subsoil. Understorey consists of few, if any shrubs with the striking feature of this EVC being the high species-richness of the ground-layer and the low biomass of this cover, particularly in summer.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species**  Eucalyptus spp. | **DBH(cm)**  70 cm | **#/ha**  15 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus microcarpa  Eucalyptus melliodora Eucalyptus albens | Grey Box  Yellow Box White Box |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 3 | 5% | MS |
| Small Shrub | 2 | 5% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 7 | 25% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 9 | 20% | MTG |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **85%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Brachychiton populneus ssp. populneus | **Common Name**  Kurrajong |
| T | Acacia dealbata | Silver Wattle |
| MS | Cassinia arcuata | Drooping Cassinia |
| MS | Acacia pycnantha | Golden Wattle |
| MS | Acacia verniciflua | Varnish Wattle |
| MS | Bursaria spinosa ssp. spinosa | Sweet Bursaria |
| SS | Pultenaea humilis | Dwarf Bush-pea |
| SS | Hibbertia exutiacies | Spiky Guinea-flower |
| PS | Astroloma humifusum | Cranberry Heath |
| LH | Senecio tenuiflorus | Slender Fireweed |
| MH | Lagenophora huegelii | Coarse Bottle-daisy |
| MH | Stackhousia monogyna | Creamy Stackhousia |
| MH | Rumex brownii | Slender Dock |
| SH | Hydrocotyle laxiflora | Stinking Pennywort |
| MTG | Schoenus apogon | Common Bog-sedge |
| MTG | Poa sieberiana var. sieberiana | Grey Tussock-grass |
| MTG | Lomandra multiflora ssp. multiflora | Many-flowered Mat-rush |
| MTG | Tricoryne elatior | Yellow Rush-lily |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| EP | Amyema miquelii | Box Mistletoe |
| SC | Thysanotus patersonii | Twining Fringe-lily |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 67: Alluvial Terraces Herb-rich Woodland - Northern Inland Slopes bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  10 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Sonchus oleraceus Common Sow-thistle high low MH Hypochoeris radicata Cat's Ear high low  MH Centaurium spp. Centaury high low  MTG Briza maxima Large Quaking-grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low  MNG Bromus rubens Red Brome high low  MNG Vulpia spp. Fescue high low  Published by the Victorian Government Department of Sustainability and Environment May 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 68: Creekline Grassy Woodland

Description:

Eucalypt-dominated woodland to 15 m tall with occasional scattered shrub layer over a mostly grassy/sedgy to herbaceous ground-layer. Occurs on low-gradient ephemeral to intermittent drainage lines, typically on fertile colluvial/alluvial soils, on a wide range of suitably fertile geological substrates. These minor drainage lines can include a range of graminoid and herbaceous species tolerant of waterlogged soils, and are presumed to have sometimes resembled a linear wetland or system of interconnected small ponds.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species**  Eucalyptus spp. | **DBH(cm)**  80 cm | **#/ha**  15 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus camaldulensis | River Red-gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understroey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 4 | 10% | MS |
| Small Shrub | 3 | 5% | SS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 9 | 15% | MH |
| Small Herb\* | 3 | 5% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 16 | 35% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 5% | MNG |
| Bryophytes/Lichens | na | 10% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia dealbata | **Common Name**  Silver Wattle |
| T | Acacia melanoxylon | Blackwood |
| MS | Acacia pycnantha | Golden Wattle |
| MS | Melaleuca parvistaminea | Rough-barked Haoney-myrtle |
| MS | Acacia retinodes var. retinodes | Wilrilda |
| SS | Pimelea humilis | Common Rice-flower |
| PS | Astroloma humifusum | Cranberry Heath |
| LH | Senecio tenuiflorus | Slender Fireweed |
| LH | Senecio quadridentatus | Cottony Fireweed |
| MH | Centipeda cunninghamii | Common Sneezeweed |
| MH | Hypericum gramineum | Small St John's Wort |
| SH | Dichondra repens | Kidneyweed |
| LTG | Carex appressa | Tall Sedge |
| LNG | Phragmites australis | Common Reed |
| MTG | Elymus scaber var. scaber | Common Wheat-grass |
| MTG | Poa labillardierei | Common Tussock-grass |
| MTG | Juncus spp. | Rush |
| MTG | Cyperus spp. | Flat-sedge |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 68: Creekline Grassy Woodland - Northern Inland Slopes bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Logs:**  30 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Cirsium vulgare Spear Thistle high high  LH Sonchus oleraceus Common Sow-thistle high low  MH Hypochoeris radicata Cat's Ear high low  MH Anagallis arvensis Pimpernel high low  MH Hypochoeris glabra Smooth Cat's-ear high low  MH Galium murale Small Goosegrass high low  MH Oxalis pes-caprae Soursob high high  LTG Juncus acutus Spiny Rush high high  LTG Phalaris aquatica Toowoomba Canary-grass high high  MTG Briza maxima Large Quaking-grass high low  MTG Briza minor Lesser Quaking-grass high low  MTG Romulea rosea Onion Grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low MTG Bromus hordeaceus ssp. hordeaceus Soft Brome high low  MNG Aira elegantissima Delicate Hair-grass high low  MNG Vulpia muralis Wall Fescue high low  MNG Bromus madritensis Madrid Brome high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 72: Granitic Hills Woodland

Description:

Mainly restricted to granite rocky outcrops and structurally consists of a low woodland to 10 m high with the dominant trees often being stunted.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species** | **DBH(cm)** | **#/ha** |
| Eucalyptus spp.  Callitris spp. | 50 cm  30 cm | 15 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover**  15% | **Character Species**  Eucalyptus blakelyi | **Common Name**  Blakely's Red-gum |
|  | Eucalyptus macrorhyncha | Red Stringybark |
|  | Eucalyptus goniocalyx s.l. | Bundy |
|  | Callitris endlicheri | Black Cypress-pine |
|  | Callitris glaucophylla | White Cypress-pine |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Medium Shrub | 7 | 20% | MS |
| Small Shrub | 3 | 5% | SS |
| Large Herb | 4 | 5% | LH |
| Medium Herb | 11 | 15% | MH |
| Small or Prostrate Herb | 2 | 1% | SH |
| Medium to Small Tufted Graminoid | 6 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 1% | MNG |
| Ground Fern | 2 | 1% | GF |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **65%** |  |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 72: Granitic Hills Woodland - Northern Inland Slopes bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Allocasuarina verticillata Drooping Sheoak  MS Acacia buxifolia ssp. buxifolia Box-leaf Wattle  MS Calytrix tetragona Common Fringe-myrtle  MS Persoonia rigida Hairy Geebung  MS Brachyloma daphnoides Daphne Heath  MS Acacia verniciflua Varnish Wattle  SS Hibbertia riparia Erect Guinea-flower  SS Hibbertia obtusifolia Grey Guinea-flower  SS Pultenaea procumbens Heathy Bush-pea  PS Astroloma humifusum Cranberry Heath  LH Xerochrysum viscosum Shiny Everlasting  LH Stypandra glauca Nodding Blue-lily  LH Senecio tenuiflorus Slender Fireweed  LH Senecio quadridentatus Cotton Fireweed  MH Gonocarpus tetragynus Common Raspwort  MH Gonocarpus elatus Tall Raspwort  MH Geranium solanderi s.l. Austral Cranesbill  SH Hydrocotyle laxiflora Stinking Pennywort  MTG Lepidosperma laterale Variable Sword-sedge  MTG Lomandra filiformis Wattle Mat-rush  MTG Dianella revoluta s.l. Black-anther Flax-lily  GF Cheilanthes austrotenuifolia Green Rock-fern  SC Thysanotus patersonii Twining Fringe-lily  SC Glycine clandestina Twining Glycine  **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low  MH Hypochoeris glabra Smooth Cat's-ear high low MH Cerastium glomeratum s.l. Common Mouse-ear Chickweed high low MH Galium murale Small Goosegrass high low  MH Galium divaricatum Slender Bedstraw high low  MH Petrorhagia velutina Velvety Pink high low  MH Centaurium spp. Centaury high low MTG Vulpia bromoides Squirrel-tail Fescue high low  MTG Briza minor Lesser Quaking-grass high low  MTG Briza maxima Large Quaking-grass high low MNG Aira elegantissima Delicate Hair-grass high low  Published by the Victorian Government Department of Sustainability and Environment January 2007  © The State of Victoria Department of Sustainability and Environment 2007  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 80: Spring Soak Woodland

Description:

Woodland to 10 m tall with an understorey dominated by medium and small herbs and occasional shrubs. Generally occurring on granitic-outwash soils and dependent on the continual availability of a reliable water supply.

Large trees:

|  |  |  |
| --- | --- | --- |
| **Species** | **DBH(cm)** | **#/ha** |
| Eucalyptus spp. | 50 cm | 5 / ha |

**Tree Canopy Cover:**

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 10% | Eucalyptus blakelyi  Eucalyptus bridgesiana s.s. | Blakely’s Red-gum  But But |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Medium Shrub | 2 | 5% | MS |
| Large Herb | 2 | 1% | LH |
| Medium Herb | 6 | 10% | MH |
| Small or Prostrate Herb | 3 | 10% | SH |
| Large Tufted Graminoid | 2 | 10% | LTG |
| Large Non-tufted Graminoid | 3 | 5% | LNG |
| Medium to Small Tufted Graminoid | 9 | 35% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 5% | MNG |
| Bryophytes/Lichens | na | 20% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Acacia dealbata | **Common Name**  Silver Wattle |
| MS | Mirbelia oxylobioides | Mountain Mirbelia |
| MS | Leptospermum continentale | Prickly Tea-tree |
| LH | Senecio minimus | Shrubby Fireweed |
| MH | Ranunculus sessiliflorus var. sessiliflorus | Annual Buttercup |
| SH | Hydrocotyle hirta | Hairy Pennywort |
| SH | Hypericum japonicum | Matted St John's Wort |
| SH | Gonocarpus micranthus ssp. micranthus | Creeping Raspwort |
| LTG | Juncus sarophorus | Broom Rush |
| LTG | Carex appressa | Tall Sedge |
| LNG | Baumea rubiginosa s.s. | Soft Twig-sedge |
| LNG | Phragmites australis | Common Reed |
| MTG | Juncus fockei | Slender Joint-leaf Rush |
| MTG | Poa labillardierei var. labillardierei | Common Tussock-grass |
| MTG | Juncus holoschoenus | Joint-leaf Rush |
| MTG | Luzula meridionalis var. flaccida | Common Woodrush |
| MNG | Eleocharis gracilis | Slender Spike-sedge |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 80: Spring Soak Woodland - Northern Inland Slopes bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  5 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Sonchus asper s.l. Rough Sow-thistle high low LH Hypericum perforatum St John's Wort high high MH Hypochoeris radicata Cat's Ear high low  MH Anagallis arvensis Pimpernel high low  MH Centaurium spp. Centaury high low  LNG Holcus lanatus Yorkshire Fog high high  MTG Briza maxima Large Quaking-grass high low  MTG Briza minor Lesser Quaking-grass high low  TTG Cyperus tenellus Tiny Flat-sedge high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 82: Riverine Escarpment Scrub

Description:

Shrubland to 10 m tall with occasional emergent eucalypts. Occurs on shallow colluvial soils along rocky cliffs and slopes associated with rivers and creeks and may extend onto alluvial terraces. Characterised by a dense medium to tall shrub layer over a ground layer which can range from low to high diversity and consist of a variety of graminoids and herbs. Ferns can often be a major component of the ground stratum.

Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Acacia melanoxylon  Pomaderris aspera Acacia dealbata | Blackwood  Hazel Pomaderris Silver Wattle |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Shrub | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Medium Shrub | 8 | 30% | MS |
| Small Shrub | 1 | 1% | SS |
| Prostrate Shrub | 2 | 1% | PS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 12 | 20% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Large Tufted Graminoid | 3 | 10% | LTG |
| Medium to Small Tufted Graminoid | 4 | 15% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Ground Fern | 3 | 10% | GF |
| Scrambler or Climber | 1 | 5% | SC |
| Bryophytes/Lichens | na | 10% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Coprosma quadrifida | **Common Name**  Prickly Currant-bush |
| MS | Lomatia myricoides | River Lomatia |
| MS | Leptospermum brevipes | Slender Tea-tree |
| MS | Kunzea ericoides | Burgan |
| SS | Leucopogon hookeri | Mountain Beard-heath |
| PS | Platylobium formosum | Handsome Flat-pea |
| PS | Acrotriche serrulata | Honey-pots |
| LH | Epilobium billardierianum ssp. hydrophilum | Robust Willow-herb |
| LH | Senecio tenuiflorus | Slender Fireweed |
| MH | Ajuga australis | Austral Bugle |
| MH | Acaena novae-zelandiae | Bidgee-widgee |
| MH | Lagenophora stipitata | Common Bottle-daisy |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| SH | Dichondra repens | Kidney-weed |
| SH | Hydrocotyle laxiflora | Stinking Pennywort |
| LTG | Cyperus lucidus | Leafy Flat-sedge |
| LTG | Carex appressa | Tall Sedge |
| LTG | Lomandra longifolia | Spiny-headed Mat-rush |
| MTG | Poa labillardierei var. labillardierei | Common Tussock-grass |
| MTG | Poa sieberiana var. sieberiana | Grey Tussock-grass |
| MTG | Dianella tasmanica | Tasman Flax-lily |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| GF | Pteridium esculentum | Austral Bracken |
| GF | Polystichum proliferum | Mother Shield-fern |
| GF | Adiantum aethiopicum | Common Maidenhair |
| GF | Blechnum nudum | Fishbone Water-fern |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 82: Riverine Escarpment Scrub - Northern Inland Slopes bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Logs:**  5 m/0.1 ha. (note: large log class does not apply)  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Rosa rubiginosa Sweet Briar low high  MS Rubus sp. aff. armeniacus Blackberry low high  MS Rubus fruticosus spp. agg. Blackberry low high  MH Hypochoeris radicata Cat's Ear high low MH Centaurium erythraea Common Centaury high low  MH Prunella vulgaris Self-heal high high  LNG Holcus lanatus Yorkshire Fog high high  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 83: Swampy Riparian Woodland

Description:

Woodland to 15 m tall generally occupying low energy streams of the foothills and plains. The lower strata are variously locally dominated by a range of large and medium shrub species on the stream levees in combination with large tussock grasses and sedges in the ground layer.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species**  Eucalyptus spp. | **DBH(cm)**  70 cm | **#/ha**  10 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus camphora ssp. humeana  Eucalyptus ovata Eucalyptus radiata s.l. Melaleuca ericifolia | Mountain Swamp-gum  Swamp Gum Narrow-leaf Peppermint Swamp Paperbark |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 2 | 15% | T |
| Medium Shrub | 4 | 10% | MS |
| Small Shrub | 1 | 1% | SS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 8 | 15% | MH |
| Small or Prostrate Herb | 4 | 5% | SH |
| Large Tufted Graminoid | 4 | 20% | LTG |
| Large Non-tufted Graminoid | 2 | 5% | LNG |
| Medium to Small Tufted Graminoid | 4 | 15% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 5% | MNG |
| Ground Fern | 4 | 10% | GF |
| Scrambler or Climber | 1 | 1% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 83: Swampy Riparian Woodland - Northern Inland Slopes bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia melanoxylon Blackwood  T Acacia dealbata Silver Wattle  MS Coprosma quadrifida Prickly Currant-bush  MS Leptospermum continentale Prickly Tea-tree  MS Epacris breviflora Drumstick Heath  SS Rubus parvifolius Small-leaf Bramble  LH Mentha laxiflora Forest Mint  LH Epilobium gunnianum Gunn's Willow-herb  LH Urtica incisa Scrub Nettle  LH Senecio minimus Shrubby Fireweed  MH Acaena novae-zelandiae Bidgee-widgee  MH Geranium potentilloides Cinquefoil Cranesbill  MH Asperula scoparia Prickly Woodruff  SH Hydrocotyle hirta Hairy Pennywort  SH Dichondra repens Kidney-weed  SH Hypericum japonicum Matted St John's Wort  SH Gonocarpus micranthus ssp. micranthus Creeping Raspwort  SH Hydrocotyle tripartita Slender Pennywort  LTG Cyperus lucidus Leafy Flat-sedge  LTG Carex appressa Tall Sedge  LTG Gahnia sieberiana Red-fruit Saw-sedge  LNG Phragmites australis Common Reed  MTG Poa labillardierei Common Tussock-grass  MTG Poa ensiformis Sword Tussock-grass  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Eleocharis gracilis Slender Spike-sedge  MNG Echinopogon ovatus Common Hedgehog-grass  GF Pteridium esculentum Austral Bracken  GF Blechnum nudum Fishbone Water-fern  GF Polystichum proliferum Mother Shield-fern  GF Blechnum minus Soft Water-fern  TRF Dicksonia antarctica Soft Tree-fern  **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact** MS Rubus fruticosus spp. agg. Blackberry high high LH Cirsium vulgare Spear Thistle high high MH Hypochoeris radicata Cat's Ear high low  MH Prunella vulgaris Self-heal high low  MH Mimulus moschatus Musk Monkey-flower high low  MH Lotus corniculatus Bird's-foot Trefoil high high SH Trifolium repens var. repens White Clover high low LNG Holcus lanatus Yorkshire Fog high high  MTG Anthoxanthum odoratum Sweet Vernal-grass high high  Published by the Victorian Government Department of Sustainability and Environment January 2007  © The State of Victoria Department of Sustainability and Environment 2007  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 93: Sandstone Ridge Shrubland (syn. Broombush Mallee)

Description:

Low open mallee to 3 m tall typically with a tall shrubby understorey, or shrubland with scattered emergent mallees. A good field character for this EVC is the dominance or co-dominance of the tall shrub Melaleuca uncinata in shrubland or as an understorey shrub in Mallee vegetation. Confined to the crests of outcropping Parilla sandstone ridges and also where these ridges are at least partially obscured by a shallow mantle of Lowan sand.

+ mallee only component (ignore when assessing shrubland areas and standardise final score as appropriate)

Tree Canopy Cover+:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus viridis  Eucalyptus behriana | Green Mallee  Bull Mallee |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 9 | 30% | MS |
| Small Shrub | 5 | 10% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 6 | 15% | MH |
| Medium to Small Tufted Graminoid | 3 | 5% | MTG |
| Bryophytes/Lichens | na | 20% | BL |
| Soil Crust | na | 20% | S/C |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Melaleuca uncinata | **Common Name**  Broombush |
| MS | Ozothamnus obcordatus | Grey Everlasting |
| MS | Acacia acinacea s.l. | Gold-dust Wattle |
| MS | Cassinia arcuata | Drooping Cassinia |
| SS | Astroloma conostephioides | Flame Heath |
| SS | Pultenaea largiflorens | Twiggy Bush-pea |
| SS | Pultenaea prostrata | Silky Bush-pea |
| SS | Hibbertia exutiacies | Spiky Guinea-flower |
| PS | Astroloma humifusum | Cranberry Heath |
| LH | Senecio tenuiflorus | Slender Fireweed |
| MH | Xerochrysum viscosum | Shiny Everlasting |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MTG | Dianella revoluta s.l. | Black-anther Flax-lily |
| MTG | Austrodanthonia setacea | Bristly Wallaby-grass |

**Recruitment:**

Episodic/Fire. Desirable period between disturbances is 30 years.

Organic Litter:

20 % cover

Logs+:

5 m/0.1 ha. (note: large log class does not apply)

Weediness:

**LF Code Typical Weed Species Common Name Invasive Impact**

MH Hypochoeris glabra Smooth Cat's-ear high low

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 93: Sandstone Ridge Shrubland (syn. Broombush Mallee) – Northern Inland Slopes Bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes Bioregion

EVC 93\_61: Treed Sandstone Ridge Shrubland

###### Description:

Low open mallee to 3 m tall typically with a tall shrubby understorey, or shrubland with scattered emergent mallees. A good field character for this EVC is the dominance or co-dominance of the tall shrub Melaleuca uncinata in shrubland or as an understorey shrub in Mallee vegetation. Confined to the crests of outcropping Parilla sandstone ridges and also where these ridges are at least partially obscured by a shallow mantle of Lowan sand.

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | *Eucalyptus behriana Eucalyptus viridis* | Bull Mallee Green Mallee |

**Understorey: Lifeform** Medium Shrub Small Shrub Prostrate Shrub Large Herb Medium Herb

Medium to Small Tufted Graminoid

###### #Spp %Cover LF Code

9 30% MS

5 10% SS

1 1% PS

1 1% LH

6 15% MH

3 5% MTG

Bryophytes/Lichens 20% BL



Soil Crust 20% S/C

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  *Acacia acinacea s.l.* | **Common Name**  Gold-dust Wattle |
| MS | *Cassinia arcuata* | Drooping Cassinia |
| MS | *Melaleuca uncinata* | Broombush |
| MS | *Ozothamnus obcordatus* | Grey Everlasting |
| SS | *Astroloma conostephioides* | Flame Heath |
| SS | *Hibbertia exutiacies* | Spiky Guinea-flower |
| SS | *Pultenaea largiflorens* | Twiggy Bush-pea |
| SS | *Pultenaea prostrata* | Silky Bush-pea |
| PS | *Astroloma humifusum* | Cranberry Heath |
| LH | *Senecio tenuiflorus s.l.* | Slender Fireweed |
| MH | *Gonocarpus tetragynus* | Common Raspwort |
| MH | *Xerochrysum viscosum* | Shiny Everlasting |
| MTG | *Austrodanthonia setacea* | Bristly Wallaby-grass |
| MTG | *Dianella revoluta s.l.* | Black-anther Flax-lily |

###### Recruitment:

Episodic/Fire. Desirable period between disturbances is 30 years.

###### Organic Litter:

20 % cover

Ecological Vegetation Class Bioregion Benchmark

|  |  |
| --- | --- |
| EVC 93\_61: Treed Sandstone Ridge Shrubland | |
|  | **Logs:**  5 m/0.1ha. (note: large log class does not apply).  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH *Hypochoeris glabra* Smooth Cat's-ear high low  Published by the Victorian Government Department of Sustainability and Environment  © The State of Victoria Government Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-comercial is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson St, East Melbourne, Victoria 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss, of other consequences which may arise from you relying on any information in this publication.  [**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/) |



#### EVC/Bioregion Benchmark for Vegetation Quality Assessment

Northern Inland Slopes bioregion

EVC 101: Samphire Shrubland

Description:

Low open shrub layer to 0.5 m tall of succulent chenopods on saline clay pans. Found in association with the various halite salinas that have developed within evaporative basins or ‘boinkas’.

Life forms:

|  |  |  |  |
| --- | --- | --- | --- |
| **Life form** | **#Spp** | **%Cover** | **LF code** |
| Small Shrub | 4 | 20% | SS |
| Medium Herb | 7 | 5% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Medium to Small Tufted Graminoid | 2 | 1% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 1% | MNG |
| **Total understorey projective foliage cover** |  | **20%** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  SS |  | **Species typical of at least part of EVC range**  Halosarcia pruinosa | **Common Name**  Bluish Glasswort |
| SS |  | Halosarcia halocnemoides ssp. halocnemoides | Grey Glasswort |
| SS |  | Halosarcia pergranulata | Blackseed Glasswort |
| SS | r | Frankenia sessilis | Small-leaf Sea-heath |
| MH |  | Senecio glossanthus | Slender Groundsel |
| MH |  | Hymenolobus procumbens | Oval Purse |
| MH |  | Brachyscome lineariloba | Hard-head Daisy |
| MH | r | Brachyscome exilis | Finger-leaved Daisy |
| SH |  | Disphyma crassifolium ssp. clavellatum | Rounded Noon-flower |
| SH |  | Pogonolepis muelleriana | Stiff Cup-flower |
| SH |  | Crassula sieberiana | Sieber Crassula |
| SH |  | Millotia muelleri | Common Bow-flower |
| MTG |  | Triglochin calcitrapum s.l. | Spurred Arrowgrass |
| MNG |  | Triglochin nanum | Dwarf Arrowgrass |

**Recruitment:**

Continuous

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Weediness: LF Code** | **Typical Weed Species** | **Common Name** | **Invasive** | **Impact** |
| LH  LH MH MH MH | Sonchus oleraceus  Brassica tournefortii Reichardia tingitana Hypochoeris glabra  Carrichtera annua | Common Sow-thistle  Mediterranean Turnip Reichardia  Smooth Cat's-ear Ward’s Weed | high  high high high high | low  high low low high |
| MH | Spergularia diandra | Lesser Sand-spurrey | high | low |
| SH  SH MTG MNG MNG SNG SNG SNG SNG | Medicago minima  Spergularia rubra s.l.  Critesion murinum subsp. glaucum Bromus rubens  Vulpia bromoides Schismus barbata Lamarckia aurea Parapholis incurva  Critesion murinum subsp. glaucum | Little Medic  Red Sand-spurrey Blue Barley-grass Red Brome  Rat’s-tail Fescue Arabian Grass Golden-top Coast Barb-grass  Blue Barley-grass | high  high high high high high high high high | high  low high high high low low high high |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 101: Samphire Shrubland – Northern Inland Slopes bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 132: Plains Grassland

Description:

Treeless vegetation dominated by largely grass and herb life forms. Shrubs and trees may be also occasionally present.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Small Shrub | 2 | 5% | SS |
| Large Herb | 3 | 5% | LH |
| Medium Herb\* | 10 | 20% | MH |
| Small or Prostrate Herb\* | 3 | 5% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 10 | 30% | MTG |
| Medium to Tiny Non-tufted Graminoid\* | 2 | 5% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 20% | S/C |

* Largely seasonal life form

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Acacia oswaldii | **Common Name**  Umbrella Wattle |
| SS | Sclerolaena diacantha | Grey Copperburr |
| SS | Maireana decalvans | Black Cotton-bush |
| SS | Pimelea curviflora s.s. | Curved Rice-flower |
| LH | Ptilotus exaltatus | Mulla Mulla |
| LH | Eryngium ovinum | Blue Devil |
| LH | Calocephalus citreus | Lemon Beauty-heads |
| MH | Calotis scabiosifolia | Rough Burr-daisy |
| MH | Goodenia pinnatifida | Cut-leaf Goodenia |
| MH | Sida corrugata | Variable Sida |
| MH | Ptilotus macrocephalus | Feather Heads |
| SH | Maireana pentagona | Hairy Bluebush |
| SH | Chamaesyce drummondii | Flat Spurge |
| SH | Pogonolepis muelleriana | Stiff Cup-flower |
| LTG | Austrostipa blackii | Crested Spear-grass |
| LTG | Austrostipa gibbosa | Spurred Spear-grass |
| LTG | Austrostipa aristiglumis | Plump Spear-grass |
| MTG | Austrostipa scabra | Rough Spear-grass |
| MTG | Austrostipa nodosa | Knotty Spear-grass |
| MTG | Whalleya proluta | Rigid Panic |
| MTG | Austrodanthonia duttoniana | Brown-back Wallaby-grass |
| SC | Convolvulus erubescens spp. agg. | Pink Bindweed |

Recruitment:

Episodic/Fire or Grazing. Desirable period between disturbances is 5 years.

Organic Litter:

10% cover

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 132: Plains Grassland – Northern Inland Slopes bioregion | |
|  | **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Lycium ferocissimum Boxthorn high high  LH Helminthotheca echioides Ox-tongue high low LH Lepidium africanum Common Peppercress high low  LH Salvia verbenaca Wild Sage high high  LH Echium plantagineum Patterson’s Curse high high  LH Sisymbrium irio London Rocket high high  LH Marrubium vulgare Horehound high high  LNG Avena fatua Wild Oat high high  MH Limonium sinuatum Wild Oat high high  MH Arctotheca calendula Cape Weed high high  MH Hypochoeris glabra Smooth Cat's-ear high low  MH Hypochoeris radicata Cat's Ear high low  MH Oxalis pes-caprae Soursob high high  MH Plantago coronopus Buck's-horn Plantain high high  MH Spergularia rubra s.l. Red Sand-spurrey high low MH Trifolium angustifolium var. angustifolium Narrow-leaf Clover high high MH Trifolium arvense var. arvense Hare's-foot Clover high high MH Trifolium campestre var. campestre Hop Clover high high MH Trifolium striatum Knotted Clover high low  MH Trifolium subterraneum Subterranean Clover high low  MH Hedypnois cretica Cretan Hedypnois high high  MNG Aira cupaniana Quicksilver Grass high low  MNG Avena barbata Bearded Oat high high MNG Brachypodium distachyon False Brome high high MNG Juncus capitatus Capitate Rush high high  MNG Vulpia muralis Wall Fescue high high  MNG Vulpia myuros Rat's-tail Fescue high high  MTG Bromus diandrus Great Brome high high  MTG Critesion hystrix Mediterranean Barley-grass high high  MTG Critesion murinum Barley-grass high high  MTG Lolium rigidum Wimmera Rye-grass high high MTG Pentaschistis airoides ssp. airoides False Hair-grass high low MTG Poa bulbosa Bulbous Meadow-grass high high  MTG Romulea minutiflora Small-flower Onion-grass high high  MTG Romulea rosea Onion Grass high high  MTG Vulpia bromoides Squirrel-tail Fescue high high  SH Medicago minima Little Medic high high  SH Medicago polymorpha Burr Medic high high  SH Trifolium glomeratum Cluster Clover high low  Published by the Victorian Government Department of Sustainability and Environment December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 175\_61: Low Rises Grassy Woodland

Description:

A variable open eucalypt woodland to 15 m tall or occasionally Sheoak woodland to 10 m tall on more skeletal soils. Understorey includes a diverse ground layer of grasses and herbs. The shrub component is usually sparse. It occurs on sites with moderate fertility on gentle slopes or undulating hills on a range of geologies.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species** | **DBH(cm)** | **#/ha** |
| Eucalyptus spp.  Allocasuarina spp. | 70 cm  40 cm | 15 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover**  15% | **Character Species**  Eucalyptus microcarpa | **Common Name**  Grey Box |
|  | Eucalyptus albens | White Box |
|  | Eucalyptus melliodora | Yellow Box |
|  | Eucalyptus blakelyi | Blakely’s Red Gum |
|  | Allocasuarina verticillata | Drooping Sheoak |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 3 | 10% | MS |
| Small Shrub | 4 | 5% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 12 | 20% | MH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 19 | 40% | MTG |
| Medium to Tiny Non-tufted Graminoid | 4 | 5% | MNG |
| Ground Fern | 1 | 1% | GF |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  MS |  | **Species typical of at least part of EVC range**  Acacia pycnantha | **Common Name**  Golden Wattle |
| MS |  | Bursaria spinosa ssp. spinosa | Sweet Bursaria |
| MS |  | Acacia acinacea s.l. | Gold-dust Wattle |
| SS | r | Templetonia stenophylla | Leafy Templetonia |
| SS |  | Pimelea curviflora s.l. | Curved Rice-flower |
| SS |  | Pimelea humilis | Common Rice-flower |
| SS |  | Eutaxia microphylla | Common Eutaxia |
| PS |  | Astroloma humifusum | Cranberry Heath |
| LH |  | Wahlenbergia stricta | Tall Bluebell |
| MH |  | Asperula conferta | Common Woodruff |
| MH |  | Einadia nutans ssp. nutans | Nodding Saltbush |
| MH |  | Gonocarpus tetragynus | Common Raspwort |
| LTG |  | Austrostipa mollis | Supple Spear-grass |
| MTG |  | Dianella revoluta s.l. | Black-anther Flax-lily |
| MTG |  | Themeda triandra | Kangaroo Grass |
| MTG |  | Bothriochloa macra | Red-leg Grass |
| MTG |  | Poa sieberiana | Grey Tussock-grass |
| MNG |  | Austrostipa elegantissima | Feather Spear-grass |
| GF |  | Cheilanthes austrotenuifolia | Green Rock Fern |
| SC |  | Convolvulus erubescens spp. agg. | Pink Bindweed |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 175\_61: Low Rises Grassy Woodland - Northern Inland Slopes bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Sonchus oleraceus Common Sow-thistle high low  LH Plantago lanceolata Ribwort high low  LH Salvia verbenaca Wild Sage high high  LH Carduus tenuiflorus Winged Thistle high high  MH Petrorhagia velutina Velvety Pink high low MH Trifolium angustifolium var. angustifolium Narrow-leaf Clover high low  MH Hypochoeris radicata Cat's Ear high low  MH Parentucellia latifolia Red Bartsia high low  MH Spergularia rubra s.l. Red Sand-spurrey high low MH Trifolium campestre var. campestre Hop Clover high low  MH Anagallis arvensis Pimpernel high low  LNG Avena fatua Wild Oat high low  MTG Romulea minutiflora Small-flower Onion-grass high low MTG Bromus hordeaceus ssp. hordeaceus Soft Brome high low  MTG Lolium loliaceum Stiff Rye-grass high low  MTG Lolium perenne Perennial Rye-grass high low  MTG Ehrharta longiflora Annual Veldt-grass high low  MTG Briza maxima Large Quaking-grass high low  MNG Dactylis glomerata Cocksfoot high high  MNG Vulpia muralis Wall Fescue high low  MNG Vulpia myuros Rat's-tail Fescue high low  MNG Bromus rubens Red Brome high low  MNG Aira elegantissima Delicate Hair-grass high low  MNG Aira cupaniana Quicksilver Grass high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 175\_62: Rainshadow Grassy Woodland

Description:

A variable open eucalypt woodland to 15 m tall over a diverse ground layer of grasses and herbs. The shrub component is usually sparse. It occurs on sites with moderate fertility on gentle slopes or undulating hills on a range of geologies.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species** | **DBH(cm)** | **#/ha** |
| Eucalyptus spp.  Brachychiton spp. | 70 cm  50 cm | 15 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover**  15% | **Character Species**  Eucalyptus albens | **Common Name**  White Box |
|  | Eucalyptus polyanthemos | Red Box |
|  | Eucalyptus melliodora | Yellow Box |
|  | Eucalyptus macrorhyncha | Red Stringybark |
|  | Brachychiton populneus ssp. populneus | Kurrajong |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 1 | 5% | MS |
| Small Shrub | 1 | 1% | SS |
| Prostrate Shrub | 2 | 5% | PS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 13 | 20% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 15 | 40% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 5% | MNG |
| Bryophytes/Lichens | na | 10% | BL |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  T |  | **Species typical of at least part of EVC range**  Acacia implexa | **Common Name**  Lightwood |
| MS |  | Acacia verniciflua | Varnish Wattle |
| MS |  | Acacia rubida | Red-stem Wattle |
| SS |  | Dillwynia cinerascens s.l. | Grey Parrot-pea |
| SS |  | Cheiranthera cyanea var. cyanea | Blue Finger-flower |
| PS |  | Astroloma humifusum | Cranberry Heath |
| LH |  | Wahlenbergia stricta | Tall Bluebell |
| LH |  | Wahlenbergia luteola | Bronze Bluebell |
| MH |  | Gonocarpus tetragynus | Common Raspwort |
| MH |  | Geranium solanderi s.l. | Austral Cranesbill |
| SH |  | Cymbonotus preissianus | Austral Bear's-ear |
| SH |  | Solenogyne dominii | Smooth Solenogyne |
| SH | k | Desmodium varians | Slender Tick-trefoil |
| LTG |  | Juncus flavidus | Gold Rush |
| LTG |  | Austrostipa densiflora | Dense Spear-grass |
| MTG |  | Bothriochloa macra | Red-leg Grass |
| MTG |  | Dianella revoluta s.l. | Black-anther Flax-lily |
| MTG |  | Poa sieberiana | Grey Tussock-grass |
| MTG |  | Themeda triandra | Kangaroo Grass |
| MNG |  | Microlaena stipoides var. stipoides | Weeping Grass |
| TTG |  | Isolepis marginata | Little Club-sedge |
| GF |  | Cheilanthes sieberi ssp. sieberi | Narrow Rock-fern |
| SC |  | Glycine clandestina | Twining Glycine |
| SC |  | Convolvulus erubescens spp. agg. | Pink Bindweed |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 175\_62: Rainshadow Grassy Woodland - Northern Inland Slopes bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  10 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low  MH Cicendia quadrangularis Square Cicendia high low  MH Hypochoeris glabra Smooth Cat's-ear high low  MH Trifolium dubium Suckling Clover high low MH Trifolium arvense var. arvense Hare's-foot Clover high low  MH Petrorhagia velutina Velvety Pink high low  MH Trifolium subterraneum Subterranean Clover high low  MH Centaurium erythraea Common Centaury high low  MH Parentucellia latifolia Red Bartsia high low MH Trifolium angustifolium var. angustifolium Narrow-leaf Clover high low  MH Moenchia erecta Erect Chickweed high low  MH Galium divaricatum Slender Bedstraw high low  MH Arctotheca calendula Cape Weed high low  LNG Holcus lanatus Yorkshire Fog high high  MTG Romulea rosea Onion Grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low  MTG Briza minor Lesser Quaking-grass high low  MTG Briza maxima Large Quaking-grass high low  MNG Juncus capitatus Capitate Rush high low  MNG Holcus setosus Annual Fog high low  MNG Avena barbata Bearded Oat high low  MNG Aira cupaniana Quicksilver Grass high low  MNG Aira elegantissima Delicate Hair-grass high low  MNG Aira caryophyllea Silvery Hair-grass high low  TTG Cyperus tenellus Tiny Flat-sedge high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 175\_63: Shrubby Granitic-outwash Grassy Woodland

Description:

A variable open eucalypt woodland to 15 m tall occurring on the lower slopes of granitic hills where the outwash intersects with the plains. It is restricted to free draining, deep sandy colluviums on gentle, lower slopes at altitudes of less than 300 m. The understorey includes a diverse ground layer of grasses and herbs and may include a suite of heathy shrubs more typical of sandy soils.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species** | **DBH(cm)** | **#/ha** |
| Eucalyptus spp.  Allocasuarina spp. | 70 cm  50 cm | 15 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover**  15% | **Character Species**  Eucalyptus macrorhyncha | **Common Name**  Red Stringybark |
|  | Eucalyptus polyanthemos | Red Box |
|  | Eucalyptus melliodora | Yellow Box |
|  | Eucalyptus goniocalyx s.l. | Long-leaf Box |
|  | Allocasuarina luehmannii | Buloke |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 2 | 5% | MS |
| Small Shrub | 7 | 15% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Medium Herb | 8 | 10% | MH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 10 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 5 | 10% | MNG |
| Ground Fern | 1 | 1% | GF |
| Scrambler or Climber | 1 | 1% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

**Recruitment:**

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 175\_63: Shrubby Granitic-outwash Grassy Woodland - Northern Inland Slopes bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia implexa Lightwood  T Exocarpos cupressiformis Cherry Ballart  MS Calytrix tetragona Common Fringe-myrtle  MS Brachyloma daphnoides Daphne Heath  MS Cassinia arcuata Drooping Cassinia  SS Pultenaea largiflorens Twiggy Bush-pea  SS Dillwynia cinerascens Grey Parrot-pea  SS Acacia aspera Rough Wattle  SS Hibbertia obtusifolia Grey Guinea-flower  PS Acrotriche serrulata Honey-pots  MH Chrysocephalum semipapposum Clustered Everlasting  MH Gonocarpus tetragynus Common Raspwort  MH Geranium solanderi s.l. Austral Cranesbill  MH Drosera peltata ssp. auriculata Tall Sundew  SH Drosera whittakeri ssp. aberrans Scented Sundew  SH Hydrocotyle laxiflora Stinking Pennywort  SH Stuartina muelleri Spoon Cudweed  LTG Dichelachne crinita Long-hair Plume-grass  MTG Dianella revoluta s.l. Black-anther Flax-lily  MTG Aristida ramosa Cane Wire-grass  MTG Austrostipa densiflora Dense Spear-grass  MTG Elymus scaber var. scaber Common Wheat-grass  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Cheilanthes austrotenuifolia Green Rock Fern  SC Hardenbergia violacea Purple Coral-pea  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Hypericum perforatum St John’s-wort high high  LH Sonchus oleraceus Common Sow-thistle high low  LH Plantago lanceolata Ribwort high low  LH Salvia verbenaca Wild Sage high high  LH Carduus tenuiflorus Winged Thistle high high  MH Petrorhagia velutina Velvety Pink high low MH Trifolium angustifolium var. angustifolium Narrow-leaf Clover high low MH Hypochoeris radicata Cat's Ear high low  MH Parentucellia latifolia Red Bartsia high low  MH Spergularia rubra s.l. Red Sand-spurrey high low MH Trifolium campestre var. campestre Hop Clover high low  MH Anagallis arvensis Pimpernel high low  LNG Avena fatua Wild Oat high low MTG Anthoxanthum odoratum Sweet Vernal-grass high high MTG Romulea minutiflora Small-flower Onion-grass high low MTG Bromus hordeaceus ssp. hordeaceus Soft Brome high low MTG Lolium loliaceum Stiff Rye-grass high low  MTG Lolium perenne Perennial Rye-grass high low  MTG Ehrharta longiflora Annual Veldt-grass high low  MTG Briza maxima Large Quaking-grass high low  MNG Dactylis glomerata Cocksfoot high high  MNG Vulpia muralis Wall Fescue high low  MNG Vulpia myuros Rat's-tail Fescue high low  MNG Bromus rubens Red Brome high low  MNG Aira elegantissima Delicate Hair-grass high low  MNG Aira cupaniana Quicksilver Grass high low  Published by the Victorian Government Department of Sustainability and Environment January 2007  © The State of Victoria Department of Sustainability and Environment 2007  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 235: Plains Woodland / Herb-rich Gilgai Wetland Mosaic

Description:

Open woodland to 15 m tall on broad alluvial plains and along ephemeral drainage lines. Soils are generally poorly drained heavy clays which form distinctive “gilgai” crests and troughs in a fine-scale mosaic. The understorey consists of few, if any shrubs while the ground layer is made up of a combination of “dryland” herbs/grasses and amphibious herbs/grasses tolerant of seasonal inundation.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species** | **DBH(cm)** | **#/ha** |
| Eucalyptus spp.  Allocasuarina luehmannii | 70 cm  40 cm | 10 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus camaldulensis  Eucalyptus microcarpa Allocasuarina luehmannii | River Red-gum  Grey Box Buloke |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Medium Shrub | 2 | 10% | MS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 9 | 15% | MH |
| Small or Prostrate Herb | 3 | 15% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 8 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **90%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Acacia pycnantha | **Common Name**  Golden Wattle |
| MS | Acacia paradoxa | Hedge Wattle |
| PS | Astroloma humifusum | Cranberry Heath |
| LH | Senecio tenuiflorus | Slender Fireweed |
| LH | Senecio quadridentatus | Cotton Fireweed |
| MH | Veronica plebeia | Trailing Speedwell |
| MH | Calotis anthemoides | Cut-leaf Burr-daisy |
| MH | Brachyscome basaltica var. gracilis | Woodland Swamp-daisy |
| MH | Vittadinia cuneata | Fuzzy New Holland-daisy |
| SH | Cymbonotus preissianus | Austral Bear's-ear |
| SH | Myriophyllum integrifolium | Tiny Water-milfoil |
| SH | Phyllangium divergens | Wiry Mitrewort |
| LTG | Juncus pallidus | Pale Rush |
| LTG | Deyeuxia quadriseta | Reed Bent-grass |
| MTG | Lomandra filiformis | Wattle Mat-rush |
| MTG | Isolepis platycarpa | Broad-fruit Club-sedge |
| MTG | Pentapogon quadrifidus | Five-awned Spear-grass |
| MTG | Burchardia umbellata | Milkmaids |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| TTG | Centrolepis fascicularis | Tufted Centrolepis |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 235: Plains Woodland / Herb-rich Gilgai Wetland Mosaic  - Northern Inland Slopes bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Cirsium vulgare Spear Thistle high high  MH Hypochoeris radicata Cat's Ear high low MH Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low MH Arctotheca calendula Cape Weed high low  MH Anagallis arvensis Pimpernel high low  MTG Vulpia bromoides Squirrel-tail Fescue high low  MTG Briza minor Lesser Quaking-grass high low  TTG Cyperus tenellus Tiny Flat-sedge high low  Published by the Victorian Government Department of Sustainability and Environment October 2005  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Northern Inland Slopes bioregion

EVC 291: Cane Grass Wetland

Description:

Open-grassland, typically very species-poor except on outer verges, often with monospecific (or virtually so) cane-grass dominated centres. Occur on alluvial plains in shallow (~1 m deep) depressions, on very heavy grey clay soils, prone to turbidity when inundated (4-6 months) and extreme cracking when dry.

|  |  |  |  |
| --- | --- | --- | --- |
| Life Forms: Life form | #Spp | %Cover | LF code |
| Small or Prostrate Herb | 2 | 10% | SH |
| Medium to Tiny Non-tufted Graminoid | 2 | 50% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| Total understorey projective foliage cover |  | 70% |  |

|  |  |  |
| --- | --- | --- |
| LF Code | Species typical of at least part of EVC range | Common Name |
| SH SH MNG MNG | Lemna disperma Azolla filiculoides  Eragrostis infecunda Eleocharis acuta | Common Duckweed Pacific Azolla Southern Cane-grass Common Spike-sedge |

Recruitment:

Episodic/Flood. Desirable period between disturbances is 5 years.

Organic Litter:

10% cover

Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 291: Cane Grass Wetland –Northern Inland Slopes bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 292: Red Gum Swamp

Description:

Open woodland to 15 m tall with a diverse understorey dominated by sedgy or grassy-herbaceous aquatics and species tolerant of intermittent to seasonal inundation. Occurs on alluvial plains in the seasonally wet depressions of shallow drainage lines or prior stream meanders, typically associated with heavy paludal soils, sometimes with gilgai development. The annual rainfall across its distribution is generally below 700 mm, and the period of inundation may range from 2 to 6 months.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species**  Eucalyptus spp. | **DBH(cm)**  80 cm | **#/ha**  10 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 10% | Eucalyptus camaldulensis | River Red-gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Large Herb | 2 | 30% | LH |
| Medium Herb | 1 | 1% | MH |
| Large Tufted Graminoid | 2 | 10% | LTG |
| Medium to Small Tufted Graminoid | 3 | 15% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 10% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| **Total understorey projective foliage cover** |  | **80%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  LH | **Species typical of at least part of EVC range**  Myriophyllum crispatum | **Common Name**  Upright Water-milfoil |
| LH | Villarsia reniformis | Running Marsh-flower |
| MH | Alternanthera denticulata s.l. | Lesser Joyweed |
| MH | Ludwigia peploides ssp. montevidensis | Clove-strip |
| LTG | Carex appressa | Tall Sedge |
| MTG | Lachnagrostis filiformis var. filiformis | Common Blown-grass |
| MTG | Juncus holoschoenus | Joint-leaf Rush |
| MNG | Eleocharis acuta | Common Spike-sedge |

**Recruitment:**

Episodic/Flood. Desirable period between disturbances is 5 years.

Organic Litter:

10 % cover

Logs:

15 m/0.1 ha.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 292: Red Gum Swamp - Northern Inland Slopes bioregion | |
|  | **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Rumex conglomeratus Clustered Dock high low LH Sonchus oleraceus Common Sow-thistle high low LH Rumex crispus Curled Dock high low  LH Cirsium vulgare Spear Thistle high low MH Trifolium subterraneum Subterranean Clover high low  MH Acetosella vulgaris Sheep Sorrel high low  MH Hypochoeris radicata Cat's Ear high low SH Callitriche hamulata Thread Water-starwort high low LTG Phalaris aquatica Toowoomba Canary-grass high high  LNG Holcus lanatus Yorkshire Fog high high  MTG Paspalum dilatatum Paspalum high high  MNG Vulpia spp. Fescue high low  Published by the Victorian Government Department of Sustainability and Environment October 2005  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Northern Inland Slopes bioregion

EVC 295: Riverine Grassy Woodland

Description:

Occurs on the floodplain of major rivers, in a slightly elevated position where floods are infrequent, on deposited silts and sands, forming fertile alluvial soils. River Red Gum woodland to 20 m tall with a groundlayer dominated by graminoids. Occasional tall shrubs present.

|  |  |  |
| --- | --- | --- |
| Large trees: |  | |
| Species  Eucalyptus spp. | DBH(cm)  80 cm | #/ha  15 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| %cover | Character Species | Common Name |
| 20% | Eucalyptus camaldulensis | River Red-gum |

|  |  |  |  |
| --- | --- | --- | --- |
| Understorey: Life form | #Spp | %Cover | LF code |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Small Shrub | 1 | 1% | SS |
| Medium Herb | 2 | 1% | MH |
| Small or Prostrate Herb | 2 | 1% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Medium to Small Tufted Graminoid | 5 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 20% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| Total understorey projective foliage cover |  | 65% |  |

|  |  |  |
| --- | --- | --- |
| LF Code  T | Species typical of at least part of EVC range  Acacia dealbata | Common Name  Silver Wattle |
| MH | Sida corrugata | Variable Sida |
| MH | Oxalis perennans | Grassland Wood-sorrel |
| SH | Chamaesyce drummondii | Flat Spurge |
| SH | Azolla filiculoides | Pacific Azolla |
| LTG | Austrostipa gibbosa | Spurred Spear-grass |
| LTG | Carex tereticaulis | Hollow Sedge |
| MTG | Chloris truncata | Windmill Grass |
| MTG | Themeda triandra | Kangaroo Grass |
| MTG | Aristida behriana | Brush Wire-grass |
| MTG | Elymus scaber var. scaber | Common Wheat-grass |
| MNG | Pseudoraphis spinescens | Spiny Mud-grass |
| MNG | Eleocharis acuta | Common Spike-sedge |

Recruitment:

Continuous

Organic Litter:

10 % cover

Logs:

20 m/0.1 ha.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Weediness: |  | | | |
| LF Code | Typical Weed Species | Common Name | Invasive | Impact |
| LH MTG | Cirsium vulgare Lolium rigidum | Spear Thistle Wimmera Rye-grass | high high | high low |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 295: Riverine Grassy Woodland – Northern Inland Slopes bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 803: Plains Woodland (syn. Riverina Plains Grassy Woodland)

Description:

An open, eucalypt woodland to 15 m tall occurring on a number of geologies and soil types. Occupies fertile clays and clay loam soils on flat or gently undulating plains at low elevations in areas with <600 mm annual rainfall. The understorey consists of a

few sparse shrubs over a species-rich grassy and herbaceous ground layer and chenopods are often present.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species** | **DBH(cm)** | **#/ha** |
| Eucalyptus spp.  Allocasuarina spp. | 70 cm  40 cm | 15 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover**  15% | **Species typical of at least part of EVC range**  Eucalyptus microcarpa | **Common Name**  Grey Box |
|  | Eucalyptus melliodora | Yellow Box |
|  | Eucalyptus camaldulensis | River Red Gum |
|  | Eucalyptus albens | White Box |
|  | Allocasuarina luehmannii | Buloke |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Medium Shrub | 2 | 1% | MS |
| Small Shrub | 1 | 1% | SS |
| Large Herb | 1 | 5% | LH |
| Medium Herb | 11 | 25% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 15 | 45% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| **LF Code**  MS | **Character Species**  Acacia montana | **Common Name**  Mallee Wattle |
| MS | Acacia acinacea s.l. | Gold-dust Wattle |
| MS | Acacia pycnantha | Golden Wattle |
| MS | Pittosporum angustifolium | Weeping Pittosporum |
| SS | Pimelea curviflora s.l. | Curved Rice-flower |
| SS | Eutaxia microphylla var. microphylla | Common Eutaxia |
| SS | Enchylaena tomentosa var. tomentosa | Ruby Saltbush |
| LH | Ajuga australis | Austral Bugle |
| LH | Senecio quadridentatus | Cotton Fireweed |
| MH | Calocephalus citreus | Lemon Beauty-heads |
| MH | Maireana enchylaenoides | Wingless Bluebush |
| MH | Einadia hastata | Saloop |
| MH | Einadia nutans ssp. nutans | Nodding Saltbush |
| SH | Crassula sieberiana | Sieber Crassula |
| SH | Actinobole uliginosum | Flannel Cudweed |
| SH | Oxalis perennans | Grassland Wood-sorrel |
| SH | Calotis hispidula | Hairy Burr-daisy |
| LTG | Austrostipa aristiglumis | Plump Spear-grass |
| MTG | Austrodanthonia caespitosa | Common Wallaby-grass |
| MTG | Dianella revoluta s.l. | Black-anther Flax-lily |
| MTG | Austrostipa scabra | Rough Spear-grass |
| MTG | Enteropogon acicularis | Spider Grass |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 803: Plains Woodland (syn. Riverina Plains Grassy Woodland) – Northern Inland Slopes bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  10 % cover  **Logs:**  10 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Lycium ferocissimum Boxthorn low high  LH Brassica tournefortii Mediterranean Turnip high high  LH Sonchus oleraceus Common Sow-thistle high low  LH Opuntia spp Prickly Pear low high  MH Gazania linearis Gazania high high  MH Spergularia rubra s.l. Red Sand-spurrey high low MH Silene apetala var. apetala Sand Catchfly high low  MH Silene longicaulis Portuguese Catchfly high low  MH Hypochoeris radicata Cat's Ear high low MH Trifolium angustifolium var. angustifolium Narrow-leaf Clover high low  MH Arctotheca calendula Cape Weed high low  MH Trifolium campestre var. campestre Hop Clover high low MH Trifolium arvense var. arvense Hare's-foot Clover high low MH Trifolium subterraneum Subterranean Clover high low  MH Hypochoeris glabra Smooth Cat's-ear high low  MH Trifolium dubium Suckling Clover high low  SH Trifolium glomeratum Cluster Clover low low  SH Medicago minima Little Medic high low  LTG Phalaris aquatica Toowoomba Canary-grass high high  MTG Lolium rigidum Wimmera Rye-grass low low  MTG Schismus barbatus Arabian Grass high low  MTG Poa bulbosa Bulbous Meadow-grass high high MTG Pentaschistis airoides subsp. airoides False Hair-grass high high  MTG Romulea rosea Onion Grass high high  MNG Bromus rubens Red Brome high high  MNG Vulpia myuros Rat's-tail Fescue high low  MNG Romulea rosea Onion Grass high low  MNG Briza minor Lesser Quaking-grass high low  MNG Briza maxima Large Quaking-grass high low  MNG Vulpia bromoides Squirrel-tail Fescue high low  MNG Aira elegantissima Delicate Hair-grass high low  MNG Juncus capitatus Capitate Rush high low  SC Asparagus asparagoides Bridal Creeper high high  Published by the Victorian Government Department of Sustainability and Environment May 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Northern Inland Slopes bioregion

EVC 815: Riverine Swampy Woodland

Description:

Eucalypt woodland to 15 m tall above a grassy to sedgy – herbaceous ground layer, with species indicative of periodic water- logging. Occupies areas subject to shallow inundation only from higher-level flooding on riverine flood plain. Soils are typically heavy, cracking mottled grey-brown clays/clay-loams and water-retentive, often with a gilgai profile which can be wet during winter.

Large trees:

|  |  |  |
| --- | --- | --- |
| Species | DBH(cm) | #/ha |
| Eucalyptus camaldulensis  Eucalyptus largiflorens | 70 cm  50 cm | 15 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| %cover | Character Species | Common Name |
| 20% | Eucalyptus camaldulensis | River Red-gum |

|  |  |  |  |
| --- | --- | --- | --- |
| Understorey: Life form | #Spp | %Cover | LF code |
| Immature Canopy Tree |  | 5% | IT |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 3 | 10% | MH |
| Small or Prostrate Herb | 1 | 5% | SH |
| Large Tufted Graminoid | 3 | 10% | LTG |
| Medium to Small Tufted Graminoid | 2 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 20% | MNG |
| Total understorey projective foliage cover |  | 65% |  |

|  |  |  |
| --- | --- | --- |
| LF Code | Species typical of at least part of EVC range | Common Name |
| LH | Wahlenbergia fluminalis | River Bluebell |
| LH | Brachyscome basaltica var. gracilis | Woodland Swamp-daisy |
| MH | Marsilea drummondii | Common Nardoo |
| SH | Lobelia concolor | Poison Pratia |
| LTG | Amphibromus nervosus | Common Swamp Wallaby-grass |
| LTG | Carex tereticaulis | Rush Sedge |
| MTG | Austrodanthonia duttoniana | Brown-back Wallaby-grass |
| MNG | Eleocharis acuta | Common Spike-sedge |
| MNG | Eleocharis pusilla | Small Spike-sedge |

Recruitment:

Episodic/Flood. Desirable period between disturbances is 5 years.

Organic Litter:

10% cover

Logs:

10 m/0.1 ha.

Weediness:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| LF Code | Typical Weed Species | Common Name | Invasive | Impact |
| LH | Cirsium vulgare | Spear Thistle | high | high |
| MH | Hypochoeris radicata | Cat's Ear | high | low |
| LNG | Avena fatua | Wild Oat | high | low |
| MTG | Vulpia bromoides | Squirrel-tail Fescue | high | low |
| MTG | Critesion hystrix | Mediterranean Barley-grass | high | low |
| MTG | Briza minor | Lesser Quaking-grass | high | low |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 815: Riverine Swampy Woodland – Northern Inland Slopes bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 823: Lignum Swampy Woodland

Description:

Understorey dominated by Lignum, typically of robust character and relatively dense (at least in patches), in association with a low Eucalypt and/or Acacia woodland to 15 m tall. The ground layer includes a component of obligate wetland flora that is able to persist even if dormant over dry periods.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species** | **DBH(cm)** | **#/ha** |
| Eucalyptus largiflorens  Eucalyptus camaldulensis | 50cm  70cm | 15/ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **% cover** | **Character Species** | **Common Name** |
| 20% | Eucalyptus largiflorens  Eucalyptus camaldulensis | Black Box  River Red Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Medium Shrub | 2 | 30% | MS |
| Small Shrub | 1 | 5% | SS |
| Large Herb | 2 | 1% | LH |
| Medium Herb\* | 8 | 10% | MH |
| Small or Prostrate Herb\* | 4 | 10% | SH |
| Medium to Small Tufted Graminoid\* | 2 | 5% | MTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Tiny Non-tufted Graminoid | 3 | 15% | MNG |
| Soil Crust | na | 10% | S/C |

* + Largely seasonal life form

Total understorey projective foliage cover 70%

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Muehlenbeckia florulenta | **Common Name**  Tangled Lignum |
| MS | Chenopodium nitrariaceum | Nitre Goosefoot |
| SS | Sclerolaena muricata | Five-spined Bassia |
| LH | Rumex spp. | Dock |
| MH | Marsilea drummondii | Common Nardoo |
| MH | Brachyscome ciliaris | Variable Daisy |
| MH | Euchiton sphaericus | Annual Cudweed |
| MH | Ranunculus spp. | Buttercup |
| MTG | Setaria jubiflora | Warrego Summer-grass |
| MTG | Austrodanthonia duttoniana | Brown-back Wallaby-grass |
| LNG | Eragrostis australasica | Cane Grass |
| MNG | Eragrostis infecunda | Barren Cane grass |
| MNG | Eleocharis acuta | Common Spike-sedge |
| MNG | Eleocharis pusilla | Small Spike-sedge |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 823: Lignum Swampy Woodland – Northern Inland Slopes bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  10 % cover  **Logs:**  10m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  SH Phyla canescens Lippia high high  Published by the Victorian Government Department of Sustainability and Environment December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes bioregion

EVC 826: Plains Savannah

Description:

A structurally diverse vegetation unit which includes ‘grassy openings’ of a few to many hundreds of hectares, with a variable tree density ranging from a very sparse savannah to woodland. The relative absence of eucalypts is particularly characteristic, with Allocasuarina luehmannii and perhaps Callitris gracilis subsp. murrayensis to 10 m tall being the dominant trees. Widespread on the northern plains.

+ woodland only components (ignore when assessing grassland areas and standardise final score as appropriate)

Large trees+:

|  |  |  |
| --- | --- | --- |
| **Species** | **DBH(cm)** | **#/ha** |
| Allocasuarina luehmannii | 40 cm | 5/ha |
| Callitris gracilis ssp. murrayensis |  |  |

**Tree Canopy Cover**+**:**

|  |  |  |
| --- | --- | --- |
| **% cover** | **Character Species** | **Common Name** |
| 10% | Allocasuarina luehmannii  Callitris gracilis ssp. murrayensis | Buloke  Slender Cypress-pine |

**Understorey:**

**Life form #Spp %Cover LF code**

+

Immature Canopy Tree

5% IT

Small Shrub 2 5% SS



Large Herb 3 5% LH

Medium Herb\* 6 20% MH

Small or Prostrate Herb\* 3 10% SH

Large Tufted Graminoid 1 5% LTG

Large Non-tufted Graminoid 1 5% LNG

Medium to Small Tufted Graminoid 5 35% MTG

Medium to Tiny Non-tufted Graminoid\* 2 5% MNG

Bryophytes/Lichens na 10% BL

Soil Crust na 25% S/C

* + Largely seasonal life form

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia pendula | **Common Name**  Boree |
| MS | Acacia oswaldii | Umbrella Wattle |
| SS | Sclerolaena napiformis | Turnip Copperburr |
| SS | Sclerolaena diacantha | Grey Copperburr |
| SS | Maireana decalvans | Black Cotton-bush |
| SS | Pimelea curviflora s.s. | Curved Rice-flower |
| LH | Ptilotus exaltatus | Mulla Mulla |
| LH | Eryngium ovinum | Blue Devil |
| LH | Calocephalus citreus | Lemon Beauty-heads |
| LH | Arthropodium fimbriatum | Nodding Chocolate-lily |
| MH | Calotis scabiosifolia | Rough Burr-daisy |
| MH | Goodenia pinnatifida | Cut-leaf Goodenia |
| MH | Sida corrugata | Variable Sida |
| MH | Ptilotus macrocephalus | Feather Heads |
| SH | Maireana pentagona | Hairy Bluebush |
| SH | Chamaesyce drummondii | Flat Spurge |
| SH | Pogonolepis muelleriana | Stiff Cup-flower |
| SH | Convolvulus erubescens spp. agg. | Pink Bindweed |
| LTG | Austrostipa blackii | Crested Spear-grass |
| LTG | Austrostipa gibbosa | Spurred Spear-grass |
| LTG | Austrostipa aristiglumis | Plump Spear-grass |
| MTG | Austrostipa scabra | Rough Spear-grass |
| MTG | Austrostipa nodosa | Knotty Spear-grass |
| MTG | Whalleya proluta | Rigid Panic |
| MTG | Austrodanthonia duttoniana | Brown-back Wallaby-grass |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 826: Plains Savannah – Northern Inland Slopes bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  5% cover  **Logs**+**:**  5 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Lycium ferocissimum Boxthorn high high  LH Helminthotheca echioides Ox-tongue high low LH Lepidium africanum Common Peppercress high low  LH Salvia verbenaca Wild Sage high high  LH Echium plantagineum Patterson’s curse high high  LH Sisymbrium irio London Rocket high high  LH Marrubium vulgare Horehound high high  LNG Avena fatua Wild Oat high high  MH Limonium sinuatum Notch-leaf Sea-lavender high high  MH Arctotheca calendula Cape Weed high high  MH Hypochoeris glabra Smooth Cat's-ear high low  MH Hypochoeris radicata Cat's Ear high low  MH Oxalis pes-caprae Soursob high high  MH Plantago coronopus Buck's-horn Plantain high high  MH Spergularia rubra s.l. Red Sand-spurrey high low MH Trifolium angustifolium var. angustifolium Narrow-leaf Clover high high MH Trifolium arvense var. arvense Hare's-foot Clover high high MH Trifolium campestre var. campestre Hop Clover high high MH Trifolium striatum Knotted Clover high low  MH Trifolium subterraneum Subterranean Clover high low  MH Hedypnois cretica Cretan Hedypnois high high  MNG Aira cupaniana Quicksilver Grass high low  MNG Avena barbata Bearded Oat high high  MNG Brachypodium distachyon False Brome high high MNG Juncus capitatus Capitate Rush high high  MNG Vulpia muralis Wall Fescue high high  MNG Vulpia myuros Rat's-tail Fescue high high  MTG Bromus diandrus Great Brome high high  MTG Critesion hystrix Mediterranean Barley-grass high high  MTG Critesion murinum Barley-grass high high  MTG Lolium rigidum Wimmera Rye-grass high high MTG Pentaschistis airoides ssp. airoides False Hair-grass high low MTG Poa bulbosa Bulbous Meadow-grass high high  MTG Romulea minutiflora Small-flower Onion-grass high high  MTG Romulea rosea Onion Grass high high  MTG Vulpia bromoides Squirrel-tail Fescue high high  SH Medicago minima Little Medic high high  SH Medicago polymorpha Burr Medic high high  SH Trifolium glomeratum Cluster Clover high low  Published by the Victorian Government Department of Sustainability and Environment December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Northern Inland Slopes Bioregion

EVC 826\_61: Treed Plains Savannah

###### Description:

A structurally diverse vegetation unit which includes 'grassy openings' of a few to many hundreds of hectares, with a variable tree density ranging from a very sparse savannah to woodland. The relative absence of eucalypts is particularly characteristic, with Allocasuarina luehmannii and perhaps Callitris gracilis subsp. murrayensis to 10 m tall being the dominant trees. Widespread on the northern plains.

###### Large Trees:

**Species DBH(cm) #/ha**

*Allocasuarina luehmannii*

*Callitris gracilis subsp. murrayensis*

###### Tree Canopy Cover:

40 cm

0 cm

5 / ha

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 10% | *Allocasuarina luehmannii*  *Callitris gracilis subsp. murrayensis* | Buloke  Slender Cypress-pine |

###### Understorey: Lifeform

**#Spp %Cover LF Code**

Immature Canopy Tree 5% IT

Small Shrub Large Herb Medium Herb\*

Small or Prostrate Herb\* Large Tufted Graminoid Large Non-Tufted Graminoid

Medium to Small Tufted Graminoid Medium to Tiny Non-Tufted Graminoid\*

1. 5% SS
2. 5% LH

6 20% MH

3 10% SH

1 5% LTG

1 5% LNG

5 35% MTG

2 5% MNG

Bryophytes/Lichens 10% BL



Soil Crust 25% S/C

\*Largely seasonal lifeform

Ecological Vegetation Class Bioregion Benchmark

|  |  |  |
| --- | --- | --- |
| EVC 826\_61: Treed Plains Savannah | | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  SS *Maireana decalvans* Black Cotton-bush  SS *Pimelea curviflora s.s.* Curved Rice-flower  SS *Sclerolaena diacantha* Grey Copperburr  SS E e *Sclerolaena napiformis* Turnip Copperburr  LH *Arthropodium fimbriatum* Nodding Chocolate-lily  LH *Calocephalus citreus* Lemon Beauty-heads  LH *Eryngium ovinum* Blue Devil  LH *Ptilotus exaltatus* Mulla Mulla  MH *Calotis scabiosifolia* Rough Burr-daisy  MH *Goodenia pinnatifida* Cut-leaf Goodenia  MH *Ptilotus macrocephalus* Feather Heads  MH *Sida corrugata* Variable Sida  SH *Chamaesyce drummondii* Flat Spurge  SH *Convolvulus erubescens spp. agg.* Pink Bindweed  SH *Maireana pentagona* Hairy Bluebush  SH *Pogonolepis muelleriana* Stiff Cup-flower  LTG *Austrostipa aristiglumis* Plump Spear-grass  LTG *Austrostipa blackii* Crested Spear-grass  LTG *Austrostipa gibbosa* Spurred Spear-grass LNG *Various spp.*  MTG *Austrodanthonia duttoniana* Brown-back Wallaby-grass  MTG *Austrostipa nodosa* Knotty Spear-grass  MTG *Austrostipa scabra* Rough Spear-grass  MTG *Whalleya proluta* Rigid Panic  MNG *Various spp.*  **Recruitment:**  Continuous.  **Organic Litter:**  5 % cover  **Logs:**  5 m/0.1ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS *Lycium ferocissimum* African Box-thorn high high  MNG *Vulpia myuros* Rat's-tail Fescue high high LH *Echium plantagineum* Paterson's Curse high high LH *Sisymbrium irio* London Rocket high high  LNG *Avena fatua* Wild Oat high high  MH *Arctotheca calendula* Cape Weed high high  MH *Limonium sinuatum* Notch-leaf Sea-lavender high high  LH *Marrubium vulgare* Horehound high high  MH *Oxalis pes-caprae* Soursob high high MH *Trifolium arvense var. arvense* Hare's-foot Clover high high MH *Trifolium campestre var. campestre* Hop Clover high high MH *Hedypnois cretica* Cretan Hedypnois high high  MNG *Avena barbata* Bearded Oat high high  MTG *Romulea minutiflora* Small-flower Onion-grass high high  MTG *Poa bulbosa* Bulbous Meadow-grass high high  MTG *Lolium rigidum* Wimmera Rye-grass high high  MNG *Vulpia muralis* Wall Fescue high high  MNG *Juncus capitatus* Capitate Rush high high SH *Medicago polymorpha* Burr Medic high high SH *Medicago minima* Little Medic high high | |
|  |  |  |
|  | Ecological Vegetation Class Bioregion Benchmark | |



|  |  |
| --- | --- |
| EVC 826\_61: Treed Plains Savannah | |
|  | **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MTG *Vulpia bromoides* Squirrel-tail Fescue high high  MTG *Romulea rosea* Onion Grass high high MNG *Brachypodium distachyon* False Brome high high MH *Trifolium angustifolium var.* Narrow-leaf Clover high high  *angustifolium*  MH *Plantago coronopus* Buck's-horn Plantain high high  MTG *Hordeum hystrix* Mediterranean Barley-grass high high  MTG *Bromus diandrus* Great Brome high high  LH *Salvia verbenaca* Wild Sage high high MTG *Hordeum murinum s.l.* Barley-grass high high MH *Trifolium subterraneum* Subterranean Clover high low MH *Trifolium striatum* Knotted Clover high low LH *Helminthotheca echioides* Ox-tongue high low MH *Spergularia rubra s.l.* Red Sand-spurrey high low MTG *Pentaschistis airoides subsp. airoides* False Hair-grass high low LH *Lepidium africanum* Common Peppercress high low  SH *Trifolium glomeratum* Cluster Clover high low  MH *Hypochoeris radicata* Cat's Ear high low  MNG *Aira cupaniana* Quicksilver Grass high low  MH *Hypochoeris glabra* Smooth Cat's-ear high low  Published by the Victorian Government Department of Sustainability and Environment  © The State of Victoria Government Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-comercial is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson St, East Melbourne, Victoria 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss, of other consequences which may arise from you relying on any information in this publication.  [**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/) |



EVC/Bioregion Benchmark for Vegetation Quality Assessment

Northern Inland Slopes bioregion

EVC 882: Shallow Sands Woodland

Description:

Woodland or open-forest to 15 m tall, with a sparse shrub layer of heathy, ericoid shrubs and a species-rich ground cover dominated by grasses and annual herbs. Typically it occurs between the heavier soils of the plains and the deep-sand aeolian dunefields which overlay these plains, but also occurs on broader areas of plains covered by shallow fluvial, outwash or aeolian sands overlaying drainage-impeding clays.

|  |  |  |
| --- | --- | --- |
| Large trees: |  | |
| Species  Eucalyptus spp.  Allocasuarina luehmannii Callitris glaucophylla | DBH(cm)  70 cm  40 cm  40 cm | #/ha  15 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| %cover | Character Species | Common Name |
| 15% | Eucalyptus melliodora | Yellow Box |
|  | Allocasuarina luehmannii | Buloke |
|  | Callitris glaucophylla | White Cypress-pine |

|  |  |  |  |
| --- | --- | --- | --- |
| Understorey: Life form | #Spp | %Cover | LF code |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 4 | 15% | MS |
| Small Shrub | 3 | 10% | SS |
| Prostrate Shrub | 1 | 5% | PS |
| Medium Herb | 10 | 20% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 13 | 30% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 5% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

|  |  |  |
| --- | --- | --- |
| LF Code  T | Species typical of at least part of EVC range  Exocarpos cupressiformis | Common Name  Cherry Ballart |
| MS | Acacia montana | Mallee Wattle |
| MS | Acacia pycnantha | Golden Wattle |
| MS | Acacia verniciflua | Varnish Wattle |
| MS | Bursaria spinosa ssp. spinosa | Sweet Bursaria |
| SS | Pimelea curviflora s.s. | Curved Rice-flower |
| SS | Eutaxia microphylla | Common Eutaxia |
| SS | Enchylaena tomentosa var. tomentosa | Ruby Saltbush |
| PS | Astroloma humifusum | Cranberry Heath |
| MH | Wahlenbergia luteola | Yellowish Bluebell |
| MH | Acaena echinata | Sheep's Burr |
| SH | Daucus glochidiatus | Australian Carrot |
| SH | Drosera whittakeri ssp. aberrans | Scented Sundew |
| LTG | Dichelachne crinita | Long-hair Plume-grass |
| MTG | Austrodanthonia geniculata | Kneed Wallaby-grass |
| MTG | Austrodanthonia setacea | Bristly Wallaby-grass |
| MTG | Schoenus apogon | Common Bog-sedge |
| MTG | Lomandra multiflora ssp. multiflora | Many-flowered Mat-rush |
| TTG | Centrolepis strigosa ssp. strigosa | Hairy Centrolepis |
| SC | Thysanotus patersonii | Twining Fringe-lily |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 882: Shallow Sands Woodland – Northern Inland Slopes bioregion | |
|  | Recruitment:  Continuous  Organic Litter:  20 % cover  Logs:  15 m/0.1 ha.  Weediness:  LF Code Typical Weed Species Common Name Invasive Impact  LH Centaurium tenuiflorum Slender Centaury high low  MH Hypochoeris radicata Cat's Ear high low  MH Hypochoeris glabra Smooth Cat's-ear high low MH Trifolium campestre var. campestre Hop Clover high low  MH Trifolium angustifolium var. angustifolium Narrow-leaf Clover high low MH Trifolium arvense var. arvense Hare's-foot Clover high low  MH Petrorhagia velutina Velvety Pink high low  MTG Briza minor Lesser Quaking-grass high low  MTG Briza maxima Large Quaking-grass high low  MTG Romulea rosea Onion Grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low  MNG Aira elegantissima Delicate Hair-grass high low  MNG Vulpia myuros f. myuros Rat's-tail Fescue high low  MNG Juncus capitatus Capitate Rush high low  MNG Bromus rubens Red Brome high low  Published by the Victorian Government Department of Sustainability and Environment November 2007  © The State of Victoria Department of Sustainability and Environment 2007  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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