

### EVC/Bioregion Benchmark for Vegetation Quality Assessment

Central Victorian Uplands bioregion

EVC 3: Damp Sands Herb-rich Woodland

###### Description:

A low, grassy or bracken-dominated eucalypt forest or open woodland to 15 m tall with a large shrub layer and ground layer rich in herbs, grasses, and orchids. Occurs mainly on flat or undulating areas on moderately fertile, relatively well-drained, deep sandy or loamy topsoils over heavier subsoils (duplex soils).

**Large trees:**

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

**Tree Canopy Cover:**

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus ovata | Swamp Gum |
|  | Eucalyptus viminalis | Manna Gum |

**Understorey:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 3 | 10% | MS |
| Small Shrub | 3 | 5% | SS |
| Medium Herb | 16 | 20% | MH |
| Small or Prostrate Herb | 7 | 15% | SH |
| Large Tufted Graminoid | 1 | 10% | LTG |
| Medium to Small Tufted Graminoid | 10 | 15% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 10% | MNG |
| Ground Fern | 1 | 10% | GF |
| Bryophytes/Lichens | na | 10% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 3: Damp Sands Herb-rich Woodland – Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia mearnsii Black Wattle  MS Bursaria spinosa Sweet Bursaria  MS Acacia verticillata Prickly Moses  MS Ozothamnus ferrugineus Tree Everlasting  MS Leptospermum continentale Prickly Tea-tree  SS Pimelea humilis Common Rice-flower  SS Lissanthe strigosa ssp. subulata Peach Heath  SS Hibbertia riparia Erect Guinea-flower  MH Geranium solanderi s.l. Austral Cranesbill  MH Drosera peltata ssp. auriculata Tall Sundew  MH Hydrocotyle foveolata Yellow Pennywort  MH Acaena novae-zelandiae Bidgee-widgee  SH Drosera whittakeri ssp. aberrans Scented Sundew  SH Oxalis exilis Shady Wood-sorrel  SH Viola cleistogamoides Hidden Violet  SH Opercularia ovata Broad-leaf Stinkweed  LTG Austrostipa rudis ssp. nervosa Veined Spear-grass  LTG Juncus pallidus Pale Rush  MTG Poa sieberiana var. sieberiana Grey Tussock-grass  MTG Lomandra filiformis ssp. coriacea Wattle Mat-rush MTG Austrodanthonia racemosa var. racemosa Stiped Wallaby-grass  MTG Lomandra filiformis Wattle Mat-rush  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Pteridium esculentum Austral Bracken  **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  T Pinus radiata Radiata Pine low high MH Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low MH Hypochoeris radicata Cat's Ear high low  LNG Holcus lanatus Yorkshire Fog high high  MTG Anthoxanthum odoratum Sweet Vernal-grass high high  MTG Juncus microcephalus Tiny-headed Rush low low  MTG Briza maxima Large Quaking-grass high low  MNG Aira caryophyllea Silvery 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**

Central Victorian Uplands bioregion

EVC 6: Sand Heathland

###### Description:

Treeless heathland (or with scattered emergent mallee-form eucalypts) occurring on deep infertile sands. Consists of a low, dense heathy shrub layer and a number of sedges and sedge-like species.

+ eucalypt woodland only components (ignore when assessing shrublands and standardise site condition score as required)

###### Large trees+:

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

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

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 10% | Eucalyptus obliqua | Messmate |

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree+ |  | 5% | IT |
| Medium Shrub | 6 | 30% | MS |
| Small Shrub | 8 | 20% | SS |
| Prostrate Shrub | 3 | 5% | PS |
| Medium Herb | 3 | 5% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Tufted Graminoid | 2 | 10% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 6 | 15% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Ground Fern | 1 | 1% | GF |
| Scrambler or Climber | 3 | 5% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 6: Sand Heathland – Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  MS Banksia marginata Silver Banksia  MS Aotus ericoides Common Aotus  MS Leptospermum myrsinoides Heath Tea-tree  MS Leptospermum continentale Prickly Tea-tree  SS Platylobium obtusangulum Common Flat-pea  SS Isopogon ceratophyllus Horny Cone-bush  SS Pimelea humilis Common Rice-flower  SS Tetratheca ciliata Pink-bells  PS Acrotriche serrulata Honey-pots  PS Gompholobium ecostatum Dwarf Wedge-pea  PS Astroloma humifusum Cranberry Heath  MH Chamaescilla corymbosa Blue Squill  MH Goodenia geniculata Bent Goodenia  MH Drosera peltata ssp. auriculata Tall Sundew  SH Viola cleistogamoides Hidden Violet  LTG Gahnia sieberiana Red-fruit Saw-sedge  LTG Xanthorrhoea australis Austral Grass-tree  LTG Austrostipa mollis Supple Spear-grass  LNG Gahnia radula Thatch Saw-sedge  MTG Lomandra filiformis Wattle Mat-rush  MTG Schoenus apogon Common Bog-sedge  MTG r Lepidosperma canescens Hoary Rapier-sedge  MTG Austrodanthonia setacea Bristly Wallaby-grass  MNG Hypolaena fastigiata Tassel Rope-rush  TTG Schoenus breviculmis Matted Bog-sedge  GF Lindsaea linearis Screw Fern  SC Cassytha pubescens s.s. Downy Dodder-laurel  SC Cassytha glabella Slender Dodder-laurel  **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 30 years.  **Organic Litter:**  20% cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  There are no consistent weeds in this EVC.  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**

Central Victorian Uplands 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 | Lagenophora gracilis | Slender Bottle-daisy |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Hypericum gramineum | Small St John's Wort |
| MH | Viola betonicifolia ssp. betonicifolia | Showy Violet |
| SH | Mitrasacme serpyllifolia | Thyme Mitrewort |
| 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 | Caustis flexuosa | Curly Wig |
| MNG | Echinopogon ovatus | Common Hedgehog-grass |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 7: Clay Heathland - Central Victorian Uplands 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**

Central Victorian Uplands bioregion

EVC 16: Lowland Forest

###### Description:

Eucalypt forest to 20 m tall on relatively fertile, moderately well-drained soils in areas of relatively high rainfall. Characterised by the diversity of life forms and species in the understorey including a range of shrubs, grasses and herbs.

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

**Tree Canopy Cover:**

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus goniocalyx s.l | Bundy |
|  | Eucalyptus baxteri s.l | Brown Stringybark |
|  | Eucalyptus polyanthemos | Red Box |
|  | Eucalyptus obliqua | Messmate Stringybark |
|  | Eucalyptus consideniana | Yertchuk |

**Understorey:**

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 16: Lowland Forest – Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia melanoxylon Blackwood  MS Acacia pycnantha Golden Wattle  MS Monotoca scoparia Prickly Broom-heath  MS Hakea sericea s.l. Bushy Needlewood  MS Leptospermum continentale Prickly Tea-tree  SS Pimelea humilis Common Rice-flower  SS Platylobium obtusangulum Common Flat-pea  SS Pultenaea humilis Dwarf Bush-pea  SS Pultenaea gunnii ssp. gunnii Golden Bush-pea  PS Pultenaea pedunculata Matted Bush-pea  PS Astroloma humifusum Cranberry Heath  PS Acrotriche serrulata Honey-pots  LH Wahlenbergia stricta Tall Bluebell  LH Senecio minimus Shrubby Fireweed  MH Gonocarpus tetragynus Common Raspwort  MH Hypericum gramineum Small St John's Wort  MH Brachyscome multifida Cut-leaf Daisy  SH Opercularia varia Variable Stinkweed  LTG Xanthorrhoea australis Austral Grass-tree  LTG Austrostipa mollis Supple Spear-grass  LTG Deyeuxia quadriseta Reed Bent-grass  MTG Austrodanthonia setacea Bristly Wallaby-grass  MTG Lomandra multiflora ssp. multiflora Many-flowered Mat-rush  MTG Dichelachne sciurea spp. agg. Short-hair Plume-grass  MTG Poa australis spp. agg. Tussock Grass  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Luzula campestris spp. agg. Field Woodrush  SC Thysanotus patersonii Twining Fringe-lily  **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  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**

Central Victorian Uplands 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** | **DBH(cm) #/ha** | |  | |
| Eucalyptus spp. | 80 cm 20 / ha | |
| **Tree Canopy Cover:** |  | |
| **%cover**  40% | **Character Species**  Eucalyptus radiata ssp. radiata Eucalyptus viminalis  Eucalyptus globulus ssp. bicostata | | **Common Name**  Narrow-leaf Peppermint Manna Gum  Eurabbie | |
| **Understorey:** |  | |  | |
| **Life form** | | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree | |  | 5% | 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 – Central Victorian Uplands 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 low 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**

Central Victorian Uplands bioregion

EVC 19: Riparian Shrubland

###### Description:

Diverse, 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. 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** |
| 40% | Acacia melanoxylon | Blackwood |
|  | Leptospermum grandifolium | Mountain Tea-tree |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey:** |  | | |
| **Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 9 | 30% | MS |
| Medium Herb | 2 | 5% | MH |
| Large Tufted Graminoid | 1 | 10% | LTG |
| Medium to Small Tufted Graminoid | 4 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Ground Fern | 4 | 10% | GF |
| Tree Fern | 2 | 1% | TRF |
| Scrambler or Climber | 2 | 5% | SC |
| Bryophytes/Lichens | na | 20% | BL |
| **Total understorey projective foliage cover** |  | **60%** |  |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 19: Riparian Shrubland – Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  MS Coprosma quadrifida Prickly Currant-bush  MS Hedycarya angustifolia Austral Mulberry  MS Kunzea ericoides Burgan  MS Micrantheum hexandrum Box Micrantheum  MH Euchiton collinus s.l. Clustered/Creeping Cudweed  LTG Carex appressa Tall Sedge  MTG Lepidosperma laterale Variable Sword-sedge  MTG Poa ensiformis Sword Tussock-grass  MTG Dianella tasmanica Tasman Flax-lily  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Calochlaena dubia Common Ground-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 Pandorea pandorana Wonga Vine  **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 Rubus fruticosus spp. agg. Blackberry 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**

Central Victorian Uplands bioregion

EVC 20: Heathy Dry Forest

###### Description:

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 overstorey is a low, open eucalypt forest to 20 m tall, poor in form with an open crown cover. 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** | **DBH(cm)** | **#/ha** |
| Eucalyptus spp. | 60 cm | 20 / ha |

|  |  |  |
| --- | --- | --- |
| **Tree Canopy Cover:**  **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus macrorhyncha | Red Stringybark |
|  | Eucalyptus dives | Broad-leaved Peppermint |
|  | Eucalyptus polyanthemos | Red Box |
|  | Eucalyptus goniocalyx s.l. | Long-leaf Box |
|  | Eucalyptus mannifera ssp. mannifera | Brittle Gum |

**Understorey:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Medium Shrub | 6 | 30% | MS |
| Small Shrub | 5 | 20% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Medium Herb | 3 | 5% | MH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 4 | 20% | MTG |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **80%** |  |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 20: Heathy Dry Forest – Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  MS Epacris impressa Common Heath  MS Pultenaea gunnii Golden Bush-pea  MS Banksia marginata Silver Banksia  MS Monotoca scoparia Prickly Broom-heath  SS Platylobium obtusangulum Common Flat-pea  SS Hovea heterophylla Common Hovea  SS Pultenaea humilis Dwarf Bush-pea  SS Leucopogon virgatus var. virgatus Common Beard-heath  PS Acrotriche serrulata Honey-pots  MH Gonocarpus tetragynus Common Raspwort  MH Drosera peltata ssp. auriculata Tall Sundew  LTG Xanthorrhoea australis Austral Grass-tree  MTG Dianella revoluta s.l. Black-anther Flax-lily  MTG Lomandra filiformis Wattle Mat-rush  MTG Poa sieberiana Grey Tussock-grass  MTG Joycea pallida Silvertop Wallaby-grass  **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 20 years.  **Organic Litter:**  20 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  There are no consistent weeds in this EVC.  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**

Central Victorian Uplands 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 a low, 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** | **DBH(cm)** | **#/ha** |
| Eucalyptus spp. | 70 cm | 20 / ha |

|  |  |  |
| --- | --- | --- |
| **Tree Canopy Cover:** |  | |
| **%cover**  30% | **Character Species**  Eucalyptus cypellocarpa Eucalyptus obliqua | **Common Name**  Mountain Grey-gum Messmate Stringybark |

**Life Forms:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 4 | 20% | MS |
| Small Shrub | 3 | 10% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 2 | 5% | MH |
| Large Tufted Graminoid | 1 | 15% | LTG |
| Medium to Small Tufted Graminoid | 2 | 10% | MTG |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **75%** |  |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 21: Shrubby Dry Forest – Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  MS Spyridium parvifolium Dusty Miller  MS Acacia myrtifolia Myrtle Wattle  MS Banksia marginata Silver Banksia  MS Hakea sericea s.l. Bushy Needlewood  SS Hibbertia stricta s.l. Upright Guinea-flower  SS Platylobium obtusangulum Common Flat-pea  SS Isopogon ceratophyllus Horny Cone-bush  SS Pultenaea humilis Dwarf Bush-pea  PS Acrotriche serrulata Honey-pots  MH Drosera peltata ssp. auriculata Tall Sundew  LTG Xanthorrhoea australis Austral Grass-tree  MTG Lepidosperma semiteres Wire Rapier-sedge  MTG Poa australis spp. agg. Tussock Grass  **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 20 years.  **Organic Litter:**  20 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  There are no consistent weeds in this EVC.  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**

Central Victorian Uplands 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 20m 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. 70 cm 20 / ha

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus macrorhyncha  Eucalyptus goniocalyx s.l. Eucalyptus obliqua | Red Stringybark  Bundy  Messmate Stringybark |

|  |  |  |  |
| --- | --- | --- | --- |
| **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 | 3 | 5% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 7 | 20% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 7 | 30% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Ground Fern | 1 | 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 – Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia dealbata Silver Wattle  MS Epacris impressa Common Heath  SS Hovea heterophylla Common Hovea  SS Pimelea humilis Common Rice-flower  SS Acacia aculeatissima Thin-leaf Wattle  PS Acrotriche serrulata Honey-pots  LH Senecio tenuiflorus Slender Fireweed  MH Gonocarpus tetragynus Common Raspwort  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Hypericum gramineum Small St John's Wort  SH Dichondra repens Kidney-weed  SH Hydrocotyle laxiflora Stinking Pennywort  SH Goodenia lanata Trailing Goodenia  MTG Joycea pallida Silvertop Wallaby-grass  MTG Poa sieberiana Grey Tussock-grass  MTG Lomandra filiformis Wattle Mat-rush  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  **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  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**

Central Victorian Uplands bioregion

EVC 23: Herb-rich Foothill Forest

###### Description:

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. A medium to tall open forest or woodland to 25m tall with a small tree layer over a sparse to dense shrub layer. A high cover and diversity of herbs and grasses in the ground layer characterise this EVC.

###### Large trees:

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

Eucalyptus spp. 70 cm 20 / ha

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Eucalyptus globulus ssp. bicostata  Eucalyptus obliqua Eucalyptus dives | Eurabbie  Messmate Stringybark Broad-leaved Peppermint |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 3 | 5% | MS |
| Small Shrub | 2 | 1% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 4 | 5% | LH |
| Medium Herb | 11 | 25% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 6 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Ground Fern | 2 | 10% | GF |
| Scrambler or Climber | 3 | 5% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 23: Herb-rich Foothill Forest – Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia dealbata Silver Wattle  SS Hovea heterophylla Common Hovea  PS Acrotriche prostrata Trailing Ground-berry  LH Wahlenbergia stricta Tall Bluebell  LH Senecio tenuiflorus Slender Fireweed  LH Senecio minimus Shrubby Fireweed  LH Senecio quadridentatus Cotton Fireweed  MH Stellaria pungens Prickly Starwort  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Acaena novae-zelandiae Bidgee-widgee  SH Dichondra repens Kidney-weed  SH Hydrocotyle laxiflora Stinking Pennywort  LTG Lomandra longifolia ssp. longifolia Spiny-headed Mat-rush  MTG Lomandra filiformis ssp. coriacea Wattle Mat-rush  MTG Luzula meridionalis var. flaccida Common Woodrush  MTG Austrodanthonia pilosa Velvet Wallaby-grass  MTG Poa ensiformis Sword Tussock-grass  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Poa tenera Slender Tussock-grass  MNG Echinopogon ovatus Common Hedgehog-grass  GF Pteridium esculentum Austral Bracken  GF Asplenium flabellifolium Necklace Fern  SC Clematis aristata Mountain Clematis  SC Glycine clandestina Twining Glycine  SC Billardiera scandens var. scandens Common Apple-berry  SC Hardenbergia violacea Purple Coral-pea  **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  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**

Central Victorian Uplands 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 |

###### Recruitment:

Continuous

###### Organic Litter:

40 % cover

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 28: Rocky Outcrop Shrubland - Central Victorian Uplands bioregion | |
|  | **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**

Central Victorian Uplands 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.

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 obliqua | Messmate Stringybark |

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 29: Damp Forest – Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Olearia argophylla Musk Daisy-bush  T Acacia melanoxylon Blackwood  T Pomaderris aspera Hazel Pomaderris  MS Coprosma quadrifida Prickly Currant-bush  MS Acacia verticillata Prickly Moses  MS Prostanthera lasianthos Victorian Christmas-bush  PS Acrotriche serrulata Honey-pots  PS Acrotriche prostrata Trailing Ground-berry  LH Senecio minimus Shrubby Fireweed  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Geranium potentilloides Cinquefoil Cranesbill  MH Hydrocotyle hirta Hairy Pennywort  MH Acaena novae-zelandiae Bidgee-widgee  SH Hypericum japonicum Matted St John's Wort  SH Lobelia pedunculata s.l. Matted Pratia  SH Oxalis exilis Shady Wood-sorrel  SH Dichondra repens Kidney-weed  LTG Poa labillardierei Common Tussock-grass  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Lepidosperma elatius Tall Sword-sedge  LTG Carex appressa Tall Sedge  LNG Tetrarrhena juncea Forest Wire-grass  MTG Dianella tasmanica Tasman Flax-lily  MTG Poa morrisii Soft Tussock-grass  MTG Stylidium graminifolium s.l. Grass Trigger-plant  MNG Poa tenera Slender Tussock-grass  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Pteridium esculentum Austral Bracken  GF Blechnum nudum Fishbone Water-fern  GF Blechnum wattsii Hard Water-fern  GF Polystichum proliferum Mother Shield-fern  TRF Dicksonia antarctica Soft Tree-fern  TRF Cyathea australis Rough Tree-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**  MS Rubus fruticosus spp. agg. Blackberry high high LH Urtica urens Small Nettle high high MH Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low MTG Anthoxanthum odoratum Sweet Vernal-grass 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**

Central Victorian Uplands 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 regnans | Mountain Ash |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  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 |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 30: Wet Forest - Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia dealbata 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  **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 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**

Central Victorian Uplands bioregion

EVC 37: Montane Grassy Woodland

###### Description:

Occurs in montane elevations on moderately fertile soils on all aspects. An open eucalypt woodland to 10 m tall, sometimes with a secondary tree layer. The understorey often consists of a sparse shrub layer which can be variable in height. The EVC is characterised by its grassy ground cover together with a variety of other graminoids and herbs.

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

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 20% | Eucalyptus pauciflora  Eucalyptus dives Eucalyptus rubida | Snow Gum  Broad-leaved Peppermint Candlebark |

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 37: Montane Grassy Woodland - Central Victoria Uplands 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 Pultenaea juniperina s.l. Prickly Bush-pea  MS Pimelea linifolia Slender Rice-flower  MS Brachyloma daphnoides Daphne Heath  SS Hibbertia obtusifolia Grey Guinea-flower  SS Olearia erubescens Moth Daisy-bush  SS Leucopogon hookeri Mountain Beard-heath  PS Platylobium formosum Handsome Flat-pea  PS Acrotriche serrulata Honey-pots  LH Wahlenbergia stricta Tall Bluebell  MH Gonocarpus tetragynus Common Raspwort  MH Viola betonicifolia ssp. betonicifolia Showy Violet  MH Stellaria pungens Prickly Starwort  SH Chiloglottis gunnii s.l. Common Bird-orchid  SH Galium ciliare Hairy Bedstraw  SH Leptinella filicula Mountain Cotula  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Deyeuxia quadriseta Reed Bent-grass  MTG Dianella tasmanica Tasman Flax-lily  MTG Stylidium graminifolium s.l. Grass Trigger-plant  MTG Themeda triandra Kangaroo Grass  MTG Luzula meridionalis var. flaccida Common Woodrush  GF Polystichum proliferum Mother Shield-fern  GF Pteridium esculentum Austral Bracken  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 Cerastium glomeratum s.l. Common Mouse-ear Chickweed high low  MH Centaurium erythraea Common Centaury high low  MH Prunella vulgaris Self-heal high low MH Taraxacum officinale spp. agg. Garden Dandelion high low  SH Trifolium repens var. repens White Clover 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**

Central Victorian Uplands bioregion

EVC 45: Shrubby Foothill Forest

###### Description:

Occurs on ridges and mainly on southern and eastern slopes in association with Damp Forest or Wet Forest on moderately fertile soils and at a range of elevations. The overstorey is a medium eucalypt forest to 25 m tall over an understorey characterised by a distinctive middle strata dominated by a diversity of narrow-leaved shrubs and a paucity of ferns, graminoids and herbs in the ground stratum.

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

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Eucalyptus obliqua  Eucalyptus radiata ssp. radiata Eucalyptus dives  Eucalyptus rubida | Messmate Stringybark  Narrow-leaf Peppermint Broad-leaved Peppermint  Candlebark |

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 45: Shrubby Foothill Forest - Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Exocarpos cupressiformis Cherry Ballart  MS Epacris impressa Common Heath  MS Acacia mucronata ssp. longifolia Narrow-leaf Wattle  MS Acacia verticillata Prickly Moses  MS Pultenaea gunnii Golden Bush-pea  SS Olearia erubescens Moth Daisy-bush  SS k Pultenaea muelleri var. reflexifolia Mueller's Bush-pea  SS Acacia aculeatissima Thin-leaf Wattle  SS Dillwynia cinerascens s.l. Grey Parrot-pea  PS Acrotriche serrulata Honey-pots  PS Acrotriche prostrata Trailing Ground-berry  MH Gonocarpus tetragynus Common Raspwort  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Hydrocotyle hirta Hairy Pennywort  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Gahnia sieberiana Red-fruit Saw-sedge  LNG Tetrarrhena juncea Forest Wire-grass  MTG Poa sieberiana Grey Tussock-grass  MTG Joycea pallida Silvertop Wallaby-grass  MTG Lomandra filiformis Wattle Mat-rush  MTG Dianella tasmanica Tasman Flax-lily  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Pteridium esculentum Austral Bracken  SC Billardiera scandens Common Apple-berry  **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 30 years.  **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  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**

Central Victorian Uplands 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 25 m tall may carry a variety of eucalypts, usually species that 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** | **Character Species** | **Common Name** |
| 20% | Eucalyptus melliodora  Eucalyptus radiata s.l.  Eucalyptus obliqua Eucalyptus rubida | Yellow Box  Narrow-leaf Peppermint Messmate Stringybark 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 | 4 | 5% | SS |
| Prostrate Shrub | 2 | 1% | PS |
| Large Herb | 2 | 1% | LH |
| Medium Herb | 8 | 15% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Tufted Graminoid | 2 | 10% | LTG |
| Large Non-tufted Graminoid | 1 | 1% | LNG |
| Medium to Small Tufted Graminoid | 7 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 5% | MNG |
| Ground Fern | 1 | 5% | GF |
| Scrambler or Climber | 1 | 1% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 47: Valley Grassy Forest - Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia melanoxylon Blackwood  T Acacia dealbata Silver Wattle  MS Daviesia leptophylla Narrow-leaf Bitter-pea  MS Epacris impressa Common Heath  SS Hovea heterophylla Common Hovea  SS Pimelea humilis Common Rice-flower  SS Dillwynia cinerascens s.l. Grey Parrot-pea  SS Acacia aculeatissima Thin-leaf Wattle  PS Acrotriche serrulata Honey-pots  PS Bossiaea prostrata Creeping Bossiaea  LH Senecio tenuiflorus Slender Fireweed  LH Senecio quadridentatus Cotton Fireweed  MH Gonocarpus tetragynus Common Raspwort  MH Drosera peltata ssp. auriculata Tall Sundew  MH Burchardia umbellata Milkmaids  SH Opercularia varia Variable Stinkweed  SH Goodenia lanata Trailing Goodenia  LTG Poa labillardierei Common Tussock-grass  LTG Deyeuxia quadriseta Reed Bent-grass  MTG Lomandra filiformis Wattle Mat-rush  MTG Poa sieberiana Grey Tussock-grass  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  **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  20 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 Centaurium erythraea Common Centaury 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 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**

Central Victorian Uplands bioregion

EVC 48: Heathy Woodland

###### Description:

Spans a variety of geologies but is generally associated with nutrient-poor soils including deep uniform sands (aeolian or outwash) and Tertiary sand/clay which has been altered to form quartzite gravel. Eucalypt-dominated low woodland to 10 m tall lacking a secondary tree layer and generally supporting a diverse array of narrow or ericoid-leaved shrubs except where frequent fire has reduced this to a dense cover of bracken. Geophytes and annuals can be quite common but the ground cover is normally fairly sparse.

###### Large trees:

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

Eucalyptus spp. 60 cm 15 / ha

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus dives | Broad-leaved Peppermint |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Medium Shrub | 7 | 40% | MS |
| Small Shrub | 6 | 20% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Medium Herb | 4 | 5% | MH |
| Large Tufted Graminoid | 2 | 10% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 4 | 10% | MTG |
| Ground Fern | 1 | 1% | GF |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 48: Heathy Woodland – Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  MS Leptospermum continentale Prickly Tea-tree  MS Monotoca scoparia Prickly Broom-heath  MS Epacris impressa Common Heath  MS Banksia marginata Silver Banksia  SS Leucopogon virgatus Common Beard-heath  SS k Pultenaea muelleri var. reflexifolia Mueller's Bush-pea  SS Hovea heterophylla Common Hovea  SS Dillwynia sericea s.l. Showy Parrot-pea  MH Gonocarpus tetragynus Common Raspwort  MH Drosera peltata ssp. auriculata Tall Sundew  MH Hydrocotyle hirta Hairy Pennywort  LTG Lomandra longifolia Spiny-headed Mat-rush  LNG Tetrarrhena juncea Forest Wire-grass  MTG Poa sieberiana Grey Tussock-grass  MTG Lepidosperma tortuosum Tortuous Rapier-sedge  MTG Lepidosperma filiforme Common Rapier-sedge  GF Pteridium esculentum Austral Bracken  EP Cassytha glabella Slender Dodder-laurel  **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 20 years.  **Organic Litter:**  40 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  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**

Central Victorian Uplands bioregion

EVC 53: Swamp Scrub

##### Description:

Closed scrub to 8 m tall at low elevations on alluvial deposits along streams or on poorly drained sites with high nutrient and water availability. Soils vary from organic loams to fine silts and peats which are inundated during the wetter months of the year and is dominated by either Woolly Tea-tree Leptospermun lanigerum or Swamp Paperbark Melaleuca ericifolia which often form a dense impenetrable thicket, out-competing other species. Emergent trees (eg. Swamp Gum Eucalyptus ovata) may some times be present. Where light penetrates to ground level, a moss/lichen/liverwort herbaceous ground cover is often present.

##### Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 60% | Leptospermum lanigerum  Melaleuca squarrosa Acacia melanoxylon | Woolly Tea-tree  Scented Paperbark Blackwood |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Large Herb | 5 | 10% | LH |
| Medium Herb | 13 | 30% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Tufted Graminoid | 9 | 15% | LTG |
| Large Non-tufted Graminoid | 1 | 1% | LNG |
| Medium to Small Tufted Graminoid | 7 | 15% | MTG |
| Bryophytes/Lichens | na | 20% | BL |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  LH |  | **Species typical of at least part of EVC range**  Persicaria decipiens | **Common Name**  Slender Knotweed |
| LH |  | Villarsia reniformis | Running Marsh-flower |
| LH |  | Epilobium pallidiflorum | Showy Willow-herb |
| MH |  | Hydrocotyle pterocarpa | Wing Pennywort |
| MH |  | Lilaeopsis polyantha | Australian Lilaeopsis |
| MH |  | Hydrocotyle muscosa | Mossy Pennywort |
| SH |  | Lobelia pedunculata s.l. | Matted Pratia |
| SH |  | Crassula helmsii | Swamp Crassula |
| LTG |  | Juncus procerus | Tall Rush |
| LTG |  | Gahnia clarkei | Tall Saw-sedge |
| LTG |  | Deyeuxia quadriseta | Reed Bent-grass |
| LTG |  | Amphibromus recurvatus | Dark Swamp Wallaby-grass |
| MTG |  | Schoenus maschalinus | Leafy Bog-sedge |
| MTG | k | Lachnagrostis filiformis (perennial variety) | Wetland Blown-grass |
| MTG |  | Juncus planifolius | Broad-leaf Rush |

**Recruitment:**

Continuous

##### Organic Litter:

20% Cover

##### Weediness:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **LF Code**  LH | **Typical Weed Species**  Rumex crispus | **Common Name**  Curled Dock | **Invasive**  high | **Impact**  low |
| MH | Lotus suaveolens | Hairy Bird's-foot Trefoil | high | high |
| MH | Leontodon taraxacoides ssp. taraxacoides | Hairy Hawkbit | high | low |
| MH | Hypochoeris radicata | Cat's Ear | high | low |
| LNG | Holcus lanatus | Yorkshire Fog | high | high |
| MTG | Juncus bulbosus | Bulbous Rush | high | high |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 53: Swamp Scrub – Central Victorian Uplands bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Central Victorian Uplands bioregion

EVC 55: Plains Grassy Woodland

###### Description:

An open, eucalypt woodland to 15m 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.

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

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus viminalis  Eucalyptus ovata | Manna Gum  Swamp Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 3 | 10% | T |
| Medium Shrub | 3 | 5% | MS |
| Small Shrub | 4 | 10% | SS |
| Prostrate Shrub | 2 | 5% | PS |
| Medium Herb | 9 | 20% | MH |
| Small or Prostrate Herb | 4 | 5% | SH |
| Large Tufted Graminoid | 2 | 10% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 6 | 25% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Ground Fern | 1 | 1% | GF |
| Bryophytes/Lichens | na | 10% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 55: Plains Grassy Woodland - Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia melanoxylon Blackwood  T Exocarpos cupressiformis Cherry Ballart  MS Acacia pycnantha Golden Wattle  MS Acacia paradoxa Hedge Wattle  SS Pimelea humilis Common Rice-flower  SS Lissanthe strigosa ssp. subulata Peach Heath  SS Hibbertia stricta s.l. Upright Guinea-flower  SS Tetratheca ciliata Pink-bells  PS Acrotriche serrulata Honey-pots  PS Astroloma humifusum Cranberry Heath  MH Gonocarpus tetragynus Common Raspwort  MH Poranthera microphylla Small Poranthera  MH Hypericum gramineum Small St John's Wort  SH Hydrocotyle laxiflora Stinking Pennywort  SH Drosera whittakeri ssp. aberrans Scented Sundew  SH Solenogyne dominii Smooth Solenogyne  SH Opercularia ovata Broad-leaf Stinkweed  LTG Austrostipa mollis Supple Spear-grass  LTG Austrostipa rudis ssp. nervosa Veined Spear-grass  LNG Lepidosperma longitudinale Pithy Sword-sedge  MTG Lomandra filiformis Wattle Mat-rush  MTG Schoenus apogon Common Bog-sedge  MTG Themeda triandra Kangaroo Grass  MTG Dianella revoluta s.l. Black-anther Flax-lily  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Pteridium esculentum Austral Bracken  **Recruitment:**  Continuous  **Organic Litter:**  10 % 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 Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low MH Centaurium erythraea Common Centaury 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 Anthoxanthum odoratum Sweet Vernal-grass high high  MTG Romulea rosea Onion Grass high low  MTG Briza minor Lesser 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**

Central Victorian Uplands 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 | 3 | 10% | LTG |
| Large Non-tufted Graminoid | 2 | 10% | LNG |
| Medium to Small Tufted Graminoid | 3 | 10% | 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 |
| LTG | Poa labillardierei | Common Tussock-grass |
| LNG | Phragmites australis | Common Reed |
| MTG | Juncus amabilis | Hollow Rush |
| 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 - Central Victorian Uplands 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 high high  T Crataegus monogyna Hawthorn high high  MS Rosa rubiginosa Sweet Briar high high  MS Ulex europaeus Gorse high 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 low  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 low  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

Central Victorian Uplands bioregion

EVC 61: Box Ironbark Forest

Description:

Occurs on gently undulating rises, low hills and peneplains on infertile, often stony soils derived from a range of geologies. The open overstorey to 20 m tall consists of a variety of eucalypts, 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.  Eucalyptus (mallee) spp. | DBH(cm)  70 cm  30 cm | #/ha  15 / ha |

Tree Canopy Cover:

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

|  |  |  |  |
| --- | --- | --- | --- |
| Understorey: Life form | #Spp | %Cover | LF code |
| Immature Canopy Tree |  | 5% | IT |
| Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 6 | 25% | MS |
| Small Shrub | 2 | 5% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 2 | 1% | LH |
| Medium Herb | 5 | 10% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 7 | 15% | MTG |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |
| Total understorey projective foliage cover |  | 80% |  |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 61: Box Ironbark Forest - Central Victorian Uplands bioregion | |
|  | LF Code Species typical of at least part of EVC range Common Name  T Exocarpos cupressiformis Cherry Ballart  MT Eucalyptus behriana Bull Mallee  MS Acacia pycnantha Golden Wattle  MS Cassinia arcuata Drooping Cassinia  MS Brachyloma daphnoides Daphne Heath  MS Cassinia longifolia Shiny Cassinia  PS Astroloma humifusum Cranberry Heath  LH Senecio tenuiflorus Slender Fireweed  LH Wahlenbergia gracilis s.l. Sprawling Bluebell  MH Gonocarpus tetragynus Common Raspwort  MH Einadia hastata Saloop  MH Galium gaudichaudii Rough Bedstraw  SH Dichondra repens Kidney-weed  MTG Joycea pallida Silvertop Wallaby-grass  MTG Lomandra filiformis Wattle Mat-rush  MTG Dianella revoluta s.l. Black-anther Flax-lily  MTG Austrodanthonia setacea Bristly Wallaby-grass  Recruitment:  Continuous  Organic Litter:  20 % cover  Logs:  20 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  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 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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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Central Victorian Uplands bioregion

EVC 64: Rocky Chenopod Woodland

###### Description:

Low open woodland to 8 m tall with an understorey dominated by chenopod (saltbush) species. Occurs on ridge-tops and steep upper slopes of hills with skeletal duplex soils that tend to have a high salt content and are fairly porous or impervious to water.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species**  Eucalyptus spp. | **DBH(cm)**  60 cm | **#/ha**  10 / ha |

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 10% | Eucalyptus microcarpa  Eucalyptus leucoxylon Eucalyptus behriana | Grey Box  Yellow Gum Bull Mallee |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Understorey Tree or Large Shrub | **#Spp**  1 | **%Cover**  5% | **LF code**  T |
| Medium Shrub | 5 | 10% | MS |
| Small Shrub | 2 | 1% | SS |
| Medium Herb | 4 | 5% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Medium to Small Tufted Graminoid | 3 | 10% | MTG |
| Scrambler or Climber | 1 | 1% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 20% | S/C |
| **Total understorey projective foliage cover** |  | **60%** |  |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 64: Rocky Chenopod Woodland - Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Melaleuca lanceolata ssp. lanceolata Moonah  MS r Rhagodia parabolica Fragrant Saltbush  MS Acacia acinacea s.l. Gold-dust Wattle  MS Acacia pycnantha Golden Wattle  MS Cassinia longifolia Shiny Cassinia  SS Enchylaena tomentosa var. tomentosa Ruby Saltbush  MH Einadia hastata Saloop  MH Einadia nutans ssp. nutans Nodding Saltbush  SH Dichondra repens Kidney-weed  SH Carpobrotus modestus Inland Pigface  SH Crassula sieberiana Sieber Crassula  SH Calandrinia calyptrata Pink Purslane  MTG Dianella revoluta s.l. Black-anther Flax-lily  MTG Austrodanthonia setacea Bristly Wallaby-grass  EP Amyema miquelii Box Mistletoe  SC Clematis microphylla Small-leaved Clematis  **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 African Box-thorn low high  LH Sonchus asper s.l. Rough Sow-thistle high low  MH Centaurium erythraea Common Centaury high low  MH Anagallis arvensis Pimpernel high low  MTG Ehrharta longiflora Annual Veldt-grass high low SC Asparagus asparagoides Bridal Creeper 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**

Central Victorian Uplands 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**  10 / ha |

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | v Eucalyptus leucoxylon ssp. connata  Eucalyptus camaldulensis | Melbourne Yellow-gum  River Red-gum |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia mearnsii | **Common Name**  Black Wattle |
| T | Acacia melanoxylon | Blackwood |
| MS | Acacia pycnantha | Golden Wattle |
| MS | Leptospermum continentale | Prickly Tea-tree |
| MS | Acacia paradoxa | Hedge Wattle |
| PS | Astroloma humifusum | Cranberry Heath |
| LH | Senecio tenuiflorus | Slender Fireweed |
| LH | Senecio quadridentatus | Cotton Fireweed |
| MH | Einadia hastata | Saloop |
| MH | Veronica plebeia | Trailing Speedwell |
| MH | Stellaria pungens | Prickly Starwort |
| SH | Hydrocotyle laxiflora | Stinking Pennywort |
| SH | Cymbonotus preissianus | Austral Bear's-ear |
| SH | Myriophyllum integrifolium | Tiny Water-milfoil |
| SH | Phyllangium divergens | Wiry Mitrewort |
| LTG | Xanthorrhoea minor ssp. lutea | Small Grass-tree |
| 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 | Tricoryne elatior | Yellow Rush-lily |
| MNG | Poa tenera | Slender Tussock-grass |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| TTG | Centrolepis fascicularis | Tufted Centrolepis |
| TTG | Centrolepis aristata | Pointed Centrolepis |
| TTG | Aphelia pumilio | Dwarf Aphelia |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 67: Alluvial Terraces Herb-rich Woodland - Central Victorian Uplands bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  10 % 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 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**

Central Victorian Uplands 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 | 3 | 15% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 15 | 30% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 5% | MNG |
| Bryophytes/Lichens | na | 10% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 68: Creekline Grassy Woodland - Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia dealbata 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 Poa labillardierei Common Tussock-grass  LTG Carex appressa Tall Sedge  LNG Phragmites australis Common Reed  MTG Elymus scaber var. scaber Common Wheat-grass  MTG Juncus spp. Rush  MTG Cyperus spp. Flat-sedge  MNG Microlaena stipoides var. stipoides Weeping Grass  **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**

Central Victorian Uplands bioregion

EVC 70: Hillcrest Herb-rich Woodland

###### Description:

Restricted to low rainfall areas and occurs on broad, flat hilltops and ridgelines and upper slopes of undulating rises and rolling hills at low elevations. The flatness of the ridgetops allows for the formation of deeper soils derived from Ordovician sediments and together with clayey sub-soils found in pockets in fractured sedimentary rock, results in better growing conditions than on the surrounding slopes. The overstorey is sparse and consists of low spreading eucalypts to 10 m tall. The medium shrub layer is usually absent while the ground layer has a diverse array of grasses and herbs partly due to protection offered by the easterly aspect.

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

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus melliodora  Eucalyptus goniocalyx s.s. | Yellow Box  Bundy |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 2 | 5% | T |
| Medium Shrub | 2 | 5% | MS |
| Small Shrub | 1 | 1% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 4 | 10% | LH |
| Medium Herb | 14 | 20% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Medium to Small Tufted Graminoid | 9 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 5% | MNG |
| Tiny Tufted Graminoid\* | 3 | 5% | TTG |
| Ground Fern | 1 | 5% | GF |
| Scrambler or Climber | 2 | 1% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| \*Largely seasonal life form |  |  |  |

**Recruitment:**

Continuous

###### Organic Litter:

20 % cover

###### Logs:

15 m/0.1 ha.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 70: Hillcrest Herb-rich Woodland - Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia mearnsii Black Wattle  T Exocarpos cupressiformis Cherry Ballart  MS Brachyloma daphnoides Daphne Heath  MS Acacia paradoxa Hedge Wattle  SS Hibbertia crinita Hoary Guinea-flower  PS Astroloma humifusum Cranberry Heath  LH Senecio quadridentatus Cotton Fireweed  LH Wahlenbergia stricta Tall Bluebell  LH Chrysocephalum semipapposum Clustered Everlasting  MH Gonocarpus elatus Tall Raspwort  MH Stackhousia monogyna Creamy Stackhousia  MH Pelargonium rodneyanum Magenta Stork’s-bill  MH Xerochrysum viscosum Shiny Everlasting  SH Hydrocotyle laxiflora Stinking Pennywort  SH Hyalosperma demissum Moss Sunray  SH Kennedia prostrata Running Postman  SH Carpobrotus modestus Inland Pigface  LTG Austrostipa mollis Supple Spear-grass  MTG Austrostipa scabra ssp. falcata Rough Spear-grass  MTG Schoenus apogon Common Bog-sedge  MTG Neurachne alopecuroidea Fox-tail Mulga-grass  TTG Centrolepis strigosa ssp. strigosa Hairy Centrolepis  TTG Centrolepis cephaloformis ssp. cephaloformis Cushion Centrolepis  TTG Centrolepis aristata Pointed Centrolepis  TTG Isolepis marginata Little Club-sedge  GF Cheilanthes austrotenuifolia Green Rock-fern  SC Thysanotus patersonii Twining Fringe-lily  SC Drosera macrantha Climbing Sundew  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Carduus tenuiflorus Winged Thistle high low  MH Hypochoeris glabra Smooth Cat's-ear high low  MH Anagallis arvensis Pimpernel high low MH Trifolium arvense var. arvense Hare's-foot Clover high low  MH Trifolium campestre var. campestre Hop Clover high low  MH Petrorhagia velutina Velvety Pink high low  MH Galium murale Small Goosegrass high low  MH Parentucellia latifolia Red Bartsia high low  MH Arctotheca calendula Cape Weed high low  MH Hypochoeris radicata Cat's Ear high low  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 Bromus hordeaceus ssp. hordeaceus Soft Brome high low  MNG Avena barbata Bearded Oat high low  MNG Aira elegantissima Delicate Hair-grass high low  MNG Bromus madritensis Madrid Brome high low  MNG Vulpia myuros Rat's-tail Fescue high low  Published by the Victorian Government Department of Sustainability and Environment September 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**

Central Victorian Uplands bioregion

EVC 71: Hills Herb-rich Woodland

###### Description:

A dry, open eucalypt woodland to 15 m tall often with a sparse shrub layer. The understorey is dominated by a carpet of herbs and grasses. Soils are generally shallow but fertile, and outcropping rock is not uncommon. This seasonally dry environment is favourable for annual herbs, with the fertile nature of the various geologies also supporting perennial herbs. Landform can vary from relatively flat ground to ridge tops on sedimentary sandstones (along seams of mineral-rich sandstone) to undulating, rounded, granite hill landforms.

|  |  |  |
| --- | --- | --- |
| **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 camaldulensis | Grey Box  Yellow Box River Red-gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 4 | 10% | MS |
| Small Shrub | 2 | 1% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 1 | 5% | LH |
| Medium Herb | 4 | 5% | MH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 8 | 25% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 5% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **75%** |  |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 71: Hills Herb-rich Woodland - Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Allocasuarina verticillata Drooping Sheoak  MS Acacia pycnantha Golden Wattle  MS Acacia paradoxa Hedge Wattle  MS Ozothamnus obcordatus Grey Everlasting  PS Bossiaea prostrata Creeping Bossiaea  MH Hypericum gramineum Small St John's Wort  MH Gonocarpus tetragynus Common Raspwort  MTG Poa sieberiana Grey Tussock-grass  MTG Lomandra filiformis Wattle Mat-rush  MTG Themeda triandra Kangaroo Grass  MTG Tricoryne elatior Yellow Rush-lily  MNG Microlaena stipoides var. stipoides Weeping Grass  **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  15 m/0.1 ha.  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**

Central Victorian Uplands 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**  Eucalyptus spp. | **DBH(cm)**  60 cm | **#/ha**  15 / ha |

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus macrorhyncha  Eucalyptus goniocalyx s.l. | Red Stringybark  Bundy |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 5 | 5% | MS |
| Large Herb | 4 | 10% | LH |
| Medium Herb | 9 | 15% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Medium to Small Tufted Graminoid | 11 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 1% | MNG |
| 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** |  | **85%** |  |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 72: Granitic Hills Woodland - Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Exocarpos cupressiformis Cherry Ballart  T Acacia mearnsii Black Wattle  MS Brachyloma daphnoides Daphne Heath  MS Grevillea alpina Cat's Claw Grevillea  MS Indigofera australis Austral Indigo  MS Acacia verniciflua Varnish Wattle  SS Dillwynia sericea s.l. Showy Parrot-pea  PS Acrotriche serrulata Honey-pots  LH Stypandra glauca Nodding Blue-lily  LH Wahlenbergia stricta Tall Bluebell  LH Senecio quadridentatus Cotton Fireweed  LH Senecio hispidulus Rough Fireweed  MH Gonocarpus elatus Tall Raspwort  MH Senecio hispidulus var. dissectus Rough Fireweed  MH Isotoma axillaris Rock Isotome  MH Geranium solanderi s.l. Austral Cranesbill  SH Hydrocotyle laxiflora Stinking Pennywort  SH Crassula sieberiana Sieber Crassula  SH Cymbonotus preissianus Austral Bear's-ear  MTG Joycea pallida Silvertop Wallaby-grass  MTG Poa sieberiana Grey Tussock-grass  MTG Lomandra filiformis Wattle Mat-rush  MTG Luzula meridionalis var. flaccida Common Woodrush  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Hemarthria uncinata var. uncinata Mat Grass  TTG Centrolepis strigosa ssp. strigosa Hairy Centrolepis  GF Cheilanthes austrotenuifolia Green Rock-fern  GF Pteridium esculentum Austral Bracken  GF Cheilanthes sieberi ssp. sieberi Narrow Rock-fern  EP Amyema pendula Drooping Mistletoe  SC Hardenbergia violacea Purple Coral-pea  SC Comesperma volubile Love Creeper  SC Thysanotus patersonii Twining Fringe-lily  **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Carduus pycnocephalus Slender Thistle high high  MH Hypochoeris radicata Cat's Ear high low MH Centaurium erythraea Common Centaury high low  MH Anagallis arvensis Pimpernel high low MH Trifolium arvense var. arvense Hare's-foot Clover high low  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 diandrus Great Brome high low  MNG Aira spp. Hair Grass high low MNG Aira elegantissima Delicate Hair-grass 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**

Central Victorian Uplands bioregion

EVC 80: Spring Soak Woodland

###### Description:

Woodland to 10m 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** |
| 15% | Eucalyptus blakelyi  Eucalyptus polyanthemos | Blakely's Red-gum  Red Box |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 3 | 10% | MS |
| Small Shrub | 3 | 5% | SS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 10 | 25% | MH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 15 | 25% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Ground Fern | 1 | 5% | GF |
| Bryophytes/Lichens | na | 20% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia implexa | **Common Name**  Lightwood |
| MS | Calytrix tetragona | Common Fringe-myrtle |
| MS | Acacia pycnantha | Golden Wattle |
| MS | Acacia mitchellii | Mitchell's Wattle |
| SS | Hibbertia riparia | Erect Guinea-flower |
| SS | Pultenaea prostrata | Silky Bush-pea |
| SS | Dillwynia sericea s.l. | Showy Parrot-pea |
| MH | Crassula decumbens var. decumbens | Spreading Crassula |
| MH | Hypericum gramineum | Small St John's Wort |
| LTG | Austrostipa nodosa | Knotty Spear-grass |
| MTG | Lomandra filiformis | Wattle Mat-rush |
| MTG | Poa morrisii | Soft Tussock-grass |
| MTG | Arthropodium strictum s.l. | Chocolate Lily |
| MTG | Chamaescilla corymbosa var. corymbosa | Blue Stars |
| GF | Cheilanthes sieberi ssp. sieberi | Narrow Rock-fern |
| SC | Thysanotus patersonii | Twining Fringe-lily |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 80: Spring Soak Woodland - Central Victorian Uplands bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  5 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Solanum nigrum sensu Willis (1972) Black Nightshade high high LH Dittrichia graveolens Stinkwort high high  MH Hypochoeris radicata Cat's Ear high low  MH Arctotheca calendula Cape Weed high low  MH Cicendia filiformis Slender Cicendia high low MH Cicendia quadrangularis Square Cicendia high low MH Vellereophyton dealbatum White Cudweed high low  MH Hypochoeris glabra Smooth Cat's-ear high low  MH Moenchia erecta Erect Chickweed high low  MH Acetosella vulgaris Sheep Sorrel high high  MH Anagallis arvensis Pimpernel high low  SH Soliva sessilis Jo Jo 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 Lolium perenne Perennial Rye-grass high high  MTG Poa annua Annual Meadow-grass high low  MTG Briza minor Lesser Quaking-grass high low  MTG Ehrharta longiflora Annual Veldt-grass high low  MTG Briza maxima Large Quaking-grass high low  MNG Avena barbata Bearded Oat high low  MNG Aira spp. Hair Grass high low  MNG Juncus capitatus Capitate Rush high low  MNG Aira caryophyllea Silvery Hair-grass high low  TTG Isolepis hystrix Awned Club-sedge 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**

Central Victorian Uplands 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** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Shrub |  | 5% | IT |
| Medium Shrub | 8 | 30% | MS |
| Small Shrub | 2 | 1% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 12 | 20% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Large Tufted Graminoid | 4 | 15% | LTG |
| Medium to Small Tufted Graminoid | 3 | 10% | 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 |
| SS | 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 |
| LTG | 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 - Central Victorian Uplands 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 high high  MS Rubus sp. aff. armeniacus Blackberry high high  MS Rubus fruticosus spp. agg. Blackberry high high  MH Hypochoeris radicata Cat's Ear high low MH Centaurium erythraea Common Centaury high low  MH Prunella vulgaris Self-heal 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**

Central Victorian Uplands 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** |
| 20% | Eucalyptus globulus ssp. bicostata  Eucalyptus ovata | Eurabbie  Swamp Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 3 | 10% | T |
| Medium Shrub | 3 | 5% | MS |
| Small Shrub | 1 | 1% | SS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 7 | 15% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Tufted Graminoid | 5 | 10% | LTG |
| Large Non-tufted Graminoid | 3 | 15% | LNG |
| Medium to Small Tufted Graminoid | 9 | 15% | MTG |
| Medium to Tiny Non-tufted Graminoid | 5 | 15% | MNG |
| Ground Fern | 4 | 10% | GF |
| Bryophytes/Lichens | na | 20% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia pravissima | **Common Name**  Ovens Wattle |
| T | Acacia melanoxylon | Blackwood |
| MS | Dodonaea viscosa ssp. angustissima | Slender Hop-bush |
| MS | Leptospermum lanigerum | Woolly Tea-tree |
| MS | Dodonaea viscosa | Sticky Hop-bush |
| SS | Rubus parvifolius | Small-leaf Bramble |
| LH | Persicaria hydropiper | Water Pepper |
| LH | Wahlenbergia gracilis s.l. | Sprawling Bluebell |
| MH | Hypericum gramineum | Small St John's Wort |
| LTG | Juncus sarophorus | Broom Rush |
| LTG | Lomandra longifolia | Spiny-headed Mat-rush |
| LTG | Carex appressa | Tall Sedge |
| LTG | Poa labillardierei | Common Tussock-grass |
| LNG | Phragmites australis | Common Reed |
| MTG | Themeda triandra | Kangaroo Grass |
| MTG | Lomandra filiformis | Wattle Mat-rush |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| MNG | Isolepis habra | Wispy Club-sedge |
| MNG | Cyperus sphaeroideus | Globe Kyllinga |
| GF | Blechnum nudum | Fishbone Water-fern |
| GF | Pteridium esculentum | Austral Bracken |
| GF | Blechnum minus | Soft Water-fern |
| GF | Adiantum aethiopicum | Common Maidenhair |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 83: Swampy Riparian Woodland - Central Victorian Uplands bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Rosa rubiginosa Sweet Briar high high  MS Rubus fruticosus spp. agg. Blackberry high high LH Sonchus oleraceus Common Sow-thistle high low  LH Rumex crispus Curled Dock high low  LH Carduus pycnocephalus Slender Thistle high high  LH Conyza bonariensis Flaxleaf Fleabane high low  LH Cirsium vulgare Spear Thistle high high  LH Verbascum virgatum Twiggy Mullein high high LH Solanum nigrum sensu Willis (1972) Black Nightshade high low  LH Silybum marianum Variegated Thistle high high  MH Hypochoeris radicata Cat's Ear high low  MH Acetosella vulgaris Sheep Sorrel high high  MH Centaurium erythraea Common Centaury high low  MH Lotus corniculatus Bird's-foot Trefoil high high  MH Anagallis arvensis Pimpernel high low  MH Rorippa nasturtium-aquaticum Watercress high high MH Mimulus moschatus Musk Monkey-flower high high  MH Petrorhagia velutina Velvety Pink high low  SH Callitriche stagnalis Common Starwort high high SH Trifolium repens var. repens White Clover high high  LTG Phalaris aquatica Toowoomba Canary-grass high high  LNG Holcus lanatus Yorkshire Fog high high  LNG Avena spp. Oat high low  MTG Briza maxima Large Quaking-grass high low  MTG Bromus diandrus Great Brome high low  MTG Paspalum dilatatum Paspalum high high  MTG Cyperus eragrostis Drain Flat-sedge high high  MTG Vulpia bromoides Squirrel-tail Fescue high low  MTG Setaria viridis Green Pigeon-grass high low  MTG Briza minor Lesser Quaking-grass high low MTG Ehrharta erecta var. erecta Panic Veldt-grass high high  MNG Cynosurus echinatus Rough Dog's-tail high low  MNG Paspalum distichum Water Couch high high  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**

Central Victorian Uplands bioregion

EVC 125: Plains Grassy Wetland

###### Description:

This EVC is usually treeless, but in some instances can include sparse River Red Gum Eucalyptus camaldulensis or Swamp Gum Eucalyptus ovata. A sparse shrub component may also be present. The characteristic ground cover is dominated by grasses and small sedges and herbs. The vegetation is typically species-rich on the outer verges but is usually species-poor in the

wetter central areas.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Large Herb | 5 | 5% | LH |
| Medium Herb | 6 | 10% | MH |
| Small or Prostrate Herb | 3 | 10% | SH |
| Large Tufted Graminoid | 3 | 15% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 8 | 30% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 10% | MNG |
| Bryophytes/Lichens | na | 10% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  LH | **Species typical of at least part of EVC range**  Epilobium billardierianum | **Common Name**  Variable Willow-herb |
| LH | Villarsia reniformis | Running Marsh-flower |
| LH | Epilobium billardierianum ssp. cinereum | Grey Willow-herb |
| MH | Potamogeton tricarinatus s.l. | Floating Pondweed |
| MH | Lilaeopsis polyantha | Australian Lilaeopsis |
| MH | Utricularia dichotoma s.l. | Fairies' Aprons |
| SH | Eryngium vesiculosum | Prickfoot |
| SH | Neopaxia australasica | White Purslane |
| SH | Lobelia pratioides | Poison Lobelia |
| LTG | Juncus flavidus | Gold Rush |
| LTG | Deyeuxia quadriseta | Reed Bent-grass |
| LTG | Amphibromus nervosus | Common Swamp Wallaby-grass |
| LTG | Poa labillardierei | Common Tussock-grass |
| MTG | Triglochin procerum s.l. | Water Ribbons |
| MTG | Glyceria australis | Australian Sweet-grass |
| MTG | Juncus holoschoenus | Joint-leaf Rush |
| 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:

20% cover

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Weediness: LF Code** | **Typical Weed Species** | **Common Name** | **Invasive** | **Impact** |
| LH MH  MH LTG  LNG MTG  MTG TTG | Cirsium vulgare  Leontodon taraxacoides ssp. taraxacoides Hypochoeris radicata  Phalaris aquatica  Holcus lanatus Briza minor  Romulea rosea Cyperus tenellus | Spear Thistle Hairy Hawkbit  Cat's Ear  Toowoomba Canary-grass Yorkshire Fog  Lesser Quaking-grass  Onion Grass Tiny Flat-sedge | high high  high high  high high  high high | high low  low high  high low  low low |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 125: Plains Grassy Wetland – Central Victorian Uplands bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Central Victorian Uplands bioregion

EVC 127: Valley Heathy Forest

###### Description:

A low, open forest to 15 m tall with a sedgy/grassy understorey with a component of small ericoid shrubs and grass-trees. Soil and moisture factors are critical in delimiting the vegetation.

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

###### Tree Canopy Cover:

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

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 127: Valley Heathy Forest - Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Exocarpos cupressiformis Cherry Ballart  MS Epacris impressa Common Heath  MS Cassinia aculeata Common Cassinia  MS Daviesia leptophylla Narrow-leaf Bitter-pea  MS Cassinia arcuata Drooping Cassinia  SS Platylobium obtusangulum Common Flat-pea  SS Dillwynia cinerascens s.l. Grey Parrot-pea  SS Hovea heterophylla Common Hovea  SS Pimelea humilis Common Rice-flower  PS Acrotriche serrulata Honey-pots  PS Bossiaea prostrata Creeping Bossiaea  MH Leptorhynchos tenuifolius Wiry Buttons  MH Gonocarpus tetragynus Common Raspwort  MH Helichrysum scorpioides Button Everlasting  SH Opercularia varia Variable Stinkweed  SH Drosera whittakeri ssp. aberrans Scented Sundew  SH Oxalis corniculata s.l. Yellow Wood-sorrel  LTG Xanthorrhoea minor ssp. lutea Small Grass-tree  LTG Deyeuxia quadriseta Reed Bent-grass  LNG Gahnia radula Thatch Saw-sedge  MTG Lomandra filiformis Wattle Mat-rush  MTG Joycea pallida Silvertop Wallaby-grass  MTG Poa morrisii Soft Tussock-grass  MTG Dianella revoluta s.l. Black-anther Flax-lily  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Lindsaea linearis Screw Fern  SC Billardiera scandens Common Apple-berry  SC Hardenbergia violacea Purple Coral-pea  **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 30 years.  **Organic Litter:**  40 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  T Pinus radiata Radiata Pine low high MS Rubus fruticosus spp. agg. Blackberry high high  LH Plantago lanceolata Ribwort high low  MH Hypochoeris radicata Cat's Ear high low  MTG Briza maxima Large Quaking-grass high low MTG Anthoxanthum odoratum Sweet Vernal-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**

Central Victorian Uplands bioregion

EVC 128: Grassy Forest

###### Description:

Low growing forest to 20 m tall with an understorey of small and medium shrubs and a rich diversity of herbs. Large shrubs and understorey trees may also be conspicuous. Often grows in areas transitional between drier box stringybark forests and taller herb-rich forests typical of more favourable environments.

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

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus obliqua  Eucalyptus rubida Eucalyptus radiata s.l. | Messmate Stringybark  Candlebark  Narrow-leaf Peppermint |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 3 | 10% | MS |
| Small Shrub | 4 | 5% | SS |
| Prostrate Shrub | 2 | 1% | PS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 10 | 15% | MH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 9 | 30% | MTG |
| Scrambler or Climber | 2 | 1% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| **Total understorey projective foliage cover** |  | **80%** |  |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 128: Grassy Forest - Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  MS Epacris impressa Common Heath  MS Daviesia leptophylla Narrow-leaf Bitter-pea  MS Pultenaea gunnii Golden Bush-pea  SS Hovea heterophylla Common Hovea  SS Dillwynia cinerascens s.l. Grey Parrot-pea  SS Leucopogon virgatus Common Beard-heath  SS Tetratheca ciliata Pink-bells  PS Acrotriche serrulata Honey-pots  PS Platylobium formosum Handsome Flat-pea  LH Senecio tenuiflorus Slender Fireweed  LH Senecio glomeratus Annual Fireweed  LH Wahlenbergia gymnoclada Naked Bluebell  MH Helichrysum scorpioides Button Everlasting  MH Poranthera microphylla Small Poranthera  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Gonocarpus tetragynus Common Raspwort  SH Opercularia varia Variable Stinkweed  MTG Poa sieberiana Grey Tussock-grass  MTG Lomandra filiformis Wattle Mat-rush  MTG Dichelachne sciurea spp. agg. Short-hair Plume-grass  MTG Stylidium graminifolium s.l. Grass Trigger-plant  GF Pteridium esculentum Austral Bracken  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**  T Pinus radiata Radiata Pine low high  MH Hypochoeris radicata Cat's Ear high low MTG Anthoxanthum odoratum Sweet Vernal-grass high high  MTG Agrostis capillaris s.l. Brown-top Bent 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**

Central Victorian Uplands bioregion

EVC 132: Plains Grassland

###### Description:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** Small Shrub | **#Spp**  1 | **%Cover**  1% | **LF code**  SS |
| Large Herb | 3 | 10% | LH |
| Medium Herb | 10 | 20% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 13 | 50% | MTG |
| Medium to Tiny Non-tufted Graminoid | 4 | 10% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

|  |  |  |
| --- | --- | --- |
| **LF Code**  LH | **Species typical of at least part of EVC range**  Eryngium ovinum | **Common Name**  Blue Devil |
| LH  MH MH MH MH SH SH LTG MTG | Senecio quadridentatus  Calocephalus citreus Acaena echinata  Leptorhynchos squamatus Geranium retrorsum s.l.  Solenogyne dominii Lobelia pratioides Austrostipa bigeniculata  Themeda triandra | Cottony Fireweed  Lemon Beauty-heads Sheep's Burr  Scaly Buttons Grassland Crane’s-bill  Smooth Solenogyne Poison Lobelia Kneed Spear-grass  Kangaroo Grass |
| MTG | Austrodanthonia caespitosa | Common Wallaby-grass |
| MTG MTG  MNG | Elymus scaber var. scaber Schoenus apogon  Microlaena stipoides var. stipoides | Common Wheat-grass Common Bog-sedge  Weeping Grass |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 132: Plains Grassland - Central Victorian Uplands bioregion | |
|  | **Recruitment:**  Episodic/Fire or Grazing. Desirable period between disturbances is 5 years.  **Organic Litter:**  10% cover  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Plantago lanceolata Ribwort high low  LH Cirsium vulgare Spear Thistle high high  LH Sonchus oleraceus Common Sow-thistle high low  MH Hypochoeris radicata Cat's Ear high low MH Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low  MH Trifolium subterraneum Subterranean Clover high low  MH Plantago coronopus Buck's-horn Plantain high low  MH Trifolium striatum Knotted Clover high low  MH Trifolium dubium Suckling Clover high low  LTG Phalaris aquatica Toowoomba Canary-grass high high  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 Bromus hordeaceus ssp. hordeaceus Soft Brome high low  MTG Briza maxima Large Quaking-grass high low  MTG Lolium rigidum Wimmera Rye-grass high low  MTG Lolium perenne Perennial Rye-grass high low  MTG Nassella neesiana Chilean Needle-grass high high  MNG Cynosurus echinatus Rough Dog's-tail high low  MNG Juncus capitatus Capitate Rush 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**

Central Victorian Uplands bioregion

EVC 134: Sand Forest

###### Description:

Eucalypt forest to 20 m tall occurring on deep, low fertility sand deposits subject to high fire frequency. The understorey is visually dominated by Austral Bracken and the overall diversity is low.

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

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus viminalis ssp. cygnetensis | Rough-barked Manna-gum |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia mearnsii | **Common Name**  Black Wattle |
| MS | Leptospermum continentale | Prickly Tea-tree |
| MS | Brachyloma daphnoides | Daphne Heath |
| MS | Acacia paradoxa | Hedge Wattle |
| SS | Astroloma conostephioides | Flame Heath |
| PS | Bossiaea prostrata | Creeping Bossiaea |
| PS | Astroloma humifusum | Cranberry Heath |
| MH | Goodenia geniculata | Bent Goodenia |
| MH | Gonocarpus tetragynus | Common Raspwort |
| LTG | Xanthorrhoea australis | Austral Grass-tree |
| MTG | Lomandra filiformis | Wattle Mat-rush |
| MTG | Austrodanthonia geniculata | Kneed Wallaby-grass |
| MTG | Lomandra nana | Dwarf Mat-rush |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| GF | Pteridium esculentum | Austral Bracken |

**Recruitment:**

Continuous

###### Organic Litter:

40 % cover

###### Logs:

15 m/0.1 ha.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 134: Sand Forest – Central Victorian Uplands bioregion | |
|  | **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  LNG Holcus lanatus Yorkshire Fog high high  MNG Vulpia bromoides Squirrel-tail Fescue high low  MNG Briza minor Lesser Quaking-grass high low  MNG Briza maxima Large Quaking-grass high low  MNG Aira elegantissima Delicate Hair-grass high low  MNG Holcus setosus Annual Fog high low  MNG Aira praecox Early 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**

Central Victorian Uplands bioregion

EVC 136: Sedge Wetland

###### Description:

Occupies seasonal wetlands and consists of generally treeless vegetation dominated by sedges. May contain a fringe of shrubs and isolated shrubs may also be present throughout. Usually of low diversity in central areas, but richer on verges and in some more ephemeral forms of the EVC. Frequently on soils of high organic content and in depressions within sandy terrain.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Large Herb | 2 | 5% | LH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Large Non-tufted Graminoid | 2 | 40% | LNG |
| Medium to Small Tufted Graminoid | 1 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 5% | MNG |
| **Total understorey projective foliage cover** |  | **55%** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  LH |  | **Species typical of at least part of EVC range**  Villarsia reniformis | **Common Name**  Running Marsh-flower |
| LH | v | Thelymitra circumsepta | Naked Sun-orchid |
| SH |  | Lobelia pratioides | Poison Lobelia |
| LTG |  | Deyeuxia quadriseta | Reed Bent-grass |
| LNG |  | Lepidosperma longitudinale | Pithy Sword-sedge |
| LNG |  | Baumea rubiginosa s.l. | Soft Twig-rush |
| MTG |  | Lachnagrostis filiformis var. filiformis | Common Blown-grass |
| MNG |  | Chorizandra cymbaria s.l. | Heron Bristle-sedge |

###### Recruitment:

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Weediness:** |  | | | |
| **LF Code** | **Typical Weed Species** | **Common Name** | **Invasive** | **Impact** |
| MH  MH LNG | Leontodon taraxacoides ssp. taraxacoides  Hypochoeris radicata Holcus lanatus | Hairy Hawkbit  Cat's Ear Yorkshire Fog | high  high high | low  low low |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 136: Sedge Wetland - Central Victorian Uplands bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Central Victorian Uplands bioregion

EVC 164: Creekline Herb-rich Woodland

###### Description:

Woodland or open forest to 15 m tall occurring on creek terraces and along shallow drainage lines with ephemeral flows. Soils are mostly alluvial deposits of seasonally wet sands and silts. Characterised by a sparse shrub layer above a grassy/sedgy understorey, often rich in herbs within the inter-tussock spaces.

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

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus ovata  Eucalyptus viminalis Eucalyptus radiata ssp. radiata | Swamp Gum  Manna Gum  Narrow-leaf Peppermint |

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 164: Creekline Herb-rich Woodland - Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia melanoxylon Blackwood  T Acacia dealbata Silver Wattle  MS Bursaria spinosa Sweet Bursaria  MS Pultenaea daphnoides Large-leaf Bush-pea  MS Leptospermum continentale Prickly Tea-tree  PS Acrotriche serrulata Honey-pots  LH Senecio linearifolius Fireweed Groundsel  MH Acaena novae-zelandiae Bidgee-widgee  MH Stellaria pungens Prickly Starwort  MH Geranium potentilloides Cinqefoil  SH Dichondra repens Kidneyweed  LTG Poa labillardierei Common Tussock-grass  LNG Gahnia radula Thatch Saw-sedge  MTG Luzula meridionalis var. flaccida Common Woodrush  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Pteridium esculentum Austral Barcken  GF Adiantum aethiopicum Common Maidehair  **Recruitment:**  Continuous  **Organic Litter:**  20 % 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 MTG Anxothanthum odoratum Sweet Vernal Grass 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**

Central Victorian Uplands bioregion

EVC 175\_61: 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 plains or undulating hills on a range of geologies.

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

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover**  15% | **Character Species**  Eucalyptus polyanthemos | **Common Name**  Red Box |
|  | Eucalyptus viminalis | Manna Gum |
|  | Eucalyptus yarraensis | Yarra Gum |
|  | Eucalyptus pauciflora | Snow Gum |
|  | Eucalyptus ovata | Swamp Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 2 | 15% | MS |
| Small Shrub | 1 | 1% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Medium Herb | 8 | 20% | MH |
| Small or Prostrate Herb | 3 | 10% | SH |
| Medium to Small Tufted Graminoid | 8 | 40% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Bryophytes/Lichens | na | 10% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Allocasuarina littoralis | **Common Name**  Black Sheoak |
| T | Allocasuarina verticillata | Drooping Sheoak |
| MS | Acacia pycnantha | Golden Wattle |
| MS | Acacia paradoxa | Hedge Wattle |
| SS | Pimelea humilis | Common Rice-flower |
| PS | Bossiaea prostrata | Creeping Bossiaea |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Drosera peltata ssp. auriculata | Tall Sundew |
| SH | Dichondra repens | Kidney-weed |
| SH | Opercularia varia | Variable Stinkweed |
| SH | Drosera whittakeri ssp. aberrans | Scented Sundew |
| MTG | Lepidosperma filiforme | Common Rapier-sedge |
| MTG | Lomandra filiformis | Wattle Mat-rush |
| MTG | Poa sieberiana | Grey Tussock-grass |
| MTG | Dianella revoluta s.l. | Black-anther Flax-lily |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 175\_61: Grassy Woodland - Central Victorian Uplands bioregion | |
|  | **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 MTG Briza maxima Large Quaking-grass high low  MTG Romulea rosea Onion Grass high low  MTG Briza minor Lesser Quaking-grass high low  MNG Vulpia myuros Rat's-tail Fescue 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**

Central Victorian Uplands bioregion

EVC 175\_62: Granitic Grassy Woodland

###### Description:

A variable eucalypt woodland or open forest to 15 m tall over a distinct large and medium shrub layer and diverse ground layer of grasses and herbs. It occurs on sites with moderate fertility on plains or weathered undulating granitic hills in areas with moderately high rainfall (>600 mm per annum).

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

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover**  15% | **Character Species**  Eucalyptus rubida | **Common Name**  Candlebark |
|  | Eucalyptus viminalis | Manna Gum |
|  | Eucalyptus yarraensis | Yarra Gum |
|  | Eucalyptus pauciflora | Snow Gum |
|  | Eucalyptus ovata | Swamp Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 2 | 15% | MS |
| Small Shrub | 1 | 1% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Medium Herb | 8 | 20% | MH |
| Small or Prostrate Herb | 3 | 10% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 8 | 40% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 5% | MNG |
| Ground Fern | 1 | 5% | GF |
| Bryophytes/Lichens | na | 10% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia melanoxylon | **Common Name**  Blackwood |
| T | Acacia implexa | Lightwood |
| MS | Acacia pycnantha | Golden Wattle |
| MS | Acacia paradoxa | Hedge Wattle |
| MS | Cassinia arcuata | Drooping Cassinia |
| SS | Pimelea humilis | Common Rice-flower |
| PS | Bossiaea prostrata | Creeping Bossiaea |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Drosera peltata ssp. auriculata | Tall Sundew |
| MH | Acaena novae-zelandiae | Bidgee-widgee |
| MH | Chrysocephalum apiculatum s.l. | Common Everlasting |
| SH | Dichondra repens | Kidney-weed |
| SH | Opercularia varia | Variable Stinkweed |
| SH | Drosera whittakeri ssp. aberrans | Scented Sundew |
| SH | Hydrocotyle laxiflora | Stinking Pennywort |
| LTG | Deyeuxia quadriseta | Reed Bent-grass |
| MTG | Themeda triandra | Kangaroo Grass |
| MTG | Lomandra filiformis | Wattle Mat-rush |
| MTG | Poa sieberiana | Grey Tussock-grass |
| MTG | Dianella revoluta s.l. | Black-anther Flax-lily |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| GF | Pteridium esculentum | Austral Bracken |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 175\_62: Granitic Grassy Woodland - Central Victorian Uplands bioregion | |
|  | **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  MTG Briza maxima Large Quaking-grass high low  MTG Romulea rosea Onion Grass high low  MTG Briza minor Lesser Quaking-grass high low  MNG Vulpia myuros Rat's-tail Fescue 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**

Central Victorian Uplands bioregion

EVC 177: Valley Slopes Dry Forest

###### Description:

Open eucalypt forest to 20 m tall. Occurs on steep, eroding slopes in dry country. Soils are skeletal though fertile and well- drained, with occasional rock outcropping which constantly erodes and falls into the river where it undercuts steep slopes. The unconsolidated soils are partially due to low biomass in the vegetation, which does little to bind the soil. This EVC carries a mixture of wet and dry species as river fogs and river margins provide increased moisture and hence the understorey consists of a mix of species common to both drier and wetter sites that do not usually occur together.

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

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus polyanthemos  Eucalyptus melliodora | Red Box  Yellow Box |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 4 | 15% | T |
| Medium Shrub | 6 | 20% | MS |
| Small Shrub | 1 | 5% | SS |
| Large Herb | 5 | 10% | LH |
| Medium Herb | 8 | 15% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Medium to Small Tufted Graminoid | 6 | 15% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Ground Fern | 3 | 5% | GF |
| Scrambler or Climber | 2 | 5% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 177: Valley Slopes Dry Forest - Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Exocarpos cupressiformis Cherry Ballart  T Acacia implexa Lightwood  T Acacia mearnsii Black Wattle  MS Cassinia longifolia Shiny Cassinia  MS Lomatia myricoides River Lomatia  MS Indigofera australis Austral Indigo  MS Coprosma quadrifida Prickly Currant-bush  LH Senecio pinnatifolius Variable Groundsel  LH Senecio linearifolius Fireweed Groundsel  LH Senecio hispidulus Rough Fireweed  MH Stellaria pungens Prickly Starwort  MH Einadia hastata Saloop  MH Veronica calycina Hairy Speedwell  SH Dichondra repens Kidney-weed  SH Oxalis corniculata s.l. Yellow Wood-sorrel  SH Desmodium gunnii Southern Tick-trefoil  LTG Gahnia sieberiana Red-fruit Saw-sedge  MTG Lepidosperma laterale Variable Sword-sedge  MTG Poa ensiformis Sword Tussock-grass  MTG Poa sieberiana var. sieberiana Grey Tussock-grass  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Calochlaena dubia Common Ground-fern  GF Cheilanthes austrotenuifolia Green Rock-fern  GF Asplenium flabellifolium Necklace Fern  EP Amyema pendula Drooping Mistletoe  EP Amyema miquelii Box Mistletoe  SC Pandorea pandorana Wonga Vine  SC Glycine clandestina Twining Glycine  **Recruitment:**  Continuous  **Organic Litter:**  40 % 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 Verbascum virgatum Twiggy Mullein high high  MH Hypochoeris radicata Cat's Ear high low  MH Centaurium erythraea Common Centaury high low MH Anagallis arvensis Pimpernel 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**

Central Victorian Uplands bioregion

EVC 191: Riparian Scrub

###### Description:

A dense shrubland to 6 m tall growing on waterlogged substrates often with a peaty surface horizon. Emergent eucalypts may be occasionally present. The understorey typically consists of sedges tolerant of seasonal waterlogging. Occurs along creeks and minor stream tributaries of the lowland plains.

###### Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 60% | Leptospermum lanigerum | Woolly Tea-tree |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Coprosma quadrifida | **Common Name**  Prickly Currant-bush |
| MS | Acacia verticillata | Prickly Moses |
| MH | Oxalis perennans | Grassland Wood-sorrel |
| SH | Oxalis exilis | Shady Wood-sorrel |
| SH | Crassula helmsii | Swamp Crassula |
| LTG | Poa labillardierei | Common Tussock-grass |
| LTG | Carex tereticaulis | Hollow Sedge |
| LTG | Carex appressa | Tall Sedge |
| LNG | Phragmites australis | Common Reed |
| LNG | Lepidosperma longitudinale | Pithy Sword-sedge |
| MTG | Triglochin procerum s.l. | Water Ribbons |
| MNG | Empodisma minus | Spreading Rope-rush |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| SC | Gleichenia microphylla | Scrambling Coral-fern |

**Recruitment:**

Continuous

###### Organic Litter:

40 % cover

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 191: Riparian Scrub – Central Victorian Uplands bioregion | |
|  | **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Rumex conglomeratus Clustered Dock high high  LH Sonchus oleraceus Common Sow-thistle high low  LH Cirsium vulgare Spear Thistle high high  MH Trifolium dubium Suckling Clover high low  MH Trifolium subterraneum Subterranean Clover high low  MH Hypochoeris radicata Cat's Ear high low MH Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low  LNG Holcus lanatus Yorkshire Fog high high MTG Bromus hordeaceus ssp. hordeaceus Soft Brome high low  MTG Briza maxima Large Quaking-grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low  MTG Romulea rosea Onion Grass high low  MTG Bromus diandrus Great Brome high low MTG Anthoxanthum odoratum Sweet Vernal-grass high high  MNG Cynosurus echinatus Rough Dog's-tail 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**

Central Victorian Uplands bioregion

EVC 195: Seasonally Inundated Shrubby Woodland

###### Description:

Shrub-dominated eucalypt woodland to 15 m tall with an understorey visually dominated by medium shrubs and including a range of sedges and grasses and herbs including a number of annuals. Occurs on moderately fertile, poorly-drained, shallow sand or silty topsoils over heavier clay subsoils that naturally impede drainage. Often associated with recent Quaternary swamp deposits and broad, seasonal drainage lines and outwash flats between sand dunes. Soils are generally inundated or waterlogged in winter and baked hard in summer, which promotes sedges and annual species.

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

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus leucoxylon  Eucalyptus viminalis ssp. cygnetensis Eucalyptus ovata | Yellow Gum  Manna Gum Swamp Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | T |
| Medium Shrub | 7 | 30% | MS |
| Small Shrub | 3 | 10% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 3 | 10% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Medium to Small Tufted Graminoid | 5 | 15% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 10% | MNG |
| 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**  Leptospermum continentale | **Common Name**  Prickly Tea-tree |
| MS | Acacia verticillata | Prickly Moses |
| MS | Calytrix tetragona | Common Fringe-myrtle |
| SS | Hakea rugosa | Dwarf Hakea |
| SS | Hibbertia riparia | Upright Guinea-flower |
| PS | Astroloma humifusum | Cranberry Heath |
| LH | Senecio tenuiflorus | Slender Fireweed |
| LH | Senecio glomeratus | Annual Fireweed |
| MH | Acaena echinata | Sheep’s Burr |
| MH | Hypericum gramineum | Small St. John’s-wort |
| SH | Opercularia varia | Variable Stinkweed |
| MTG | Schoenus apogon | Common Bog-sedge |
| MTG | Dianella revoluta s.l. | Black-anther Flax-lily |
| MTG | Deyeuxia quadriseta | Reed Bent-grass |
| MNG | Baumea juncea | Bare Twig-sedge |
| MNG | Apodasmia brownii | Coarse Twine-rush |
| MNG | Hypolaena fastigiata | Tassel Rope-rush |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 195: Seasonally Inundated Shrubby Woodland - Central Victorian Uplands bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  30 % 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 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**

Central Victorian Uplands bioregion

EVC 198: Sedgy Riparian Woodland

###### Description:

Eucalypt forest or woodland to 15m tall with sedge-dominated understorey. Occurs on flats along low gradient creeks and drainage lines subject to seasonal inundation and waterlogging in moderately fertile habitats.

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

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 20% | Eucalyptus ovata  Eucalyptus radiata ssp. radiata Eucalyptus obliqua | Swamp Gum  Narrow-leaf Peppermint Messmate Stringybark |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 1 | 10% | T |
| Medium Shrub | 4 | 20% | MS |
| Small Shrub | 2 | 5% | SS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 7 | 10% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Tufted Graminoid | 3 | 30% | LTG |
| Large Non-tufted Graminoid | 2 | 10% | LNG |
| Medium to Small Tufted Graminoid | 7 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 15% | MNG |
| Ground Fern | 1 | 5% | GF |
| Bryophytes/Lichens | na | 10% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 198: Sedgy Riparian Woodland - Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia melanoxylon Blackwood  MS Leptospermum continentale Prickly Tea-tree  MS r Bossiaea cordigera Wiry Bossiaea  MS Epacris impressa Common Heath  MS Acacia verticillata Prickly Moses  SS Dillwynia cinerascens s.l. Grey Parrot-pea  SS Olearia erubescens Moth Daisy-bush  MH Gonocarpus tetragynus Common Raspwort  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Drosera peltata ssp. auriculata Tall Sundew  SH Hypericum japonicum Matted St John's Wort  SH Hydrocotyle sibthorpioides Shining Pennywort  LTG Gahnia sieberiana Red-fruit Saw-sedge  LTG Lepidosperma elatius Tall Sword-sedge  LTG Deyeuxia quadriseta Reed Bent-grass  LNG Tetrarrhena juncea Forest Wire-grass  MTG Lomandra filiformis Wattle Mat-rush  MTG Dianella tasmanica Tasman Flax-lily  MTG Lomandra longifolia Spiny-headed Mat-rush  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Poa tenera Slender Tussock-grass  GF Pteridium esculentum Austral Bracken  **Recruitment:**  Continuous  **Organic Litter:**  30 % 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 Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low MH Prunella vulgaris Self-heal high high  LNG Holcus lanatus Yorkshire Fog high high  MTG Anthoxanthum odoratum Sweet Vernal-grass high high  MTG Agrostis capillaris s.l. Brown-top Bent 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**

Central Victorian Uplands 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 - Central Victorian Uplands 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 September 2005  © The State of Victoria Department of Sustainability and Environment 2005  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**

Central Victorian Uplands bioregion

EVC 282: Shrubby Woodland

###### Description:

Eucalypt woodland to 15 m tall with a tall and often dense shrubby understorey. Ground cover variously dominated by sedges, grasses and herbs. Soils generally duplex with sandy loam overlying heavy clay subsoil, prone to seasonal inundation periods. Commonly found on valley floors.

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

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 20% | Eucalyptus macrorhyncha  Eucalyptus obliqua | Red Stringybark  Messmate Stringybark |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 2 | 30% | MS |
| Small Shrub | 3 | 15% | SS |
| Medium Herb | 2 | 1% | MH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 1 | 1% | MTG |
| Bryophytes/Lichens | na | 10% | BL |
| **Total understorey projective foliage cover** |  | **45%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia mearnsii | **Common Name**  Black Wattle |
| MS | Leptospermum myrsinoides | Heath Tea-tree |
| MS | Leptospermum continentale | Prickly Tea-tree |
| MS | Leucopogon ericoides | Pink Beard-heath |
| MS | Banksia marginata | Silver Banksia |
| SS | Hibbertia stricta s.l. | Upright Guinea-flower |
| SS | Platylobium obtusangulum | Common Flat-pea |
| SS | Pultenaea humilis | Dwarf Bush-pea |
| SS | Isopogon ceratophyllus | Horny Cone-bush |
| MH | Drosera peltata ssp. auriculata | Tall Sundew |
| MH | Gonocarpus tetragynus | Common Raspwort |
| LTG | Xanthorrhoea australis | Austral Grass-tree |
| MTG | Lepidosperma semiteres | Wire Rapier-sedge |

**Recruitment:**

Continuous

###### Organic Litter:

20 % cover

###### Logs:

15 m/0.1 ha.

###### Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 282: Shrubby Woodland - Central Victorian Uplands bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Central Victorian Uplands bioregion

EVC 292: Red Gum Swamp

###### Description:

Open woodland to 15 m tall. 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 700mm, and the period of inundation may range from 2 to 6 months. River Red Gum woodland with sedgy or grassy-herbaceous ground-layer, comprising various balances of true aquatics and species tolerant of intermittent to seasonal inundation.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species**  Eucalyptus spp. | **DBH(cm)**  80 cm | **#/ha**  10 / 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 |
| Large Herb | 2 | 10% | LH |
| Medium Herb | 7 | 25% | MH |
| Small or Prostrate Herb | 2 | 1% | SH |
| Large Tufted Graminoid | 2 | 15% | LTG |
| Medium to Small Tufted Graminoid | 6 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 15% | MNG |
| **Total understorey projective foliage cover** |  | **90%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  LH | **Species typical of at least part of EVC range**  Villarsia reniformis | **Common Name**  Running Marsh-flower |
| LH | Eryngium ovinum | Blue Devil |
| MH | Potamogeton tricarinatus s.l. | Floating Pondweed |
| MH | Lythrum hyssopifolia | Small Loosestrife |
| MH | Drosera peltata ssp. peltata | Pale Sundew |
| MH | Haloragis aspera | Rough Raspwort |
| SH | Lobelia pratioides | Poison Lobelia |
| SH | Solenogyne dominii | Smooth Solenogyne |
| LTG | Amphibromus nervosus | Common Swamp Wallaby-grass |
| LTG | Carex tereticaulis | Hollow Sedge |
| MTG | Juncus holoschoenus | Joint-leaf Rush |
| MTG | Lachnagrostis filiformis | Common Blown-grass |
| MTG | Schoenus tesquorum | Soft Bog-sedge |
| MTG | Isolepis fluitans | Floating Club-sedge |
| MNG | Eleocharis acuta | Common Spike-sedge |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 292: Red Gum Swamp - Central Victorian Uplands bioregion | |
|  | **Recruitment:**  Episodic/Flood – desirable period of disturbance is once every 5 years  **Organic Litter:**  10% Cover  **Logs:**  10m/0.1 ha  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low  MNG Briza minor Lesser 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**

Central Victorian Uplands bioregion

EVC 641: Riparian Woodland

###### Description:

Occurs beside permanent streams, typically on narrow alluvial deposits. Woodland to 15 m tall generally dominated by Eucalyptus camaldulensis over a tussock grass-dominated understorey. Tall shrubs may be present and amphibious herbs may occur in occasional ponds and beside creeks. While flooding may be common, sites are rarely inundated for lengthy periods.

|  |  |  |
| --- | --- | --- |
| **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 | 2 | 15% | T |
| Medium Shrub | 3 | 10% | MS |
| Small Shrub | 1 | 1% | SS |
| Large Herb | 4 | 15% | LH |
| Medium Herb | 5 | 10% | MH |
| Small or Prostrate Herb | 1 | 5% | SH |
| Large Tufted Graminoid | 3 | 10% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 4 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Scrambler or Climber | 1 | 5% | SC |
| Bryophytes/Lichens | na | 10% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia melanoxylon | **Common Name**  Blackwood |
| MS | Bursaria spinosa ssp. spinosa | Sweet Bursaria |
| MS | Viminaria juncea | Golden Spray |
| SS | Rubus parvifolius | Small-leaf Bramble |
| LH | Wahlenbergia gracilis s.s. | Sprawling Bluebell |
| LH | Senecio quadridentatus | Cottony Fireweed |
| LH | Myriophyllum crispatum | Upright Water-milfoil |
| MH | Rumex brownii | Slender Dock |
| MH | Oxalis perennans | Grassland Wood-sorrel |
| MH | Mentha australis | River Mint |
| MH | Acaena novae-zelandiae | Bidgee-widgee |
| SH | Dichondra repens | Kidneyweed |
| LTG | Poa labillardierei | Common Tussock-grass |
| LTG | Carex appressa | Tall Sedge |
| LNG | Phragmites australis | Common Reed |
| MTG | Lachnagrostis filiformis var. filiformis | Common Blown-grass |
| MTG | Triglochin procerum s.l. | Water-ribbons |
| MNG | Eleocharis acuta | Common Spike-sedge |
| SC | Calystegia sepium | Large Bindweed |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 641: Riparian Woodland - Central Victorian Uplands bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  30% cover  **Logs:**  20m / 0.1 ha  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Rosa rubiginosa Sweet Briar high high  LH Sonchus oleraceus Common Sow-thistle high low  LH Cirsium vulgare Spear Thistle high high  LH Plantago lanceolata Ribwort high low LH Helminthotheca echioides Ox-tongue high low  LH Rumex crispus Curled Dock high high  LH Aster subulatus Aster-weed high low  LH Rorippa palustris Marsh Yellow-cress high high MH Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low  MH Hypochoeris radicata Cat's Ear high low  LTG Phalaris aquatica Toowoomba Canary-grass high high  LNG Holcus lanatus Yorkshire Fog high high MTG Bromus hordeaceus ssp. hordeaceus Soft Brome high low  MTG Anthoxanthum odoratum Sweet Vernal-grass high high  MNG Paspalum distichum Water Couch high high  SC Galium aparine Cleavers 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**

Central Victorian Uplands bioregion

EVC 647: Plains Sedgy Wetland

###### Description:

Occurs in seasonally wet depressions on volcanic and sedimentary plains, typically associated with fertile, silty, peaty or heavy clay paludal soils. Primarily sedgy-herbaceous vegetation, sometimes with scattered or fringing eucalypts or tea-tree/paperbark shrubs in higher rainfall areas. A range of aquatic herbs can be present, and species-richness is mostly relatively low to moderate, but higher towards drier margins.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 5 | 40% | MH |
| Small or Prostrate Herb | 5 | 10% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 4 | 25% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  LH |  | **Species typical of at least part of EVC range**  Epilobium billardierianum | **Common Name**  Variable Willow-herb |
| MH |  | Potamogeton tricarinatus s.l. | Floating Pondweed |
| MH |  | Myriophyllum simulans | Amphibious Water-milfoil |
| MH |  | Stellaria angustifolia | Swamp Starwort |
| MH |  | Lilaeopsis polyantha | Australian Lilaeopsis |
| SH |  | Neopaxia australasica | White Purslane |
| SH |  | Lobelia pratioides | Poison Lobelia |
| SH | v | Helichrysum aff. rutidolepis (Lowland Swamps) | Pale Swamp Everlasting |
| SH |  | Eryngium vesiculosum | Prickfoot |
| LTG |  | Carex tereticaulis | Hollow Sedge |
| MTG | k | Lachnagrostis filiformis (perennial variety) | Wetland Blown-grass |
| MTG |  | Lachnagrostis filiformis | Common Blown-grass |
| MTG |  | Glyceria australis | Australian Sweet-grass |
| MNG |  | Eleocharis acuta | Common Spike-sedge |
| MNG | v | Amphibromus sinuatus | Wavy Swamp Wallaby-grass |

###### Recruitment:

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

###### Organic Litter:

10% cover

###### Logs:

5 m/0.1 ha.(where trees are overhanging the wetland)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Weediness:** |  | | | |
| **LF Code**  MTG | **Typical Weed Species**  Juncus bulbosus | **Common Name**  Bulbous Rush | **Invasive**  high | **Impact**  high |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 647: Plains Sedgy Wetland – Central Victorian Uplands bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Central Victorian Uplands bioregion

EVC 803: Plains Woodland

###### Description:

Grassy or sedgy woodland to 15 m tall with large inter-tussock spaces potentially supporting a range of annual or geophytic herbs adapted to low summer rainfall, with low overall biomass. Mostly occurs on terrain of low relief in areas receiving <600 mm rainfall per annum. Fertile, sometimes seasonally waterlogged, mostly silty, loamy or clay topsoils, with heavy subsoils, derived largely from former Quaternary swamp deposits.

###### Large trees:

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

**Tree Canopy Cover:**

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus microcarpa  Allocasuarina luehmannii Eucalyptus melliodora Eucalyptus leucoxylon | Grey Box  Buloke Yellow Box Yellow Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Medium Shrub | 2 | 5% | MS |
| Small Shrub | 2 | 5% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 20 | 20% | MH |
| Small or Prostrate Herb | 4 | 10% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Large Non-tufted Graminoid | 1 | 1% | LNG |
| Medium to Small Tufted Graminoid | 16 | 45% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 5% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

**Recruitment:**

Continuous

###### Organic Litter:

10 % cover

###### Logs:

10 m/0.1 ha.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 803: Plains Woodland – Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  MS Acacia pycnantha Golden Wattle  MS Acacia acinacea s.l. Gold-dust Wattle  SS Eutaxia microphylla var. microphylla Common Eutaxia  PS Astroloma humifusum Cranberry Heath  LH Senecio quadridentatus Cotton Fireweed  MH Acaena echinata Sheep's Burr  MH Plantago gaudichaudii Narrow Plantain  MH Maireana enchylaenoides Wingless Bluebush  MH Calocephalus citreus Lemon Beauty-heads  SH Solenogyne dominii Smooth Solenogyne  SH Oxalis perennans Grassland Wood-sorrel  SH Daucus glochidiatus Austral Carrot  SH Goodenia pinnatifida Cut-leaf Goodenia  LTG Austrostipa bigeniculata Kneed Spear-grass  MTG Austrostipa scabra Rough Spear-grass  MTG Austrodanthonia setacea Bristly Wallaby-grass  MTG Dianella revoluta s.s. Black-anther Flax-lily  MTG Austrodanthonia caespitosa Common Wallaby-grass  MNG Wurmbea dioica Common Early Nancy  TTG Centrolepis strigosa ssp. strigosa Hairy Centrolepis  TTG Centrolepis aristata Pointed Centrolepis  EP Amyema miquelii Box Mistletoe  SC Thysanotus patersonii Twining Fringe-lily  SC Convolvulus erubescens spp. agg. Pink Bindweed  **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 Trifolium angustifolium var. angustifolium Narrow-leaf Clover high low MH Hypochoeris glabra Smooth Cat's-ear high low  MH Arctotheca calendula Cape Weed high low  MH Petrorhagia velutina Velvety Pink high low  MH Trifolium dubium Suckling Clover high low  MH Anagallis arvensis Pimpernel high low  SH Trifolium glomeratum Cluster Clover high low  LNG Avena fatua Wild Oat high low  MTG Romulea rosea Onion Grass high low  MTG Briza minor Lesser Quaking-grass high low  MTG Briza maxima Large Quaking-grass high low  MTG Lolium rigidum Wimmera Rye-grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low  MNG Vulpia 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 September 2005  © The State of Victoria Department of Sustainability and Environment 2005  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**

Central Victorian Uplands bioregion

EVC 851: Stream-Bank Shrubland

###### Description:

Rivers and major streams where the watercourse consists of either rocky banks, a flat rocky stream bed or broad gravel banks which are often dry but are also regularly flooded by fast flowing waters. Annual rainfall is usually below 700 mm. There is a sparse overstorey of trees to 20 m tall, a dominant tall shrub layer and a ground layer of sedges and herbs.

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

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 10% | Eucalyptus globulus ssp. pseudoglobulus | Gippsland Blue-gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 1 | 10% | T |
| Medium Shrub | 10 | 40% | MS |
| Large Herb | 4 | 5% | LH |
| Medium Herb | 9 | 20% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Tufted Graminoid | 3 | 15% | LTG |
| Medium to Small Tufted Graminoid | 3 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 10% | MNG |
| Ground Fern | 1 | 1% | GF |
| Scrambler or Climber | 2 | 5% | SC |
| Bryophytes/Lichens | na | 10% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 851: Stream-Bank Shrubland - Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Pomaderris aspera Hazel Pomaderris  MS Cassinia aculeata Common Cassinia  MS Dodonaea viscosa ssp. cuneata Wedge-leaf Hop-bush  MS Acacia verticillata Prickly Moses  LH Chrysocephalum semipapposum Clustered Everlasting  LH Myriophyllum crispatum Upright Water-milfoil  LH Epilobium billardierianum ssp. cinereum Grey Willow-herb  LH Wahlenbergia stricta Tall Bluebell  MH Geranium potentilloides Cinquefoil Cranesbill  MH Acaena novae-zelandiae Bidgee-widgee  SH Dichondra repens Kidney-weed  SH Oxalis exilis Shady Wood-sorrel  SH Goodenia lanata Trailing Goodenia  SH Leptinella filicula Mountain Cotula  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Carex polyantha River Sedge  LTG Juncus gregiflorus Green Rush  LTG Carex appressa Tall Sedge  MTG Poa labillardierei Common Tussock-grass  MTG Luzula meridionalis var. flaccida Common Woodrush  MTG Lepidosperma laterale Variable Sword-sedge  MTG Isolepis inundata Swamp Club-sedge  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Echinopogon ovatus Common Hedgehog-grass  GF Cheilanthes austrotenuifolia Green Rock-fern  GF Adiantum aethiopicum Common Maidenhair  SC Glycine clandestina Twining Glycine  SC Clematis microphylla Small-leaved Clematis  SC Clematis aristata Mountain Clematis  **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  10 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Lycium ferocissimum African Box-thorn low high MS Ulex europaeus Gorse low high  MH Hypochoeris radicata Cat's Ear high low MH Centaurium erythraea Common Centaury high low MH Cerastium glomeratum s.l. Common Mouse-ear Chickweed high low MH Anagallis arvensis Pimpernel high low  MTG Ehrharta longiflora Annual Veldt-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**

Central Victorian Uplands 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. Sedges may be locally common. 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. | **DBH(cm)**  70 cm | **#/ha**  15 / ha |

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus leucoxylon  Eucalyptus ovata | Yellow Gum  Swamp Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 5 | 20% | MS |
| Small Shrub | 6 | 15% | SS |
| Prostrate Shrub | 3 | 5% | PS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 19 | 20% | MH |
| Small or Prostrate Herb | 4 | 5% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Medium to Small Tufted Graminoid | 13 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 4 | 5% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 882: Shallow Sands Woodland – Central Victorian Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Allocasuarina verticillata Drooping Sheoke  MS Calytrix tetragona Common Fringe-myrtle  MS Leptospermum myrsinoides Heath Tea-tree  MS Banksia marginata Silver Banksia  MS Acacia verticillata Prickly Moses  SS Hibbertia stricta s.l. Upright Guinea-flower  SS Astroloma conostephioides Flame Heath  SS Isopogon ceratophyllus Horny Cone-bush  SS Leucopogon virgatus Common Beard-heath  PS Astroloma humifusum Cranberry Heath  PS Acrotriche serrulata Honey-pots  PS Bossiaea prostrata Creeping Bossiaea  LH Senecio tenuiflorus Slender Fireweed  LH Senecio quadridentatus Cotton Fireweed  MH Drosera peltata ssp. peltata Pale Sundew  MH Acaena echinata Sheep's Burr  SH Hydrocotyle laxiflora Stinking Pennywort  SH Siloxerus multiflorus Small Wrinklewort  SH Phyllangium divergens Wiry Mitrewort  SH Kennedia prostrata Running Postman  LTG Austrostipa mollis Supple Spear-grass  LTG r Xanthorrhoea caespitosa Tufted Grass-tree  MTG Schoenus apogon Common Bog-sedge  MTG Austrodanthonia geniculata Kneed Wallaby-grass  MTG Lepidosperma carphoides Black Rapier-sedge  MTG Neurachne alopecuroidea Fox-tail Mulga-grass  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Microtis unifolia Common Onion-orchid  TTG Centrolepis aristata Pointed Centrolepis  TTG Centrolepis strigosa ssp. strigosa Hairy Centrolepis  TTG Aphelia pumilio Dwarf Aphelia  TTG Schoenus breviculmis Matted Bog-sedge  SC Thysanotus patersonii Twining Fringe-lily  **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 Trifolium campestre var. campestre Hop Clover high low  MH Centaurium erythraea Common Centaury high low  MH Anagallis arvensis Pimpernel high low  MH Cicendia filiformis Slender Cicendia 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  MNG Aira elegantissima Delicate Hair-grass high low  MNG Aira caryophyllea Silvery Hair-grass high low  MNG Juncus capitatus Capitate Rush 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**

Central Victorian Uplands bioregion

EVC 894: Scoria Cone Woodland

###### Description:

Eucalypt woodland to 15 m tall or non-eucalypt woodland to 10 m tall over a grassy to bracken-dominated understorey with a range of herbs. Occurs on the slopes of freely-draining scoria cones and spatter areas of more coarse boulder-forming flow sources. Soils are fertile but often skeletal.

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

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus viminalis  Allocasuarina verticillata | Manna Gum  Drooping Sheoak |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia melanoxylon | **Common Name**  Blackwood |
| MS | Bursaria spinosa | Sweet Bursaria |
| LH | Senecio pinnatifolius | Variable Groundsel |
| LH | Rumex brownii | Wiry Dock |
| LH | Senecio quadridentatus | Cotton Fireweed |
| MH | Acaena novae-zelandiae | Bidgee-widgee |
| MH | Geranium potentilloides | Cinquefoil Cranesbill |
| MH | Acaena echinata | Sheep’s Burr |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| SH | Dichondra repens | Kidney-weed |
| SH | Oxalis exilis | Shady Wood-sorrel |
| LTG | Poa labillardierei | Common Tussock-grass |
| MTG | Lomandra filiformis | Wattle Mat-rush |
| MTG | Dianella revoluta s.l. | Black-anther Flax-lily |
| MTG | Carex breviculmis | Short-stem Sedge |
| MTG | Austrodanthonia pilosa | Velvet Wallaby-grass |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| GF | Pteridium esculentum | Austral Bracken |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 894: Scoria Cone Woodland – Central Victorian Uplands bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  10 m/0.1 ha  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Lycium ferocissimum African Box-thorn high high MH Hypochoeris radicata Cat's Ear high low MTG Briza maxima Large Quaking-grass high low  MTG Romulea rosea Onion Grass high low  MTG Holcus lanatus Yorkshire Fog 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

Central Victorian Uplands bioregion

EVC 895: Escarpment Shrubland

Description:

Occurs on rocky escarpments in steep valleys or gorges, associated with limestone or basalt. Sites have moderate to high fertility, are well-drained but subject to regular summer drought due to shallow soils. Eucalypt woodland to 15 m tall or non- eucalypt shrubland to 8m tall, with occasional eucalypts; lichen-covered rock outcrops are common.

+ eucalypt woodland only components (ignore when assessing shrubland areas and standardise site condition score as required)

Large trees+:

|  |  |  |
| --- | --- | --- |
| Species | DBH(cm) | #/ha |
| Eucalyptus spp. | 70 cm | 15 / ha |

Canopy Cover:

|  |  |  |
| --- | --- | --- |
| %cover | Character Species | Common Name |
| 15% | Acacia implexa  Allocasuarina verticillata Acacia mearnsii  Bursaria spinosa | Lightwood  Drooping Sheoak Black Wattle Sweet Bursaria |

|  |  |  |  |
| --- | --- | --- | --- |
| 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 | 2 | 5% | SS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 4 | 10% | MH |
| Small or Prostrate Herb | 5 | 5% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 9 | 25% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 5% | MNG |
| Ground Fern | 1 | 5% | GF |
| Scrambler or Climber | 1 | 5% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

|  |  |  |  |
| --- | --- | --- | --- |
| LF Code |  | Species typical of at least part of EVC range | Common Name |
| MS | r | Rhagodia parabolica | Fragrant Saltbush |
| MS |  | Hymenanthera dentata s.l. | Tree Violet |
| SS |  | Enchylaena tomentosa var. tomentosa | Ruby Saltbush |
| LH |  | Wahlenbergia communis s.l. | Tufted Bluebell |
| MH |  | Oxalis perennans | Grassland Wood-sorrel |
| MH |  | Maireana enchylaenoides | Wingless Bluebush |
| MH |  | Einadia nutans ssp. nutans | Nodding Saltbush |
| SH |  | Chamaesyce drummondii | Flat Spurge |
| SH |  | Dichondra repens | Kidney-weed |
| LTG |  | Austrostipa bigeniculata | Kneed Spear-grass |
| MTG |  | Austrodanthonia racemosa var. racemosa | Stiped Wallaby-grass |
| MTG |  | Austrodanthonia setacea | Bristly Wallaby-grass |
| MNG |  | Panicum effusum | Hairy Panic |
| GF |  | Cheilanthes distans | Bristly Cloak-fern |
| SC |  | Clematis microphylla | Small-leaved Clematis |
| SC |  | Convolvulus erubescens spp. agg. | Pink Bindweed |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 895: Escarpment Shrubland - Central Victorian Uplands bioregion | |
|  | Recruitment:  Continuous  Organic Litter:  20 % cover  Logs:  15 m/0.1 ha+.  5 m/0.1 ha. (note: large log class does not apply)  Weediness:  LF Code Typical Weed Species Common Name Invasive Impact  T Schinus molle Pepper Tree high high  MS Lycium ferocissimum African Box-thorn high high  MS Genista monspessulana Montpellier Broom high high  SS Marrubium vulgare Horehound high high  LH Sonchus oleraceus Common Sow-thistle high low LH Helminthotheca echioides Ox-tongue high high LH Lactuca serriola Prickly Lettuce high low  LH Sisymbrium officinale Hedge Mustard high high  LH Sonchus asper s.l. Rough Sow-thistle high low LH Verbascum thapsus ssp. thapsus Great Mullein high high LH Echium plantagineum Paterson's Curse high high  LH Centaurium tenuiflorum Slender Centaury high low  LH Foeniculum vulgare Fennel high high  MH Hypochoeris radicata Cat's Ear high low MH Trifolium arvense var. arvense Hare's-foot Clover high low MH Trifolium subterraneum Subterranean Clover high low MH Trifolium campestre var. campestre Hop Clover high low MH Trifolium angustifolium var. angustifolium Narrow-leaf Clover high low MH Lotus suaveolens Hairy Bird's-foot Trefoil high low MH Cerastium glomeratum s.l. Common Mouse-ear Chickweed high low SH Medicago polymorpha Burr Medic high low  SH Trifolium glomeratum Cluster Clover high low  SH Modiola caroliniana Red-flower Mallow high low  SH Aptenia cordifolia Heart-leaf Ice-plant high high  LTG Phalaris aquatica Toowoomba Canary-grass high high  LNG Holcus lanatus Yorkshire Fog high high  LNG Avena fatua Wild Oat high low  MTG Nassella trichotoma Serrated Tussock high high  MTG Ehrharta longiflora Annual Veldt-grass high low  MTG Briza maxima Large Quaking-grass high low MTG Bromus hordeaceus ssp. hordeaceus Soft Brome high low  MTG Sporobolus africanus Rat-tail Grass high high  MTG Vulpia bromoides Squirrel-tail Fescue high low  MTG Romulea rosea Onion Grass high low MTG Pentaschistis airoides ssp. airoides False Hair-grass high low  MTG Lolium perenne Perennial Rye-grass high high  MTG Dactylis glomerata Cocksfoot high high  MTG Vulpia myuros Rat's-tail Fescue high low  MTG Bromus rubens Red Brome high low  MTG Avena barbata Bearded Oat high low  MTG Aira caryophyllea Silvery Hair-grass high low  SC Vicia sativa ssp. sativa Common Vetch 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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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Central Victorian Uplands Bioregion

## EVC 895\_61: Treed Escarpment Shrubland

##### Description:

Occurs on rocky escarpments in steep valleys or gorges, associated with limestone or basalt. Sites have moderate to high fertility, are well-drained but subject to regular summer drought due to shallow soils. Eucalypt woodland to 15m tall or non-eucalypt shrubland to 8m tall, with occasional eucalypts; lichen-covered rock outcrops are common.

##### Large Trees:

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

*Eucalyptus spp.*

70 cm

15 / ha



##### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | *Acacia implexa Acacia mearnsii*  *Allocasuarina verticillata Bursaria spinosa* | Lightwood Black Wattle  Drooping Sheoak Sweet Bursaria |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Lifeform** | **#Spp** | **%Cover** | **LF Code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 3 | 10% | T |
| Medium Shrub | 3 | 10% | MS |
| Small Shrub | 2 | 5% | SS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 4 | 10% | MH |
| Small or Prostrate Herb | 5 | 5% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Large Non-Tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 9 | 25% | MTG |
| Medium to Tiny Non-Tufted Graminoid | 3 | 5% | MNG |
| Ground Fern | 1 | 5% | GF |
| Scrambler or Climber | 1 | 5% | SC |
| Bryophytes/Lichens |  | 10% | BL |
| Soil Crust |  | 10% | S/C |

Ecological Vegetation Class Bioregion Benchmark

|  |  |  |
| --- | --- | --- |
| EVC 895\_61: Treed Escarpment Shrubland | | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T *Various spp.*  MS *Melicytus dentatus s.l.* Tree Violet  MS r *Rhagodia parabolica* Fragrant Saltbush  SS *Enchylaena tomentosa var. tomentosa* Ruby Saltbush  LH *Wahlenbergia communis s.l.* Tufted Bluebell  MH *Einadia nutans subsp. nutans* Nodding Saltbush  MH *Maireana enchylaenoides* Wingless Bluebush  MH *Oxalis perennans* Grassland Wood-sorrel  SH *Chamaesyce drummondii* Flat Spurge  SH *Dichondra repens* Kidney-weed  LTG *Austrostipa bigeniculata* Kneed Spear-grass LNG *Various spp.*  MTG *Austrodanthonia racemosa var. racemosa* Stiped Wallaby-grass  MTG *Austrodanthonia setacea* Bristly Wallaby-grass  MNG *Panicum effusum* Hairy Panic  GF *Cheilanthes distans* Bristly Cloak-fern  SC *Clematis microphylla* Small-leaved Clematis  SC *Convolvulus erubescens spp. agg.* Pink Bindweed  **Recruitment:**  Continuous.  **Organic Litter:**  20 % cover  **Logs:**  15 m/0.1ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS *Genista monspessulana* Montpellier Broom high high MS *Lycium ferocissimum* African Box-thorn high high  MTG *Nassella trichotoma* Serrated Tussock high high  LNG *Holcus lanatus* Yorkshire Fog high high  LTG *Phalaris aquatica* Toowoomba Canary-grass high high  SH *Aptenia cordifolia* Heart-leaf Ice-plant high high LH *Verbascum thapsus subsp. thapsus* Great Mullein high high LH *Echium plantagineum* Paterson's Curse high high LH *Foeniculum vulgare* Fennel high high  SS *Marrubium vulgare* Horehound high high  MTG *Dactylis glomerata* Cocksfoot high high  LH *Sisymbrium officinale* Hedge Mustard high high  T *Schinus molle* Pepper Tree high high LH *Helminthotheca echioides* Ox-tongue high high MTG *Sporobolus africanus* Rat-tail Grass high high  MTG *Lolium perenne* Perennial Rye-grass high high  MTG *Vulpia bromoides* Squirrel-tail Fescue high low  MTG *Briza maxima* Large Quaking-grass high low MTG *Pentaschistis airoides subsp. airoides* False Hair-grass high low MTG *Vulpia myuros* Rat's-tail Fescue high low  MTG *Bromus rubens* Red Brome high low  MTG *Avena barbata* Bearded Oat high low  MTG *Aira caryophyllea* Silvery Hair-grass high low  LH *Lactuca serriola* Prickly Lettuce high low  LH *Sonchus asper s.l.* Rough Sow-thistle high low MH *Trifolium arvense var. arvense* Hare's-foot Clover high low MH *Trifolium campestre var. campestre* Hop Clover high low MH *Lotus subbiflorus* Hairy Bird's-foot Trefoil high low | |
|  |  |  |
|  | Ecological Vegetation Class Bioregion Benchmark | |



|  |  |
| --- | --- |
| EVC 895\_61: Treed Escarpment Shrubland | |
|  | **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  SH *Medicago polymorpha* Burr Medic high low SH *Modiola caroliniana* Red-flower Mallow high low  LNG *Avena fatua* Wild Oat high low  MTG *Ehrharta longiflora* Annual Veldt-grass high low MH *Cerastium glomeratum s.l.* Common Mouse-ear high low  Chickweed  LH *Sonchus oleraceus* Common Sow-thistle high low LH *Centaurium tenuiflorum* Slender Centaury high low MH *Hypochoeris radicata* Cat's Ear high low MH *Trifolium subterraneum* Subterranean Clover high low SC *Vicia sativa subsp. sativa* Common Vetch high low SH *Trifolium glomeratum* Cluster Clover high low MH *Trifolium angustifolium var.* Narrow-leaf Clover high low  *angustifolium*  MTG *Bromus hordeaceus subsp. hordeaceus* Soft Brome high low MTG *Romulea rosea* Onion Grass 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

Central Victorian Uplands bioregion

EVC 937: Swampy Woodland

Description:

Open eucalypt woodland to 15 m tall with ground-layer dominated by tussock grasses and/or sedges and often rich in herbs. Occurs on poorly drained, seasonally waterlogged heavy soils, primarily on swamp deposits but extending to suitable substrates within some landscapes of sedimentary origin.

|  |  |  |
| --- | --- | --- |
| Large trees: |  | |
| Species  Eucalyptus spp. | DBH(cm)  60 cm | #/ha  15 / ha |

Tree Canopy Cover:

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

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 937: Swampy Woodland - Central Victorian Uplands bioregion | |
|  | LF Code Species typical of at least part of EVC range Common Name  T Melaleuca ericifolia Swamp Paperbark  MS Leptospermum continentale Prickly Tea-tree  MS Ozothamnus ferrugineus Tree Everlasting  MS Epacris impressa Common Heath  SS Hibbertia riparia Erect Guinea-flower  PS Hibbertia procumbens Spreading Guinea-flower  LH Pterostylis longifolia s.l. Tall Greenhood  LH Stackhousia viminea Slender Stackhousia  MH Gonocarpus tetragynus Common Raspwort  MH Mazus pumilio Swamp Mazus  MH Gratiola peruviana Austral Brooklime  MH Centella cordifolia Centella  SH Opercularia varia Variable Stinkweed  LTG Gahnia sieberiana Red-fruit Saw-sedge  LTG Austrostipa pubinodis Tall Spear-grass  LNG Gahnia radula Thatch Saw-sedge  LNG Lepidosperma longitudinale Pithy Sword-sedge  MTG Schoenus apogon Common Bog-sedge  MTG Lepidosperma laterale Variable Sword-sedge  MTG Lomandra filiformis Wattle Mat-rush  MNG Poa tenera Slender Tussock-grass  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Lepyrodia muelleri Common Scale-rush  MNG Empodisma minus Spreading Rope-rush  GF Pteridium esculentum Austral Bracken  GF Lindsaea linearis Screw Fern  SC Cassytha glabella Slender Dodder-laurel  SC Thysanotus patersonii Twining Fringe-lily  Recruitment:  Continuous  Organic Litter:  20 % cover  Logs:  15 m/0.1 ha.  Weediness:  LF Code Typical Weed Species Common Name Invasive Impact  MS Rubus sp. aff. armeniacus Blackberry high high  MH Hypochoeris radicata Cat's Ear 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 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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