

### EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps bioregion

EVC 18: Riparian Forest

##### Description:

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

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

##### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Eucalyptus chapmaniana  Eucalyptus cypellocarpa Eucalyptus dives  Eucalyptus rubida | Bogong Gum  Mountain Grey-gum Broad-leaved Peppermint Candlebark |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 3 | 20% | T |
| Medium Shrub | 7 | 30% | MS |
| Small Shrub | 2 | 5% | SS |
| Prostrate Shrub | 2 | 1% | PS |
| Large Herb | 5 | 10% | LH |
| Medium Herb | 16 | 20% | MH |
| Small or Prostrate Herb | 4 | 10% | SH |
| Medium to Small Tufted Graminoid | 8 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 4 | 5% | MNG |
| Ground Fern | 3 | 10% | GF |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

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| EVC 18: Riparian Forest - Victorian Alps bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  MS Daviesia ulicifolia Gorse Bitter-pea  MS Epacris impressa Common Heath  MS Cassinia aculeata Common Cassinia  MS Indigofera australis Austral Indigo  SS Tetratheca ciliata Pink-bells  SS Olearia myrsinoides Silky Daisy-bush  PS Acrotriche serrulata Honey-pots  PS Acrotriche prostrata Trailing Ground-berry  LH Senecio tenuiflorus Slender Fireweed  LH Senecio linearifolius Fireweed Groundsel  LH Epilobium billardierianum ssp. cinereum Grey Willow-herb  MH Euchiton collinus s.s. Creeping Cudweed  MH Helichrysum scorpioides Button Everlasting  MH Lagenophora stipitata Common Bottle-daisy  MH Stellaria pungens Prickly Starwort  SH Galium propinquum Maori Bedstraw  SH Galium ciliare Hairy Bedstraw  SH Hydrocotyle laxiflora Stinking Pennywort  SH Cymbonotus preissianus Austral Bear's-ear  MTG Poa sieberiana var. sieberiana Grey Tussock-grass  MTG Stylidium graminifolium s.l. Grass Trigger-plant  MTG Luzula meridionalis var. flaccida Common Woodrush  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Echinopogon ovatus Common Hedgehog-grass  MNG Deyeuxia rodwayi Tasman Bent-grass  GF Pteridium esculentum Austral Bracken  GF Polystichum proliferum Mother Shield-fern  GF Asplenium flabellifolium Necklace Fern  SC Glycine clandestina Twining Glycine  **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 oleraceus Common Sow-thistle high low  LH Rumex obtusifolius ssp. obtusifolius Broad-leaf Dock high low  MH Prunella vulgaris Self-heal high low  MH Mimulus moschatus Musk Monkey-flower high low MH Centaurium erythraea Common Centaury high low  MH Cerastium glomeratum s.l. Common Mouse-ear Chickweed high low  SH Trifolium repens var. repens White Clover high low  LNG Holcus lanatus Yorkshire Fog high high  MNG Aira caryophyllea Silvery 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**

Victorian Alps 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**  40% | **Character Species**  Acacia melanoxylon |  | **Common Name**  Blackwood | |
|  | Leptospermum grandifolium |  | Mountain Tea-tree | |
| **Understorey:** | |  |  |  |
| **Life form** | | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | | 9 | 20% | 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** | |  | **65%** |  |
| **LF Code** | **Species typical of at least part of EVC range** | | **Common Name** | |
| MS  MS MS  MS  MH LTG MTG MTG MTG MNG GF GF GF GF TRF TRF SC | Coprosma quadrifida  Hedycarya angustifolia Kunzea ericoides  Micrantheum hexandrum  Euchiton collinus s.l.  Carex appressa Lepidosperma laterale  Poa ensiformis  Dianella tasmanica  Microlaena stipoides var. stipoides Calochlaena dubia  Pteridium esculentum  Polystichum proliferum Blechnum minus Todea barbara  Dicksonia antarctica Pandorea pandorana | | Prickly Currant-bush  Austral Mulberry Burgan  Box Micrantheum  Clustered/Creeping Cudweed Tall Sedge  Variable Sword-sedge Sword Tussock-grass  Tasman Flax-lily Weeping Grass  Common Ground-fern Austral Bracken  Mother Shield-fern Soft Water-fern Austral King-fern  Soft Tree-fern Wonga Vine | |

**Recruitment:**

Continuous

##### Organic Litter:

40 % cover

##### Logs:

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

##### Weediness:

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code Typical Weed Species** | **Common Name** | **Invasive** | **Impact** |
| MS Rubus fruticosus spp. agg. | Blackberry | high | high |

Ecological Vegetation Class bioregion benchmark

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| EVC 19: Riparian Shrubland - Victorian Alps bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Victorian Alps 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, poor in form to 20 m tall 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.

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

##### Tree Canopy Cover:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 8 | 30% | MS |
| Small Shrub | 2 | 5% | SS |
| Prostrate Shrub | 3 | 15% | PS |
| Large Herb | 2 | 1% | LH |
| Medium Herb | 4 | 5% | MH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 6 | 20% | MTG |
| Ground Fern | 1 | 1% | 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 dealbata | **Common Name**  Silver Wattle |
| MS | Daviesia ulicifolia | Gorse Bitter-pea |
| MS | Persoonia confertiflora | Cluster-flower Geebung |
| MS | Monotoca scoparia | Prickly Broom-heath |
| MS | Pultenaea juniperina s.l. | Prickly Bush-pea |
| SS | Hibbertia obtusifolia | Grey Guinea-flower |
| SS | Dillwynia phylicoides | Small-leaf Parrot-pea |
| PS | Platylobium formosum | Handsome Flat-pea |
| PS | Persoonia chamaepeuce | Dwarf Geebung |
| LH | Senecio tenuiflorus | Slender Fireweed |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Stellaria pungens | Prickly Starwort |
| MH | Poranthera microphylla | Small Poranthera |
| MTG | Joycea pallida | Silvertop Wallaby-grass |
| MTG | Stylidium graminifolium s.l. | Grass Trigger-plant |
| MTG | Poa sieberiana | Grey Tussock-grass |
| MTG | Dianella tasmanica | Tasman Flax-lily |
| GF | Pteridium esculentum | Austral Bracken |
| SC | Clematis aristata | Mountain Clematis |

Ecological Vegetation Class bioregion benchmark

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| EVC 20: Heathy Dry Forest - Victorian Alps bioregion | |
|  | **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 20 years.  **Organic Litter:**  20 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low  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**

Victorian Alps 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**  Eucalyptus spp. | **DBH(cm)**  60 cm | **#/ha**  20 / ha |

##### Tree Canopy Cover:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Mallee Tree | 1 | 5% | MT |
| Medium Shrub | 8 | 40% | MS |
| Small Shrub | 2 | 5% | SS |
| Prostrate Shrub | 2 | 5% | PS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 5 | 10% | MH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Medium to Small Tufted Graminoid | 4 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **85%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia dealbata | **Common Name**  Silver Wattle |
| MS | Monotoca scoparia | Prickly Broom-heath |
| MS | Coprosma hirtella | Rough Coprosma |
| MS | Daviesia latifolia | Hop Bitter-pea |
| MS | Cassinia longifolia | Shiny Cassinia |
| SS | Hibbertia obtusifolia | Grey Guinea-flower |
| SS | Olearia erubescens | Moth Daisy-bush |
| PS | Platylobium formosum | Handsome Flat-pea |
| PS | Persoonia chamaepeuce | Dwarf Geebung |
| LH | Derwentia perfoliata | Digger's Speedwell |
| LH | Wahlenbergia gracilis s.l. | Sprawling Bluebell |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Stellaria pungens | Prickly Starwort |
| MH | Poranthera microphylla | Small Poranthera |
| MH | Helichrysum scorpioides | Button Everlasting |
| LTG | Lomandra longifolia ssp. exilis | Cluster-headed Mat-rush |
| MTG | Joycea pallida | Silvertop Wallaby-grass |
| MTG | Stylidium graminifolium s.l. | Grass Trigger-plant |
| MTG | Dianella tasmanica | Tasman Flax-lily |
| MTG | Poa sieberiana var. sieberiana | Grey Tussock-grass |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 21: Shrubby Dry Forest - Victorian Alps bioregion | |
|  | **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 20 years.  **Organic Litter:**  20 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low LNG 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**

Victorian Alps bioregion

EVC 22: Grassy Dry Forest

##### Description:

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

##### Large trees:

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

Eucalyptus spp. 60 cm 20 / ha

##### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus dives  Eucalyptus macrorhyncha Eucalyptus goniocalyx s.l. | Broad-leaved Peppermint  Red Stringybark Bundy |

|  |  |  |  |
| --- | --- | --- | --- |
| **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 | 3 | 5% | SS |
| Prostrate Shrub | 2 | 1% | PS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 11 | 20% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 7 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Ground Fern | 1 | 5% | 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 - Victorian Alps 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 Cassinia longifolia Shiny Cassinia  SS Pimelea linifolia Slender Rice-flower  SS Hibbertia obtusifolia Grey Guinea-flower  SS Hovea heterophylla Common Hovea  PS Acrotriche serrulata Honey-pots  PS Platylobium formosum Handsome Flat-pea  LH Wahlenbergia stricta Tall Bluebell  LH Senecio tenuiflorus Slender Fireweed  LH Senecio quadridentatus Cotton Fireweed  MH Epilobium billardierianum Variable Willow-herb  MH Hypericum gramineum Small St John's Wort  MH Gonocarpus tetragynus Common Raspwort  SH Poranthera microphylla Small Poranthera  SH Hydrocotyle laxiflora Stinking Pennywort  SH Dichondra repens Kidney-weed  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 Dianella revoluta s.l. Black-anther Flax-lily  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Echinopogon ovatus Common Hedgehog-grass  GF Cheilanthes austrotenuifolia Green Rock-fern  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  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 minor Lesser Quaking-grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low  MNG Holcus lanatus Yorkshire Fog high high  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**

Victorian Alps 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 25 m 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**  Eucalyptus spp. | **DBH(cm)**  70 cm | **#/ha**  20 / ha |

##### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Eucalyptus radiata s.l.  Eucalyptus dives | Narrow-leaf Peppermint  Broad-leaved Peppermint |

|  |  |  |  |
| --- | --- | --- | --- |
| **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 | 3 | 10% | SS |
| Prostrate Shrub | 2 | 5% | PS |
| Large Herb | 4 | 5% | LH |
| Medium Herb | 12 | 20% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Medium to Small Tufted Graminoid | 6 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 5% | MNG |
| Ground Fern | 2 | 15% | GF |
| Scrambler or Climber | 1 | 5% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

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| --- | --- |
| EVC 23: Herb-rich Foothill Forest - Victorian Alps bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia melanoxylon Blackwood  T Acacia dealbata Silver Wattle  MS Cassinia aculeata Common Cassinia  MS Coprosma hirtella Rough Coprosma  MS Daviesia leptophylla Narrow-leaf Bitter-pea  MS Daviesia ulicifolia Gorse Bitter-pea  SS Tetratheca ciliata Pink-bells  SS Hibbertia obtusifolia Grey Guinea-flower  SS Olearia erubescens Moth Daisy-bush  SS Ozothamnus thyrsoideus Sticky Everlasting  PS Acrotriche serrulata Honey-pots  PS Acrotriche prostrata Trailing Ground-berry  PS Platylobium formosum Handsome Flat-pea  LH Wahlenbergia stricta Tall Bluebell  LH Senecio tenuiflorus Slender Fireweed  LH Chrysocephalum semipapposum Clustered Everlasting  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Gonocarpus tetragynus Common Raspwort  MH Hypericum gramineum Small St John's Wort  MH Viola betonicifolia ssp. betonicifolia Showy Violet  SH Hydrocotyle laxiflora Stinking Pennywort  SH Chiloglottis gunnii s.l. Common Bird-orchid  LTG Lomandra longifolia Spiny-headed Mat-rush  MTG Dianella tasmanica Tasman Flax-lily  MTG Stylidium graminifolium s.l. Grass Trigger-plant  MTG Poa sieberiana var. sieberiana Grey Tussock-grass  MTG Joycea pallida Silvertop Wallaby-grass  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Deyeuxia rodwayi Tasman Bent-grass  GF Pteridium esculentum Austral Bracken  GF Polystichum proliferum Mother Shield-fern  SC Clematis aristata Mountain Clematis  **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Solanum nigrum sensu Willis (1972) Black Nightshade low low MH Hypochoeris radicata Cat's Ear 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**

Victorian Alps bioregion

EVC 27: Blackthorn Scrub

##### Description:

Occurs on northerly and westerly slopes of mountains and valleys. Trees are not a prominent feature, often present only as emergents or forming a very open woodland. The small tree or large shrub layer to 10 m tall is a dominant feature, often forming even-aged stands of uniform height. The ground layer is generally sparse and species-poor due to low site quality and the density of the overstorey. Vines can be conspicuous in the understorey.

##### Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Acacia silvestris  Pomaderris aspera Exocarpos cupressiformis | Red Wattle  Hazel Pomaderris Cherry Ballart |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Medium Shrub | 5 | 20% | MS |
| Medium Herb | 2 | 1% | MH |
| Medium to Small Tufted Graminoid | 3 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Ground Fern | 2 | 5% | GF |
| Epiphyte | 2 | 1% | EP |
| Scrambler or Climber | 2 | 1% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **45%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Philotheca trachyphylla | **Common Name**  Rock Wax-flower |
| MS | Cassinia trinerva | Three-nerved Cassinia |
| MS | Kunzea ericoides | Burgan |
| MS | Olearia lirata | Snowy Daisy-bush |
| MH | Stellaria flaccida | Forest Starwort |
| MTG | Dianella tasmanica | Tasman Flax-lily |
| MTG | Notodanthonia longifolia | Long-leaf Wallaby-grass |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| GF | Polystichum proliferum | Mother Shield-fern |
| GF | Asplenium flabellifolium | Necklace Fern |
| SC | Pandorea pandorana | Wonga Vine |

**Recruitment:**

Continuous

##### Organic Litter:

40 % cover

##### Logs:

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

##### Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 27: Blackthorn Scrub - Victorian Alps bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Victorian Alps 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 4 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.

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** Medium Shrub | **#Spp**  7 | **%Cover**  30% | **LF code**  MS |
| Small Shrub | 2 | 5% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 2 | 1% | MH |
| Medium to Small Tufted Graminoid | 4 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Ground Fern | 1 | 1% | GF |
| Scrambler or climber | 1 | 1% | SC |
| Bryophytes/Lichens | na | 20% | BL |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **65%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Cassinia longifolia | **Common Name**  Shiny Cassinia |
| MS | Leucopogon fletcheri ssp. brevisepalus | Twin-flower Beard-heath |
| MS | Platysace lanceolata | Shrubby Platysace |
| MS | Ozothamnus obcordatus | Grey Everlasting |
| SS | Hibbertia obtusifolia | Grey Guinea-flower |
| SS | Phyllanthus hirtellus | Thyme Spurge |
| SS | Hibbertia riparia | Erect Guinea-flower |
| LH | Stypandra glauca | Nodding Blue-lily |
| LH | Wahlenbergia gracilis s.l. | Sprawling Bluebell |
| LH | Senecio tenuiflorus | Slender Fireweed |
| MH | Pomax umbellata | Pomax |
| MH | Stellaria pungens | Prickly Starwort |
| MH | Leucochrysum albicans | Hoary Sunray |
| MH | Isotoma axillaris | Rock Isotome |
| MTG | Joycea pallida | Silvertop Wallaby-grass |
| MTG | Lepidosperma laterale | Variable Sword-sedge |
| MTG | Lomandra filiformis | Wattle Mat-rush |
| MTG | Dianella revoluta s.l. | Black-anther Flax-lily |
| GF | Cheilanthes austrotenuifolia | Green Rock-fern |
| SC | Cassytha melantha | Coarse Dodder-laurel |
| SC | Hardenbergia violacea | Purple Coral-pea |

##### Recruitment:

Continuous

##### Organic Litter:

40 % cover

##### Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 28: Rocky Outcrop Shrubland - Victorian Alps bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Victorian Alps 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 regnans  Eucalyptus cypellocarpa | Mountain Ash  Mountain Grey-gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 3 | 25% | T |
| Medium Shrub | 3 | 20% | MS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 5 | 10% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Medium to Small Tufted Graminoid | 1 | 15% | MTG |
| Ground Fern | 2 | 20% | GF |
| Tree Fern | 1 | 5% | TRF |
| Scrambler or Climber | 1 | 5% | SC |
| Bryophytes/Lichens | na | 20% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Olearia argophylla | **Common Name**  Musk Daisy-bush |
| T | Acacia dealbata | Silver Wattle |
| MS | Coprosma hirtella | Rough Coprosma |
| MS | Olearia phlogopappa | Dusty Daisy-bush |
| MS | Pimelea axiflora | Bootlace Bush |
| MS | Coprosma quadrifida | Prickly Currant-bush |
| LH | Urtica incisa | Scrub Nettle |
| LH | Mentha laxiflora | Forest Mint |
| MH | Stellaria flaccida | Forest Starwort |
| MH | Australina pusilla ssp. muelleri | Shade Nettle |
| MH | Sambucus gaudichaudiana | White Elderberry |
| MH | Geranium potentilloides | Cinquefoil Cranesbill |
| SH | Galium propinquum | Maori Bedstraw |
| SH | Oxalis corniculata s.l. | Yellow Wood-sorrel |
| SH | Leptinella filicula | Mountain Cotula |
| LTG | Lepidosperma elatius | Tall Sword-sedge |
| MTG | Poa australis spp. agg. | Tussock Grass |
| MTG | Dianella tasmanica | Tasman Flax-lily |
| GF | Polystichum proliferum | Mother Shield-fern |
| GF | Pteridium esculentum | Austral Bracken |
| GF | Blechnum nudum | Fishbone Water-fern |
| TRF | Dicksonia antarctica | Soft Tree-fern |
| SC | Clematis aristata | Mountain Clematis |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 29: Damp Forest - Victorian Alps bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  50 % cover  **Logs:**  30 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Solanum nigrum sensu Willis (1972) Black Nightshade high low LNG 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**

Victorian Alps 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 delegatensis ssp. delegatensis  Eucalyptus regnans | Alpine Ash  Mountain Ash |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 3 | 25% | T |
| Medium Shrub | 7 | 15% | MS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 6 | 10% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 2 | 5% | MTG |
| Ground Fern | 4 | 25% | GF |
| Tree Fern | 1 | 15% | TRF |
| Scrambler or Climber | 1 | 5% | SC |
| Bryophytes/Lichens | na | 20% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia dealbata | **Common Name**  Silver Wattle |
| T | Pittosporum bicolor | Banyalla |
| MS | Olearia phlogopappa | Dusty Daisy-bush |
| MS | Polyscias sambucifolia | Elderberry Panax |
| MS | Cassinia aculeata | Common Cassinia |
| MS | Coprosma hirtella | Rough Coprosma |
| LH | Urtica incisa | Scrub Nettle |
| LH | Senecio linearifolius | Fireweed Groundsel |
| LH | Mentha laxiflora | Forest Mint |
| MH | Stellaria flaccida | Forest Starwort |
| MH | Acaena novae-zelandiae | Bidgee-widgee |
| MH | Hydrocotyle hirta | Hairy Pennywort |
| MH | Geranium potentilloides | Cinquefoil Cranesbill |
| SH | Leptinella filicula | Mountain Cotula |
| LTG | Carex appressa | Tall Sedge |
| MTG | Dianella tasmanica | Tasman Flax-lily |
| MTG | Poa ensiformis | Sword Tussock-grass |
| GF | Polystichum proliferum | Mother Shield-fern |
| GF | Pteridium esculentum | Austral Bracken |
| GF | Blechnum wattsii | Hard Water-fern |
| GF | Histiopteris incisa | Bat's Wing Fern |
| TRF | Dicksonia antarctica | Soft Tree-fern |
| SC | Clematis aristata | Mountain Clematis |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 30: Wet Forest - Victorian Alps bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  50 % cover  **Logs:**  30 m/0.1 ha.  **Weediness:**  There are no consistent weeds in this EVC.  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**

Victorian Alps bioregion

EVC 31: Cool Temperate Rainforest

##### Description:

Closed non-eucalypt forest to 25 m tall with occasional emergent eucalypts. Generally restricted to deeply incised gullies and gully-heads with southern aspects. Soils are well-developed gradational clay or sandy clay loams high in humus content. Rainfall is in the order of 1000-2000 mm a year.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species**  Various genera | **DBH(cm)**  70 cm | **#/ha**  20 / ha |

##### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 50% | Nothofagus cunninghamii  Atherosperma moschatum Acacia dealbata | Myrtle Beech  Southern Sassafras Silver Wattle |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 1 | 10% | T |
| Medium Shrub | 3 | 10% | MS |
| Small Shrub | 1 | 5% | SS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 4 | 5% | MH |
| Small or Prostrate Herb | 2 | 1% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 2 | 10% | MTG |
| Ground Fern | 5 | 25% | GF |
| Tree Fern | 1 | 10% | TRF |
| Bryophytes/Lichens | na | 40% | BL |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  MS |  | **Species typical of at least part of EVC range**  Olearia phlogopappa | **Common Name**  Dusty Daisy-bush |
| MS |  | Polyscias sambucifolia | Elderberry Panax |
| MS |  | Tasmannia lanceolata | Mountain Pepper |
| MS |  | Coprosma hirtella | Rough Coprosma |
| SS | r | Wittsteinia vacciniacea | Baw Baw Berry |
| MH |  | Hydrocotyle hirta | Hairy Pennywort |
| MH |  | Australina pusilla ssp. muelleri | Shade Nettle |
| MH |  | Acaena novae-zelandiae | Bidgee-widgee |
| MH |  | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| LTG |  | Carex appressa | Tall Sedge |
| MTG |  | Dianella tasmanica | Tasman Flax-lily |
| MTG |  | Libertia pulchella | Pretty Grass-flag |
| MTG |  | Poa ensiformis | Sword Tussock-grass |
| GF |  | Polystichum proliferum | Mother Shield-fern |
| GF |  | Blechnum wattsii | Hard Water-fern |
| GF |  | Grammitis billardierei | Common Finger-fern |
| GF |  | Blechnum fluviatile | Ray Water-fern |
| TRF |  | Dicksonia antarctica | Soft Tree-fern |
| SC |  | Clematis aristata | Mountain Clematis |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 31: Cool Temperate Rainforest - Victorian Alps bioregion | |
|  | **Recruitment:**  Continuous.  **Organic Litter:**  50 % 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 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**

Victorian Alps bioregion

EVC 35: Tableland Damp Forest

##### Description:

Tall eucalypt forest to 30 m tall with an understorey dominated by a tall, diverse shrub layer of broad-leaved shrubs and heaths with sometimes a scattering of tree-ferns. The ground layer is dominated by a variety of herbs and graminoids. Occurs on topographically protected south-facing slopes and occasionally in gully heads on northern or western slopes in low relief montane areas.

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

##### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Eucalyptus delegatensis ssp. delegatensis | Alpine Ash |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia dealbata | **Common Name**  Silver Wattle |
| T | Acacia obliquinervia | Mountain Hickory Wattle |
| MS | Polyscias sambucifolia | Elderberry Panax |
| MS | Coprosma hirtella | Rough Coprosma |
| MS | Olearia phlogopappa | Dusty Daisy-bush |
| MS | Cassinia aculeata | Common Cassinia |
| SS | Leucopogon hookeri | Mountain Beard-heath |
| LH | Derwentia derwentiana | Derwent Speedwell |
| LH | Senecio linearifolius | Fireweed Groundsel |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| MH | Lagenophora stipitata | Common Bottle-daisy |
| MH | Acaena novae-zelandiae | Bidgee-widgee |
| MH | Gonocarpus tetragynus | Common Raspwort |
| SH | Leptinella filicula | Mountain Cotula |
| MTG | Dianella tasmanica | Tasman Flax-lily |
| MTG | Stylidium graminifolium s.l. | Grass Trigger-plant |
| MTG | Poa ensiformis | Sword Tussock-grass |
| GF | Pteridium esculentum | Austral Bracken |
| GF | Polystichum proliferum | Mother Shield-fern |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 35: Tableland Damp Forest - Victorian Alps bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  50 % cover  **Logs:**  30 m/0.1 ha.  **Weediness:**  There are no consistent weeds in this EVC.  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**

Victorian Alps bioregion

EVC 36: Montane Dry Woodland

##### Description:

Occurs on dry and exposed mid to upper slopes at montane elevations, often extending onto ridges in high rainfall areas. Effective rainfall may be enhanced by cold air drainage, low cloud cover and in some cases, persistent snow cover. The overstorey trees vary from an open forest to an open woodland to 15 m tall, according to altitude, precipitation and frequency of fire. The shrubby understorey is an unusual combination of species, which tolerate exposed montane conditions and species which enjoy the increased moisture available from cloud and fog drip. Generally the lower rainfall, less fertile geologies support a shrubby understorey with a lower overall species diversity. The ground layer is rarely high in grass and herb cover and is usually dominated by tussock grasses.

|  |  |  |
| --- | --- | --- |
| **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 | 2 | 20% | T |
| Mallee Tree | 1 | 1% | MT |
| Medium Shrub | 6 | 20% | MS |
| Small Shrub | 2 | 5% | SS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 9 | 20% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Medium to Small Tufted Graminoid | 6 | 15% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 5% | MNG |
| Ground Fern | 1 | 5% | GF |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 36: Montane Dry Woodland - Victorian Alps bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia dealbata Silver Wattle  T Acacia obliquinervia Mountain Hickory Wattle  MS Coprosma hirtella Rough Coprosma  MS Polyscias sambucifolia Elderberry Panax  MS Daviesia ulicifolia Gorse Bitter-pea  MS Cassinia aculeata Common Cassinia  SS Olearia erubescens Moth Daisy-bush  SS Leucopogon hookeri Mountain Beard-heath  SS Platylobium formosum Handsome Flat-pea  LH Derwentia derwentiana Derwent Speedwell  MH Stellaria pungens Prickly Starwort  MH Gonocarpus tetragynus Common Raspwort  MH Viola betonicifolia ssp. betonicifolia Showy Violet  MH Asperula scoparia Prickly Woodruff  SH Leptinella filicula Mountain Cotula  LTG Lomandra longifolia Spiny-headed Mat-rush  MTG Stylidium graminifolium s.l. Grass Trigger-plant  MTG Dianella tasmanica Tasman Flax-lily  MTG Poa sieberiana Grey Tussock-grass  MTG Arthropodium milleflorum s.l. Pale Vanilla-lily  GF Pteridium esculentum Austral Bracken  GF Polystichum proliferum Mother Shield-fern  SC Clematis aristata Mountain Clematis  **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low  Published by the Victorian Government Department of Sustainability and Environment 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**

Victorian Alps 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 - Victorian Alps 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**

Victorian Alps bioregion

EVC 38: Montane Damp Forest

##### Description:

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

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

##### Tree Canopy Cover:

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

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia dealbata | **Common Name**  Silver Wattle |
| T | Acacia obliquinervia | Mountain Hickory Wattle |
| MS | Coprosma hirtella | Rough Coprosma |
| MS | Polyscias sambucifolia | Elderberry Panax |
| MS | Olearia phlogopappa | Dusty Daisy-bush |
| MS | Cassinia aculeata | Common Cassinia |
| SS | Olearia erubescens | Moth Daisy-bush |
| SS | Leucopogon hookeri | Mountain Beard-heath |
| SS | Platylobium formosum | Handsome Flat-pea |
| LH | Derwentia derwentiana | Derwent Speedwell |
| LH | Senecio linearifolius | Fireweed Groundsel |
| LH | Picris angustifolia | Native Picris |
| MH | Stellaria pungens | Prickly Starwort |
| MH | Acaena novae-zelandiae | Bidgee-widgee |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| MH | Viola betonicifolia ssp. betonicifolia | Showy Violet |
| SH | Leptinella filicula | Mountain Cotula |
| SH | Chiloglottis gunnii s.l. | Common Bird-orchid |
| MTG | Dianella tasmanica | Tasman Flax-lily |
| MTG | Poa ensiformis | Sword Tussock-grass |
| MTG | Stylidium graminifolium s.l. | Grass Trigger-plant |
| MTG | Poa sieberiana | Grey Tussock-grass |
| GF | Polystichum proliferum | Mother Shield-fern |
| GF | Pteridium esculentum | Austral Bracken |
| SC | Clematis aristata | Mountain Clematis |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 38: Montane Damp Forest - Victorian Alps bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  50 % cover  **Logs:**  30 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low  Published by the Victorian Government Department of Sustainability and Environment 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**

Victorian Alps bioregion

EVC 39: Montane Wet Forest

##### Description:

Grows on the most sheltered wet sites such as gully heads and south facing slopes at montane elevations in high rainfall areas. Soils are deep, fertile, well-drained and structureless and although well-drained, may remain saturated for long periods. The overstorey forms a tall open eucalypt forest to 30 m tall over a secondary tree layer with occasional tall shrubs which provide shade and protection for a fern-rich ground layer. Scattered herbs occur in gaps in the ground layer.

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

##### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Eucalyptus regnans  Euclayptus delegatensis ssp. delegatensis | Mountain Ash  Alpine Ash |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia dealbata | **Common Name**  Silver Wattle |
| T | Olearia argophylla | Musk Daisy-bush |
| MS | Olearia phlogopappa | Dusty Daisy-bush |
| MS | Polyscias sambucifolia | Elderberry Panax |
| MS | Cassinia aculeata | Common Cassinia |
| MS | Tasmannia lanceolata | Mountain Pepper |
| LH | Senecio linearifolius | Fireweed Groundsel |
| LH | Mentha laxiflora | Forest Mint |
| MH | Sambucus gaudichaudiana | White Elderberry |
| MH | Hydrocotyle hirta | Hairy Pennywort |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| MH | Stellaria flaccida | Forest Starwort |
| SH | Leptostigma reptans | Dwarf Nertera |
| LTG | Dryopoa dives | Giant Mountain-grass |
| LNG | Tetrarrhena juncea | Forest Wire-grass |
| MTG | Dianella tasmanica | Tasman Flax-lily |
| MTG | Poa ensiformis | Sword Tussock-grass |
| GF | Polystichum proliferum | Mother Shield-fern |
| GF | Pteridium esculentum | Austral Bracken |
| GF | Histiopteris incisa | Bat's Wing Fern |
| TRF | Dicksonia antarctica | Soft Tree-fern |
| SC | Clematis aristata | Mountain Clematis |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 39: Montane Wet Forest - Victorian Alps bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  50 % cover  **Logs:**  30 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**

Victorian Alps bioregion

EVC 40: Montane Riparian Woodland

##### Description:

Associated with the peat-rich flats of perennial, meandering streams which flow through Montane Dry Woodland at montane elevations. Characterised by a low open woodland to 10 m tall with a dense riparian shrub layer lining the smaller creeks but on the larger streams may be largely non-treed. The ground layer contains a dense sward of grasses, herbs and sedges often associated with creeks or river margins.

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

##### Large trees+:

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

**Tree Canopy Cover+:**

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus rubida  Eucalyptus camphora ssp. humeana Eucalyptus stellulata | Candlebark  Mountain Swamp-gum Black Sallee |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree**+** |  | 5% | IT |
| Understorey Tree or Large Shrub | 1 | 10% | T |
| Medium Shrub | 3 | 15% | MS |
| Small Shrub | 3 | 5% | SS |
| Large Herb | 4 | 10% | LH |
| Medium Herb | 12 | 20% | MH |
| Small or Prostrate Herb | 4 | 10% | SH |
| Large Tufted Graminoid | 3 | 5% | LTG |
| Large Non-tufted Graminoid | 1 | 1% | LNG |
| Medium to Small Tufted Graminoid | 6 | 30% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 5% | MNG |
| Ground Fern | 2 | 5% | GF |
| Bryophytes/Lichens | na | 20% | BL |

**Recruitment:**

Continuous

##### Organic Litter:

40 % cover

##### Logs:

15 m/0.1 ha.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 40: Montane Riparian Woodland - Victorian Alps bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Leptospermum grandifolium Mountain Tea-tree  MS Baeckea gunniana Alpine Baeckea  MS Leptospermum myrtifolium Myrtle Tea-tree  MS Pimelea axiflora Bootlace Bush  SS Hovea heterophylla Common Hovea  SS Leucopogon hookeri Mountain Beard-heath  SS Epacris microphylla s.l. Coral Heath  SS Rubus parvifolius Small-leaf Bramble  LH Villarsia reniformis Running Marsh-flower  LH Veronica gracilis Slender Speedwell  LH Senecio hispidulus Rough Fireweed  MH Asperula pusilla Alpine Woodruff  MH Asperula gunnii Mountain Woodruff  MH Geranium potentilloides Cinquefoil Cranesbill  SH Dichondra repens Kidney-weed  SH Ranunculus amphitrichus Small River Buttercup  SH r Gratiola nana Matted Brooklime  SH Scleranthus biflorus s.l. Twin-flower Knawel  LTG Deyeuxia quadriseta Reed Bent-grass  LTG r Scirpus polystachyus Large-head Club-sedge  LTG Juncus gregiflorus Green Rush  LTG Carex longebrachiata Bergalia Tussock  MTG Carex gaudichaudiana Fen Sedge  MTG Lachnagrostis filiformis Common Blown-grass  MTG Lachnagrostis aemula s.l. Leafy Blown-grass  MTG Carex blakei Alpine Sedge  MNG Isolepis crassiuscula Alpine Club-sedge  MNG Baumea gunnii Slender Twig-sedge  MNG Baloskion australe Mountain Cord-rush  MNG Luzula campestris spp. agg. Field Woodrush  GF Polystichum proliferum Mother Shield-fern  GF Blechnum minus Soft Water-fern  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Rosa rubiginosa Sweet Briar high high  LH Cirsium vulgare Spear Thistle high high  LH Rumex crispus Curled Dock high high  MH Hypochoeris radicata Cat's Ear high low  MH Prunella vulgaris Self-heal high high  MH Trifolium dubium Suckling Clover high low MH Cerastium glomeratum s.l. Common Mouse-ear Chickweed high low  MH Taraxacum officinale spp. agg. Garden Dandelion high low MH Batrachium trichophyllum Water Fennel high high  MH Acetosella vulgaris Sheep Sorrel high high  SH Trifolium repens var. repens White Clover high high  LNG Holcus lanatus Yorkshire Fog high high MTG Anthoxanthum odoratum Sweet Vernal-grass high high MNG Aira caryophyllea Silvery 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**

Victorian Alps Bioregion

## EVC 40\_61: Treed Montane Riparian Woodland

#### Description:

Associated with the peat-rich flats of perennial, meandering streams which flow through Montane Dry Woodland at montane elevations. Characterised by a low open woodland to 10 m tall with a dense riparian shrub layer lining the smaller creeks but on the larger streams may be largely non-treed. The ground layer contains a dense sward of grasses, herbs and sedges often associated with creeks or river margins.

#### Large Trees:

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

*Eucalyptus spp.*

60 cm

10 / ha

#### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | *Eucalyptus camphora subsp. humeana Eucalyptus rubida*  *Eucalyptus stellulata* | Mountain Swamp-gum Candlebark  Black Sallee |

**Understorey: Lifeform**

**#Spp %Cover LF Code**

Immature Canopy Tree 5% IT

Understorey Tree or Large Shrub Medium Shrub

Small Shrub Large Herb Medium Herb

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

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

1 10% T

3 15% MS

1. 5% SS
2. 10% LH

12 20% MH

4 10% SH

3 5% LTG

1 1% LNG

6 30% MTG

3 5% MNG

2 5% GF

Bryophytes/Lichens 20% BL



Ecological Vegetation Class Bioregion Benchmark

|  |  |  |
| --- | --- | --- |
| EVC 40\_61: Treed Montane Riparian Woodland | | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T *Leptospermum grandifolium* Mountain Tea-tree  MS *Baeckea gunniana* Alpine Baeckea  MS *Leptospermum myrtifolium* Myrtle Tea-tree  MS *Pimelea axiflora* Bootlace Bush  SS *Epacris microphylla s.l.* Coral Heath  SS *Hovea heterophylla* Common Hovea  SS *Leucopogon hookeri* Mountain Beard-heath  SS *Rubus parvifolius* Small-leaf Bramble  LH *Senecio hispidulus s.l.* Rough Fireweed  LH *Veronica gracilis* Slender Speedwell  LH *Villarsia reniformis* Running Marsh-flower  MH *Asperula gunnii* Mountain Woodruff  MH *Asperula pusilla* Alpine Woodruff  MH *Geranium potentilloides* Cinquefoil Cranesbill  SH *Dichondra repens* Kidney-weed  SH r *Gratiola nana* Matted Brooklime  SH *Ranunculus amphitrichus* Small River Buttercup  SH *Scleranthus biflorus s.l.* Twin-flower Knawel  LTG *Carex longebrachiata* Bergalia Tussock  LTG *Deyeuxia quadriseta* Reed Bent-grass  LTG *Juncus gregiflorus* Green Rush  LTG r *Scirpus polystachyus* Large-head Club-sedge LNG *Various spp.*  MTG r *Carex blakei* Alpine Sedge  MTG *Carex gaudichaudiana* Fen Sedge  MTG *Lachnagrostis aemula s.l.* Leafy Blown-grass  MTG *Lachnagrostis filiformis* Common Blown-grass  MNG *Baloskion australe* Mountain Cord-rush  MNG *Baumea gunnii* Slender Twig-sedge  MNG *Isolepis crassiuscula* Alpine Club-sedge  MNG *Luzula campestris spp. agg.* Field Woodrush  GF *Blechnum minus* Soft Water-fern  GF *Polystichum proliferum* Mother Shield-fern  **Recruitment:**  Continuous.  **Organic Litter:**  40 % cover  **Logs:**  15 m/0.1ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH *Prunella vulgaris* Self-heal high high  LH *Cirsium vulgare* Spear Thistle high high  LNG *Holcus lanatus* Yorkshire Fog high high SH *Trifolium repens var. repens* White Clover high high MTG *Anthoxanthum odoratum* Sweet Vernal-grass high high LH *Rumex crispus* Curled Dock high high  MS *Rosa rubiginosa* Sweet Briar high high  MH *Acetosella vulgaris* Sheep Sorrel high high MH *Batrachium trichophyllum* Water Fennel high high MH *Cerastium glomeratum s.l.* Common Mouse-ear high low  Chickweed | |
|  |  |  |
|  | Ecological Vegetation Class Bioregion Benchmark | |



|  |  |
| --- | --- |
| EVC 40\_61: Treed Montane Riparian Woodland | |
|  | **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH *Taraxacum officinale spp. agg.* Garden Dandelion high low MH *Trifolium dubium* Suckling Clover high low  MH *Hypochoeris radicata* Cat's Ear high low  MNG *Aira elegantissima* Delicate Hair-grass high low  MNG *Aira caryophyllea* Silvery Hair-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**

Victorian Alps bioregion

EVC 41: Montane Riparian Thicket

##### Description:

Occurs in montane and sub-alpine areas, often within Montane Damp Forest along drainage lines, streams with gentle gradients and in soaks at the heads of gullies on south-facing aspects. The waterlogged soils are colluviums or alluviums rich in organic matter and it is a closed shrubland to 8 m tall in structure, often forming a narrow, linear strip. The understorey consists of a variety of shade-tolerant species. Along the stream flats ferns are the common life form while sedges, grasses and herbs form a sparse but diverse ground layer.

##### Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Leptospermum grandifolium  Nothofagus cunninghamii | Mountain Tea-tree  Myrtle Beech |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** Medium Shrub | **#Spp**  1 | **%Cover**  5% | **LF code**  MS |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Tufted Graminoid | 2 | 40% | LTG |
| Medium to Small Tufted Graminoid | 2 | 1% | MTG |
| Ground Fern | 3 | 20% | GF |
| Tree Fern | 1 | 5% | TRF |
| Epiphyte | 2 | 1% | EP |
| Bryophytes/Lichens | na | 20 % | BL |
| **Total understorey projective foliage cover** |  | **95%** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  MS |  | **Species typical of at least part of EVC range**  Tasmannia lanceolata | **Common Name**  Mountain Pepper |
| SH |  | Chiloglottis gunnii s.l. | Common Bird-orchid |
| SH |  | Chiloglottis cornuta | Green Bird-orchid |
| LTG |  | Gahnia sieberiana | Red-fruit Saw-sedge |
| LTG |  | Juncus usitatus | Billabong Rush |
| MTG |  | Isolepis subtilissima | Mountain Club-sedge |
| MTG |  | Dianella tasmanica | Tasman Flax-lily |
| MTG | r | Carex alsophila | Forest Sedge |
| GF |  | Grammitis billardierei | Common Finger-fern |
| GF |  | Blechnum wattsii | Hard Water-fern |
| GF |  | Polystichum proliferum | Mother Shield-fern |
| GF |  | Blechnum nudum | Fishbone Water-fern |
| TRF |  | Todea barbara | Austral King-fern |
| TRF |  | Dicksonia antarctica | Soft Tree-fern |
| EP |  | Microsorum pustulatum ssp. pustulatum | Kangaroo Fern |
| EP |  | Hymenophyllum peltatum | Alpine Filmy Fern |

**Recruitment:**

Continuous

##### Organic Litter:

40 % cover

##### Logs:

5 m/0.1 ha.

##### Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 41: Montane Riparian Thicket - Victorian Alps bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Victorian Alps bioregion

EVC 42: Sub-alpine Shrubland

##### Description:

A sparse to dense dry shrubland that occurs above 1200 m where snow persists for long periods. Species diversity is relatively low due to the harsh environment of long periods of low temperatures, the dominance of exposed rock and shallow, skeletal soils. The dominant feature of this EVC is the dense, though sometimes patchy shrub-layer under scattered mallee-form eucalypts such as Snow Gum Eucalyptus pauciflora, growing where soils accumulate in rock crevices. In the ground stratum herbs and grasses may be present in high numbers if the shrub layer is sparse.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 6 | 40% | MS |
| Small Shrub | 4 | 15% | SS |
| Prostrate Shrub | 2 | 1% | PS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 8 | 15% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Medium to Small Tufted Graminoid | 5 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 5% | MNG |
| Bryophytes/Lichens | na | 20% | BL |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  MS |  | **Species typical of at least part of EVC range**  Podolobium alpestre | **Common Name**  Alpine Podolobium |
| MS |  | Bossiaea foliosa | Leafy Bossiaea |
| MS |  | Callistemon sieberi | River Bottlebrush |
| MS |  | Coprosma hirtella | Rough Coprosma |
| SS |  | Baeckea ramosissima | Rosy Baeckea |
| SS |  | Kunzea muelleri | Yellow Kunzea |
| SS |  | Leucopogon fraseri | Sharp Beard-heath |
| SS | r | Trochocarpa clarkei | Lilac Berry |
| PS |  | Pimelea alpina | Alpine Rice-flower |
| PS | r | Pimelea biflora | Matted Rice-flower |
| PS |  | Persoonia chamaepeuce | Dwarf Geebung |
| LH |  | Brachyscome aculeata | Branching Daisy |
| LH |  | Senecio pinnatifolius | Variable Groundsel |
| LH |  | Senecio gunnii | Mountain Fireweed |
| MH |  | Celmisia asteliifolia spp. agg. | Silver Daisy |
| MH |  | Goodenia hederacea | Ivy Goodenia |
| MH |  | Erigeron pappocromus spp. agg. | Violet Fleabane |
| SH |  | Leptinella filicula | Mountain Cotula |
| SH |  | Goodenia lanata | Trailing Goodenia |
| SH | r | Stackhousia pulvinaris | Alpine Stackhousia |
| SH |  | Chiloglottis gunnii s.l. | Common Bird-orchid |
| MTG |  | Poa fawcettiae | Horny Snow-grass |
| MTG |  | Stylidium graminifolium s.l. | Grass Trigger-plant |
| MTG |  | Dianella tasmanica | Tasman Flax-lily |
| MTG |  | Deyeuxia scaberula | Rough Bent-grass |
| MNG |  | Luzula campestris spp. agg. | Field Woodrush |
| MNG |  | Empodisma minus | Spreading Rope-rush |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 42: Sub-alpine Shrubland - Victorian Alps bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  40 % 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  LNG 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**

Victorian Alps bioregion

EVC 43: Sub-alpine Woodland

##### Description:

Grows on a wide range of geologies and aspects, in the higher altitudinal levels above 1200 m. Rainfall is relatively high and snow may persist for long periods over winter. Soils are generally skeletal sandy clay loams with a rich humus topsoil layer. A low, open woodland to 10 m tall dominated by Snow Gum Eucalyptus pauciflora, with the understorey variously consisting of a rich suite of grasses and herbs, or a dense layer of woody shrubs, depending on soil fertility.

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

##### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus pauciflora | Snow Gum |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia obliquinervia | **Common Name**  Mountain Hickory Wattle |
| MS | Podolobium alpestre | Alpine Podolobium |
| MS | Olearia phlogopappa | Dusty Daisy-bush |
| MS | Tasmannia xerophila | Alpine Pepper |
| SS | Leucopogon hookeri | Mountain Beard-heath |
| LH | Senecio gunnii | Mountain Fireweed |
| MH | Stellaria pungens | Prickly Starwort |
| MH | Oreomyrrhis eriopoda | Australian Caraway |
| MH | Viola betonicifolia ssp. betonicifolia | Showy Violet |
| MH | Asperula gunnii | Mountain Woodruff |
| MTG | Stylidium graminifolium s.l. | Grass Trigger-plant |
| MTG | Dianella tasmanica | Tasman Flax-lily |
| MTG | Poa australis spp. agg. | Tussock Grass |
| MTG | Carex breviculmis | Common Grass-sedge |
| GF | Polystichum proliferum | Mother Shield-fern |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 43: Sub-alpine Woodland - Victorian Alps bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  10 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Acetosella vulgaris Sheep Sorrel high high  MH Hypochoeris radicata Cat's Ear 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**

Victorian Alps 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 dives  Eucalyptus mannifera ssp. mannifera | Broad-leaved Peppermint  Brittle Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 8 | 35% | MS |
| Small Shrub | 2 | 10% | SS |
| Prostrate Shrub | 2 | 5% | PS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 1 | 1% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Medium to Small Tufted Graminoid | 3 | 5% | MTG |
| Epiphyte | 1 | 1% | EP |
| Bryophytes/Lichens | na | 10% | BL |
| **Total understorey projective foliage cover** |  | **55%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia obliquinervia | **Common Name**  Mountain Hickory Wattle |
| MS | Monotoca scoparia | Prickly Broom-heath |
| MS | Daviesia ulicifolia | Gorse Bitter-pea |
| MS | Cassinia longifolia | Shiny Cassinia |
| MS | Exocarpos strictus | Pale-fruit Ballart |
| SS | Rhytidosporum procumbens | White Marianth |
| PS | Persoonia chamaepeuce | Dwarf Geebung |
| PS | Acrotriche serrulata | Honey-pots |
| LH | Senecio tenuiflorus | Slender Fireweed |
| LH | Chrysocephalum semipapposum | Clustered Everlasting |
| MH | Gonocarpus tetragynus | Common Raspwort |
| SH | Goodenia lanata | Trailing Goodenia |
| MTG | Stylidium graminifolium s.l. | Grass Trigger-plant |
| MTG | Poa sieberiana | Grey Tussock-grass |
| MTG | Dianella tasmanica | Tasman Flax-lily |
| SC | Cassytha glabella | Slender Dodder-laurel |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 45: Shrubby Foothill Forest - Victorian Alps bioregion | |
|  | **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 30 years.  **Organic Litter:**  40 % 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 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**

Victorian Alps 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 nortonii  Eucalyptus macrorhyncha Eucalyptus goniocalyx s.l. | Silver Bundy  Red Stringybark Bundy |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 4 | 20% | MS |
| Small Shrub | 3 | 20% | SS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 11 | 20% | MH |
| Medium to Small Tufted Graminoid | 4 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 5% | MNG |
| Ground Fern | 1 | 1% | GF |
| Bryophytes/Lichens | na | 10% | BL |
| **Total understorey projective foliage coverage** |  | **70%** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  T |  | **Species typical of at least part of EVC range**  Allocasuarina verticillata | **Common Name**  Drooping Sheoak |
| MS |  | Calytrix tetragona | Common Fringe-myrtle |
| MS |  | Cassinia longifolia | Shiny Cassinia |
| MS | R r | Grevillea jephcottii | Green Grevillea |
| MS |  | Acacia verniciflua | Varnish Wattle |
| SS |  | Micromyrtus ciliata | Heath-myrtle |
| SS |  | Tetratheca ciliata | Pink-bells |
| SS |  | Dillwynia sericea s.l. | Showy Parrot-pea |
| LH |  | Stackhousia viminea | Slender Stackhousia |
| LH |  | Derwentia perfoliata | Digger's Speedwell |
| MH |  | Euchiton collinus s.s. | Creeping Cudweed |
| MH |  | Drosera peltata | Pale Sundew |
| MH |  | Daucus glochidiatus | Australian Carrot |
| MH |  | Gonocarpus elatus | Tall Raspwort |
| MTG |  | Dichelachne sieberiana | Rough Plume-grass |
| MTG | r | Poa sieberiana var. cyanophylla | Blue-leaf Tussock-grass |
| MTG |  | Juncus bufonius | Toad Rush |
| MTG |  | Dianella revoluta s.l. | Black-anther Flax-lily |
| MNG |  | Microlaena stipoides var. stipoides | Weeping Grass |
| GF |  | Cheilanthes sieberi ssp. sieberi | Narrow Rock-fern |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 72: Granitic Hills Woodland - Victorian Alps 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 MH Centaurium erythraea Common Centaury high low MNG Aira spp. Hair Grass high low  Und Vulpia spp. 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**

Victorian Alps 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 - Victorian Alps 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 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**

Victorian Alps 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 camphora ssp. humeana  Eucalyptus radiata s.l. | Mountain Swamp-gum  Narrow-leaf Peppermint |

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 83: Swampy Riparian Woodland - Victorian Alps bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia melanoxylon Blackwood  T Acacia dealbata Silver Wattle  MS Coprosma quadrifida Prickly Currant-bush  MS Leptospermum continentale Prickly Tea-tree  MS Epacris breviflora Drumstick Heath  SS Rubus parvifolius Small-leaf Bramble  LH Mentha laxiflora Forest Mint  LH Epilobium gunnianum Gunn's Willow-herb  LH Urtica incisa Scrub Nettle  LH Senecio minimus Shrubby Fireweed  MH Acaena novae-zelandiae Bidgee-widgee  MH Geranium potentilloides Cinquefoil Cranesbill  MH Asperula scoparia Prickly Woodruff  SH Hydrocotyle hirta Hairy Pennywort  SH Dichondra repens Kidney-weed  SH Hypericum japonicum Matted St John's Wort  SH Gonocarpus micranthus ssp. micranthus Creeping Raspwort  SH Hydrocotyle tripartita Slender Pennywort  LTG Cyperus lucidus Leafy Flat-sedge  LTG Carex appressa Tall Sedge  LTG Gahnia sieberiana Red-fruit Saw-sedge  LTG Poa labillardierei Common Tussock-grass  LNG Phragmites australis Common Reed  MTG Poa ensiformis Sword Tussock-grass  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Eleocharis gracilis Slender Spike-sedge  MNG Echinopogon ovatus Common Hedgehog-grass  GF Pteridium esculentum Austral Bracken  GF Blechnum nudum Fishbone Water-fern  GF Polystichum proliferum Mother Shield-fern  GF Blechnum minus Soft Water-fern  TRF Dicksonia antarctica Soft Tree-fern  **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Rubus fruticosus spp. agg. Blackberry high high LH Cirsium vulgare Spear Thistle high high MH Hypochoeris radicata Cat's Ear high low  MH Prunella vulgaris Self-heal high low  MH Mimulus moschatus Musk Monkey-flower high low  MH Lotus corniculatus Bird's-foot Trefoil high high SH Trifolium repens var. repens White Clover high low  LNG Holcus lanatus Yorkshire Fog high high  MTG Anthoxanthum odoratum Sweet Vernal-grass high high  Published by the Victorian Government Department of Sustainability and Environment 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**

Victorian Alps bioregion

EVC 169: Dry Valley Forest

##### Description:

Open eucalypt forest to 20 m tall occurring along minor gullies, ephemeral streams and river flats. The overstorey may contain a range of eucalypts typical of drier environments over an understorey of scattered shrubs and a notably mossy herb-rich groundcover.

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

##### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus macrorhyncha  Eucalyptus cypellocarpa | Red Stringybark  Mountain Grey-gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 4 | 15% | T |
| Medium Shrub | 9 | 30% | MS |
| Small Shrub | 3 | 10% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 4 | 5% | LH |
| Medium Herb | 11 | 15% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Large Tufted Graminoid | 3 | 5% | LTG |
| Medium to Small Tufted Graminoid | 4 | 15% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Ground Fern | 3 | 10% | GF |
| Tree Fern | 1 | 5% | TRF |
| Scrambler or Climber | 2 | 5% | SC |
| Bryophytes/Lichens | na | 10% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 169: Dry Valley Forest - Victorian Alps bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Olearia argophylla Musk Daisy-bush  T Acacia dealbata Silver Wattle  MS Pimelea axiflora Bootlace Bush  MS Olearia phlogopappa Dusty Daisy-bush  MS Coprosma quadrifida Prickly Currant-bush  MS Goodia lotifolia Golden Tip  SS Tetratheca pilosa Hairy Pink-bells  SS Hibbertia obtusifolia Grey Guinea-flower  SS Olearia megalophylla Large-leaf Daisy-bush  LH Stypandra glauca Nodding Blue-lily  LH Chrysocephalum semipapposum Clustered Everlasting  MH Stellaria pungens Prickly Starwort  MH Hydrocotyle hirta Hairy Pennywort  MH Gonocarpus tetragynus Common Raspwort  SH Leptinella filicula Mountain Cotula  SH Chiloglottis gunnii s.l. Common Bird-orchid  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Gahnia sieberiana Red-fruit Saw-sedge  LTG Deyeuxia frigida Forest Bent-grass  MTG Poa australis spp. agg. Tussock Grass  MTG Libertia pulchella Pretty Grass-flag  MTG Dianella revoluta s.l. Black-anther Flax-lily  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Blechnum wattsii Hard Water-fern  GF Polystichum proliferum Mother Shield-fern  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 Cerastium glomeratum s.l. Common Mouse-ear Chickweed 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**

Victorian Alps bioregion

EVC 175: Grassy Woodland

##### Description:

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

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

##### Tree Canopy Cover:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **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 | 1 | 1% | SS |
| Large Herb | 5 | 10% | LH |
| Medium Herb | 7 | 20% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Large Tufted Graminoid | 1 | 1% | 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 | 5% | SC |
| Bryophytes/Lichens | na | 10% | BL |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  MS |  | **Species typical of at least part of EVC range**  Exocarpos strictus | **Common Name**  Pale-fruit Ballart |
| MS | R r | Discaria pubescens | Australian Anchor Plant |
| MS |  | Hymenanthera dentata s.l. | Tree Violet |
| MS | r | Pimelea pauciflora | Poison Rice-flower |
| SS |  | Pimelea glauca | Smooth Rice-flower |
| PS | r | Muehlenbeckia axillaris | Matted Lignum |
| LH |  | Ajuga australis | Austral Bugle |
| LH |  | Derwentia perfoliata | Digger's Speedwell |
| LH |  | Senecio quadridentatus | Cotton Fireweed |
| LH |  | Wahlenbergia gracilis s.l. | Sprawling Bluebell |
| MH |  | Geranium solanderi s.l. | Austral Cranesbill |
| MH |  | Daucus glochidiatus | Australian Carrot |
| MH |  | Gonocarpus tetragynus | Common Raspwort |
| MH |  | Plantago hispida | Hairy Plantain |
| SH | r | Scleranthus diander | Tufted Knawel |
| SH |  | Convolvulus erubescens spp. agg. | Pink Bindweed |
| SH |  | Desmodium varians | Slender Tick-trefoil |
| LTG |  | Austrostipa blackii | Crested Spear-grass |
| MTG |  | Themeda triandra | Kangaroo Grass |
| MTG |  | Poa hookeri | Hooker's Tussock-grass |
| MTG |  | Carex breviculmis | Common Grass-sedge |
| MTG |  | Elymus scaber var. scaber | Common Wheat-grass |
| MNG |  | Poa tenera | Slender Tussock-grass |
| GF | r | Asplenium trichomanes ssp. quadrivalens | Common Spleenwort |
| SC |  | Glycine clandestina | Twining Glycine |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 175: Grassy Woodland - Victorian Alps bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Verbascum virgatum Twiggy Mullein high high  LH Cirsium vulgare Spear Thistle high low  LH Dianthus armeria Deptford Pink high low  MH Hypochoeris radicata Cat's Ear high low  MH Trifolium campestre var. campestre Hop Clover high high MH Centaurium erythraea Common Centaury high low  MH Veronica arvensis Wall Speedwell high low MH Trifolium arvense var. arvense Hare's-foot Clover high high  MH Cerastium glomeratum s.l. Common Mouse-ear Chickweed high high SH Trifolium repens var. repens White Clover high high MNG Aira caryophyllea Silvery Hair-grass high high  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**

Victorian Alps bioregion

EVC 192: Montane Rocky Shrubland

##### Description:

Treeless or sparsely treed shrubland of rocky alpine peaks greater than 1000m above sea level which are subject to low cloud cover and snowfall during winter. When present, trees are often stunted and low-growing and may form part of the dominant shrub layer.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 8 | 40% | MS |
| Small Shrub | 2 | 5% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 5 | 5% | LH |
| Medium Herb | 7 | 5% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Medium to Small Tufted Graminoid | 4 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Ground Fern | 3 | 5% | GF |
| Scrambler or Climber | 1 | 1% | SC |
| Bryophytes/Lichens | na | 20% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Tasmannia lanceolata | **Common Name**  Mountain Pepper |
| MS | Coprosma hirtella | Rough Coprosma |
| MS | Leucopogon gelidus | Drooping Beard-heath |
| MS | Olearia phlogopappa | Dusty Daisy-bush |
| SS | Olearia erubescens | Moth Daisy-bush |
| SS | Leucopogon hookeri | Mountain Beard-heath |
| SS | Rubus parvifolius | Small-leaf Bramble |
| PS | Platylobium formosum | Handsome Flat-pea |
| LH | Senecio linearifolius | Fireweed Groundsel |
| LH | Arthropodium milleflorum s.l. | Pale Vanilla-lily |
| LH | Derwentia derwentiana | Derwent Speedwell |
| LH | Senecio gunnii | Mountain Fireweed |
| MH | Stellaria pungens | Prickly Starwort |
| MH | Craspedia glauca spp. agg. | Common Billy-buttons |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| MH | Gonocarpus tetragynus | Common Raspwort |
| SH | Leptinella filicula | Mountain Cotula |
| SH | Chiloglottis gunnii s.l. | Common Bird-orchid |
| LTG | Deyeuxia frigida | Forest Bent-grass |
| LTG | Carex appressa | Tall Sedge |
| MTG | Dianella tasmanica | Tasman Flax-lily |
| MTG | Luzula meridionalis | Common Woodrush |
| MTG | Stylidium graminifolium s.l. | Grass Trigger-plant |
| MTG | Luzula meridionalis var. flaccida | Common Woodrush |
| MNG | Poa tenera | Slender Tussock-grass |
| GF | Polystichum proliferum | Mother Shield-fern |
| GF | Blechnum penna-marina ssp. alpina | Alpine Water-fern |
| GF | Asplenium flabellifolium | Necklace Fern |
| SC | Clematis aristata | Mountain Clematis |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 192: Montane Rocky Shrubland - Victorian Alps bioregion | |
|  | **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 30 years.  **Organic Litter:**  40 % cover  **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 Cerastium glomeratum s.l. Common Mouse-ear Chickweed 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**

Victorian Alps bioregion

EVC 201: Shrubby Wet Forest

##### Description:

Tall eucalypt forest 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. Herbs may also be abundant where light penetrates the ground layer.

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

##### Tree Canopy Cover:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **%cover**  40% | **Character Species**  Eucalyptus delegatensis ssp. delegatensis |  | **Common Name**  Alpine Ash | |
|  | Eucalyptus croajingolensis  Eucalyptus obliqua |  | Gippsland Peppermint  Messmate Stringybark | |
| **Understorey:** | |  |  |  |
| **Life form** | | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree | |  | 5% | IT |
| Understorey Tree or Large Shrub | | 2 | 20% | T |
| Medium Shrub | | 7 | 25% | MS |
| Small Shrub | | 3 | 10% | SS |
| Large Herb | | 2 | 1% | LH |
| Medium Herb | | 8 | 15% | MH |
| Small or Prostrate Herb | | 2 | 1% | SH |
| Large Tufted Graminoid | | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | | 6 | 15% | MTG |
| Medium to Tiny Non-tufted Graminoid | | 1 | 1% | MNG |
| Ground Fern | | 2 | 5% | GF |
| Bryophytes/Lichens | | na | 20% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia dealbata | **Common Name**  Silver Wattle |
| MS | Polyscias sambucifolia | Elderberry Panax |
| MS | Coprosma hirtella | Rough Coprosma |
| MS | Daviesia ulicifolia | Gorse Bitter-pea |
| MS | Olearia phlogopappa | Dusty Daisy-bush |
| SS | Leucopogon hookeri | Mountain Beard-heath |
| SS | Ozothamnus thyrsoideus | Sticky Everlasting |
| SS | Olearia megalophylla | Large-leaf Daisy-bush |
| SS | Olearia erubescens | Moth Daisy-bush |
| LH | Senecio linearifolius | Fireweed Groundsel |
| LH | Derwentia derwentiana | Derwent Speedwell |
| LH | Arthropodium milleflorum s.l. | Pale Vanilla-lily |
| MH | Lagenophora stipitata | Common Bottle-daisy |
| MH | Poranthera microphylla | Small Poranthera |
| MH | Stellaria pungens | Prickly Starwort |
| MH | Gonocarpus tetragynus | Common Raspwort |
| SH | Leptinella filicula | Mountain Cotula |
| SH | Oxalis exilis | Shady Wood-sorrel |
| LTG | Lomandra longifolia ssp. exilis | Cluster-headed Mat-rush |
| LTG | Deyeuxia quadriseta | Reed Bent-grass |
| MTG | Stylidium graminifolium s.l. | Grass Trigger-plant |
| MTG | Dianella tasmanica | Tasman Flax-lily |
| MTG | Luzula meridionalis var. flaccida | Common Woodrush |
| MTG | Deyeuxia monticola var. monticola | Mountain Bent-grass |
| MNG | Poa tenera | Slender Tussock-grass |
| GF | Pteridium esculentum | Austral Bracken |
| GF | Polystichum proliferum | Mother Shield-fern |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 201: Shrubby Wet Forest - Victorian Alps bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  50 % cover  **Logs:**  30 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low  MH Prunella vulgaris Self-heal 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**

Victorian Alps bioregion

EVC 206: Sub-alpine Grassland

##### Description:

Occurs primarily in areas at altitudes of around 1200 m above sea level. Structurally and floristically this EVC is dominated by grasses. Any shrubs present tend to be small and cryptic. The fertile and highly organic soils which are generally derived from granodiorite provide a suitable substrate for a lush cover of grasses and herbs, many specific to montane/sub-alpine environments. Snow persists for several months over winter. Species richness is low, indicative of the harsh environment.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** Medium Shrub | **#Spp**  1 | **%Cover**  5% | **LF code**  MS |
| Small Shrub | 3 | 5% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 11 | 20% | MH |
| Small or Prostrate Herb | 3 | 10% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 5 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 10% | MNG |
| Bryophytes/Lichens | na | 20% | BL |
| Soil Crust | na | 10% | S/C |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Baeckea gunniana | **Common Name**  Alpine Baeckea |
| SS | Grevillea australis | Alpine Grevillea |
| SS | Leucopogon hookeri | Mountain Beard-heath |
| SS | Hovea montana | Alpine Rusty-pods |
| PS | Pimelea alpina | Alpine Rice-flower |
| MH | Asperula gunnii | Mountain Woodruff |
| MH | Celmisia asteliifolia spp. agg. | Silver Daisy |
| MH | Leptorhynchos squamatus | Scaly Buttons |
| MH | Craspedia glauca spp. agg. | Common Billy-buttons |
| SH | Scleranthus biflorus s.l. | Twin-flower Knawel |
| SH | Gonocarpus micranthus ssp. micranthus | Creeping Raspwort |
| SH | Cotula alpina | Alpine Cotula |
| MTG | Carex breviculmis | Common Grass-sedge |
| MTG | Poa fawcettiae | Horny Snow-grass |
| MTG | Stylidium graminifolium s.l. | Grass Trigger-plant |
| MTG | Poa costiniana | Bog Snow-grass |
| MNG | Empodisma minus | Spreading Rope-rush |

##### Recruitment:

Continuous

##### Organic Litter:

10% Cover

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Weediness:** |  | | | |
| **LF Code** | **Typical Weed Species** | **Common Name** | **Invasive** | **Impact** |
| MH  MH SH | Acetosella vulgaris  Hypochoeris radicata Trifolium repens var. repens | Sheep Sorrel  Cat's Ear White Clover | high  high high | high  low high |

Ecological Vegetation Class bioregion benchmark

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| --- | --- |
| EVC 206: Sub-alpine Grassland - Victorian Alps bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Victorian Alps bioregion

EVC 210: Sub-alpine Wet Heathland

##### Description:

Virtually treeless and characterised by a dense layer of low heathy shrubs to 2 m tall, with a number of sedges and rushes in the understorey. Occurs at elevations above 1000 m, in soaks or along small streams. Rainfall is generally greater than 1000 mm per annum, and during winter, this EVC can tolerate long periods of snow cover and low temperature. Deep, peaty, sodden soils are usually covered by a layer of sphagnum moss.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** Medium Shrub | **#Spp**  4 | **%Cover**  15% | **LF code**  MS |
| Small Shrub | 3 | 10% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 8 | 15% | MH |
| Small or Prostrate Herb | 4 | 10% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 4 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 15% | MNG |
| Ground Fern | 1 | 1% | GF |
| Bryophytes/Lichens | na | 40% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Epacris paludosa | **Common Name**  Swamp Heath |
| MS | Baeckea gunniana | Alpine Baeckea |
| MS | Callistemon pityoides | Alpine Bottlebrush |
| MS | Baeckea utilis s.l. | Mountain Baeckea |
| SS | Richea continentis | Candle Heath |
| SS | Olearia algida | Mountain Daisy-bush |
| LH | Epilobium gunnianum | Gunn's Willow-herb |
| MH | Astelia alpina var. novae-hollandiae | Silver Astelia |
| MH | Gentianella diemensis s.l. | Mountain Gentian |
| MH | Asperula gunnii | Mountain Woodruff |
| MH | Celmisia asteliifolia spp. agg. | Silver Daisy |
| SH | Nertera granadensis | Matted Nertera |
| SH | Oreobolus distichus | Fan Tuft-rush |
| SH | Gonocarpus micranthus ssp. micranthus | Creeping Raspwort |
| LTG | Carex appressa | Tall Sedge |
| MTG | Stylidium graminifolium s.l. | Grass Trigger-plant |
| MTG | Carpha nivicola | Broad-leaf Flower-rush |
| MTG | Isolepis aucklandica | New Zealand Club-sedge |
| MTG | Poa hiemata | Soft Snow-grass |
| MNG | Empodisma minus | Spreading Rope-rush |
| GF | Lycopodium fastigiatum | Mountain Clubmoss |
| GF | Blechnum penna-marina ssp. alpina | Alpine Water-fern |

##### Recruitment:

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

##### Organic Litter:

10% cover

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Weediness:** |  | | | |
| **LF Code**  MH | **Typical Weed Species**  Hypochoeris radicata | **Common Name**  Cat's Ear | **Invasive**  high | **Impact**  low |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 210: Sub-alpine Wet Heathland - Victorian Alps bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Victorian Alps bioregion

EVC 316: Shrubby Damp Forest

##### Description:

Grows in gullies and on protected slopes on relatively skeletal but fertile sedimentary soils. Occurs at elevations of around 500 m above sea level and receives a low to moderate annual rainfall of approximately 750 mm. The overstorey includes a variety of Eucalypt species to 25 m tall. Silver Wattle is a common understorey tree. The dense mid stratum is comprised of

medium to large shrubs characteristic of both drier and damper environments. The ground layer has a sparse cover of grasses and herbs, and commonly includes Austral Bracken.

|  |  |  |
| --- | --- | --- |
| **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 | 4 | 20% | T |
| Medium Shrub | 8 | 20% | MS |
| Small Shrub | 2 | 10% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 4 | 5% | LH |
| Medium Herb | 8 | 15% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Large Non-tufted Graminoid | 1 | 1% | LNG |
| Medium to Small Tufted Graminoid | 3 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 5% | MNG |
| Ground Fern | 2 | 15% | GF |
| Tree Fern | 1 | 1% | TRF |
| Scrambler or Climber | 2 | 5% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 316: Shrubby Damp Forest - Victorian Alps bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Pomaderris aspera Hazel Pomaderris  T Acacia dealbata Silver Wattle  T Exocarpos cupressiformis Cherry Ballart  MS Cassinia longifolia Shiny Cassinia  MS Pimelea axiflora Bootlace Bush  MS Coprosma quadrifida Prickly Currant-bush  MS Olearia lirata Snowy Daisy-bush  SS Olearia megalophylla Large-leaf Daisy-bush  LH Senecio linearifolius Fireweed Groundsel  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Gonocarpus tetragynus Common Raspwort  MH Lagenophora stipitata Common Bottle-daisy  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Gahnia sieberiana Red-fruit Saw-sedge  MTG Dianella tasmanica Tasman Flax-lily  MTG Poa australis spp. agg. Tussock Grass  MTG Dianella revoluta s.l. Black-anther Flax-lily  MTG Austrodanthonia pilosa Velvet Wallaby-grass  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Pteridium esculentum Austral Bracken  GF Polystichum proliferum Mother Shield-fern  GF Blechnum wattsii Hard Water-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**  MH Hypochoeris radicata Cat's Ear high low MH Cerastium glomeratum s.l. Common Mouse-ear Chickweed 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**

Victorian Alps bioregion

EVC 319: Montane Herb-rich Woodland

##### Description:

Occurs on southern and eastern-facing slopes or in protected gullies at elevations of around 1000 m above sea level, and receives a high rainfall of almost 1110 mm per annum. It is subject to cold air drainage, which influences the species mix. A mixture of eucalypts to 25 m tall forms the overstorey, with Silver Wattle abundant below. The shrub layer is neither diverse nor dense. The ground layer carries a diversity of herbs, graminoids and grasses. Climbers are commonly present.

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

##### Tree Canopy Cover:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 6 | 15% | MS |
| Small Shrub | 2 | 5% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 5 | 10% | LH |
| Medium Herb | 12 | 20% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 8 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Ground Fern | 3 | 10% | GF |
| Scrambler or Climber | 2 | 5% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 319: Montane Herb-rich Woodland - Victorian Alps bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia dealbata Silver Wattle  T Notelaea ligustrina Privet Mock-olive  MS Coprosma hirtella Rough Coprosma  MS Pultenaea juniperina s.l. Prickly Bush-pea  MS Coprosma quadrifida Prickly Currant-bush  MS Exocarpos strictus Pale-fruit Ballart  SS Olearia erubescens Moth Daisy-bush  SS Leucopogon hookeri Mountain Beard-heath  SS Tetratheca ciliata Pink-bells  PS Platylobium formosum Handsome Flat-pea  LH Wahlenbergia stricta Tall Bluebell  LH Epilobium billardierianum Variable Willow-herb  LH Picris angustifolia Native Picris  LH Derwentia derwentiana Derwent Speedwell  MH Ranunculus plebeius s.l. Forest/Hairy Buttercup  MH Stellaria pungens Prickly Starwort  MH Asperula scoparia Prickly Woodruff  MH Acaena novae-zelandiae Bidgee-widgee  SH Hydrocotyle laxiflora Stinking Pennywort  SH Lobelia pedunculata s.l. Matted Pratia  SH Leptinella filicula Mountain Cotula  SH Oxalis exilis Shady Wood-sorrel  LTG Poa helmsii Tall Mountain Tussock-grass  LTG Lomandra longifolia Spiny-headed Mat-rush  MTG Poa sieberiana Grey Tussock-grass  MTG Carex breviculmis Common Grass-sedge  MTG Poa ensiformis Sword Tussock-grass  MTG Dianella tasmanica Tasman Flax-lily  MNG Echinopogon ovatus Common Hedgehog-grass  GF Pteridium esculentum Austral Bracken  GF Polystichum proliferum Mother Shield-fern  GF Asplenium flabellifolium Necklace Fern  SC Glycine clandestina Twining Glycine  SC Clematis aristata Mountain Clematis  **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low SH Trifolium repens var. repens White Clover 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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