

### EVC/Bioregion Benchmark for Vegetation Quality Assessment

Highlands – Far East bioregion

EVC 16: Lowland Forest

#### Description:

Eucalypt forest to 25 m tall on relatively fertile, moderately well-drained soils on ridges in areas of relatively high rainfall. Characterised by the diversity of life forms and species in the understorey including a range of shrubs, grasses and herbs.

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

#### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus sieberi  Eucalyptus globoidea Eucalyptus cypellocarpa Eucalyptus obliqua | Silvertop Ash  White Stringybark Mountain Grey-gum Messmate Stringybark |

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

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| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Goodenia ovata | **Common Name**  Hop Goodenia |
| MS | Acacia mucronata ssp. longifolia | Narrow-leaf Wattle |
| MS | Leucopogon lanceolatus var. lanceolatus | Lance Beard-heath |
| MS | Epacris impressa | Common Heath |
| SS | Tetratheca pilosa | Hairy Pink-bells |
| SS | Hibbertia empetrifolia s.l. | Tangled Guinea-flower |
| SS | Lomatia ilicifolia | Holly Lomatia |
| SS | Dampiera stricta | Blue Dampiera |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| MH | Gonocarpus teucrioides s.l. | Germander Raspwort |
| LTG | Lomandra longifolia | Spiny-headed Mat-rush |
| LNG | Gahnia radula | Thatch Saw-sedge |
| LNG | Tetrarrhena juncea | Forest Wire-grass |
| MTG | Dianella caerulea var. caerulea | Paroo Lily |
| MTG | Lepidosperma laterale | Variable Sword-sedge |
| MTG | Lomandra filiformis | Wattle Mat-rush |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| GF | Pteridium esculentum | Austral Bracken |
| GF | Blechnum cartilagineum | Gristle Fern |
| GF | Calochlaena dubia | Common Ground-fern |
| SC | Cassytha phaeolasia | Rusty Dodder-laurel |
| SC | Billardiera scandens | Common Apple-berry |
| SC | Tylophora barbata | Bearded Tylophora |
| SC | Clematis aristata | Mountain Clematis |

Ecological Vegetation Class bioregion benchmark

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| EVC 16: Lowland Forest Highlands – Far East bioregion | |
|  | **Recruitment:**  Continuous  **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 December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Highlands – Far East bioregion

EVC 18: Riparian Forest

#### Description:

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

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

#### Tree Canopy Cover:

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| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Eucalyptus elata  Eucalyptus viminalis Eucalyptus croajingolensis | River Peppermint  Manna Gum Gippsland Peppermint |

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| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 4 | 20% | T |
| Medium Shrub | 11 | 30% | MS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 9 | 10% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Tufted Graminoid | 3 | 5% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 6 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Ground Fern | 4 | 15% | GF |
| Tree Fern | 2 | 5% | TRF |
| Scrambler or Climber | 5 | 10% | SC |
| Bryophytes/Lichens | na | 10% | BL |

Ecological Vegetation Class bioregion benchmark

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| EVC 18: Riparian Forest Highlands – Far East bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Pomaderris aspera Hazel Pomaderris  T Acacia melanoxylon Blackwood  T Acacia dealbata Silver Wattle  T Hedycarya angustifolia Austral Mulberry  MS Coprosma quadrifida Prickly Currant-bush  MS Cassinia aculeata Common Cassinia  MS Cassinia longifolia Shiny Cassinia  MS Prostanthera lasianthos Victorian Christmas-bush  LH Senecio linearifolius Fireweed Groundsel  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Lagenophora stipitata Common Bottle-daisy  SH Poranthera microphylla Small Poranthera  LTG Lomandra longifolia Spiny-headed Mat-rush  LNG Tetrarrhena juncea Forest Wire-grass  MTG Dianella tasmanica Tasman Flax-lily  MTG Lepidosperma laterale Variable Sword-sedge  MTG Carex breviculmis Common Grass-sedge  MTG Dianella caerulea var. caerulea Paroo Lily  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Blechnum cartilageneum Gristle Fern  GF Blechnum nudum Fishbone Water-Fern  GF Adiantum aethiopicum Common Maidenhair  GF Polystichum proliferum Mother Shield-fern  TRF Cyathea australis Rough Tree-fern  TRF Dicksonia antarctica Soft Tree-fern  SC Clematis aristata Mountain Clematis  SC Smilax australis Austral Sarsaparilla  SC Glycine clandestina Twining Glycine  SC Eustrephus latifolius Wombat Berry  **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 Cirsium vulgare Spear Thistle high high  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 December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Highlands – Far East 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. 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.

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

#### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus cypellocarpa  Eucalyptus sieberi Eucalyptus globoidea | Mountain Grey-gum  Silvertop Ash White Stringybark |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 1 | 10% | T |
| Medium Shrub | 6 | 30% | MS |
| Small Shrub | 2 | 5% | SS |
| Medium Herb | 5 | 5% | MH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Large Non-tufted Graminoid | 2 | 5% | LNG |
| Medium to Small Tufted Graminoid | 3 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Ground Fern | 2 | 5% | GF |
| Scrambler or Climber | 3 | 5% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **80%** |  |

Ecological Vegetation Class bioregion benchmark

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| EVC 21: Shrubby Dry Forest Highlands - Far East bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  MS Leucopogon lanceolatus var. lanceolatus Lance Beard-heath  MS Platysace lanceolata Shrubby Platysace  MS Cassinia longifolia Shiny Cassinia  MS Daviesia ulicifolia Gorse Bitter-pea  SS Hibbertia empetrifolia s.l. Tangled Guinea-flower  SS Pimelea humilis Common Rice-flower  MH Gonocarpus teucrioides s.l. Germander Raspwort  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Hypericum gramineum Small St John's Wort  MH Poranthera microphylla Small Poranthera  LTG Lomandra longifolia Spiny-headed Mat-rush  LNG Gahnia radula Thatch Saw-sedge  LNG Tetrarrhena juncea Forest Wire-grass  MTG Poa sieberiana Grey Tussock-grass  MTG Dianella caerulea var. caerulea Paroo Lily  MTG Lepidosperma laterale Variable Sword-sedge  MTG Lomandra filiformis Wattle Mat-rush  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Pteridium esculentum Austral Bracken  SC Billardiera scandens Common Apple-berry  SC Glycine clandestina Twining Glycine  SC Tylophora barbata Bearded Tylophora  SC Clematis aristata Mountain Clematis  **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 20 years.  **Organic Litter:**  30 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  There are no consistent weeds in this EVC.  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Highlands – Far East bioregion

EVC 28: Rocky Outcrop Shrubland

#### Description:

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

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| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 10 | 50% | MS |
| Small Shrub | 3 | 15% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 3 | 5% | MH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 5 | 10% | MTG |
| Scrambler or Climber | 1 | 1% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Kunzea ambigua | **Common Name**  White Kunzea |
| MS | Pomaderris lanigera | Rusty Pomaderris |
| MS | Dodonaea viscosa | Sticky Hop-bush |
| MS | Correa reflexa | Common Correa |
| SS | Pultenaea retusa | Blunt Bush-pea |
| SS | Olearia iodochroa | Violet Daisy-bush |
| SS | Hibbertia obtusifolia | Grey Guinea-flower |
| PS | Pseudanthus divaricatissimus | Tangled Pseudanthus |
| LH | Senecio tenuiflorus | Slender Fireweed |
| LH | Derwentia perfoliata | Digger's Speedwell |
| MH | Gonocarpus tetragynus | Common Raspwort |
| LTG | Joycea pallida | Silvertop Wallaby-grass |
| MTG | Poa sieberiana | Grey Tussock-grass |
| MTG | Lepidosperma laterale | Variable Sword-sedge |
| MTG | Dichelachne rara | Common Plume-grass |
| MTG | Dianella revoluta s.l. | Black-anther Flax-lily |

#### Recruitment:

Continuous.

#### Organic Litter:

40 % cover

#### Logs:

10 m/0.1 ha.

#### Weediness:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **LF Code** | **Typical Weed Species** | **Common Name** | **Invasive** | **Impact** |
| MH  MTG | Hypochoeris radicata  Vulpia bromoides | Cat's Ear  Squirrel-tail Fescue | High  High | Low  Low |

Ecological Vegetation Class bioregion benchmark

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| --- | --- |
| EVC 28: Rocky Outcrop Shrubland Highlands – Far East bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Highlands – Far East 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 including occasional tree ferns.

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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 fastigata  Eucalyptus fraxinoides Eucalyptus cypellocarpa  Eucalyptus obliqua | Cut-tail  White Ash Mountain Grey-gum  Messmate Stringybark |

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

Ecological Vegetation Class bioregion benchmark

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| --- | --- |
| EVC 29: Damp Forest Highlands - Far East bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Elaeocarpus reticulatus Blue Oliveberry  T Acacia frigescens Frosted Wattle  MS Leucopogon lanceolatus var. lanceolatus Lance Beard-heath  MS Coprosma quadrifida Prickly Currant-bush  MS Polyscias sambucifolia Elderberry Panax  MS Cassinia longifolia Shiny Cassinia  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Poranthera microphylla Small Poranthera  MH Lagenophora stipitata Common Bottle-daisy  MH Gonocarpus teucrioides s.l. Germander Raspwort  LTG Lomandra longifolia Spiny-headed Mat-rush  LNG Tetrarrhena juncea Forest Wire-grass  MTG Hierochloe rariflora Cane Holy-grass  MTG Dianella tasmanica Tasman Flax-lily  MTG Dianella caerulea var. caerulea Paroo Lily  MTG Poa sieberiana Grey Tussock-grass  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Pteridium esculentum Austral Bracken  GF Blechnum cartilagineum Gristle Fern  GF Calochlaena dubia Common Ground-fern  TRF Cyathea australis Rough Tree-fern  SC Clematis aristata Mountain Clematis  SC Billardiera scandens Common Apple-berry  SC Tylophora barbata Bearded Tylophora  SC Smilax australis Austral Sarsaparilla  **Recruitment:**  Continuous  **Organic Litter:**  50% cover  **Logs:**  30 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low  Published by the Victorian Government Department of Sustainability and Environment December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Highlands – Far East 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 50 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.

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

#### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover**  40% | **Character Species**  Eucalyptus denticulata | **Common Name**  Errinundra Shining Gum |
|  | Eucalyptus fastigata | Cut-tail |
|  | Eucalyptus obliqua | Messmate Stringybark |
|  | Eucalyptus regnans | Mountain Ash |
|  | Eucalyptus viminalis | Manna Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 4 | 20% | T |
| Medium Shrub | 7 | 25% | MS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 5 | 15% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Large Non-tufted Graminoid | 1 | 1% | LNG |
| Medium to Small Tufted Graminoid | 3 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Ground Fern | 4 | 30% | GF |
| Tree Fern | 2 | 15% | TRF |
| Epiphyte | 1 | 1% | EP |
| Scrambler or Climber | 4 | 10% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

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| --- | --- |
| EVC 30: Wet Forest  Highlands - Far East bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia dealbata Silver Wattle  T Acacia melanoxylon Blackwood  T Acacia frigescens Frosted Wattle  T Olearia argophylla Musk Daisy-bush  MS Coprosma quadrifida Prickly Currant-bush  MS Polyscias sambucifolia Elderberry Panax  MS Pimelea axiflora Bootlace Bush  MS Tasmannia lanceolata Mountain Pepper  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Stellaria flaccida Forest Starwort  MH Geranium potentilloides Cinquefoil Cranesbill  MH Sambucus gaudichaudiana White Elderberry  LNG Tetrarrhena juncea Forest Wire-grass  MTG Dianella tasmanica Tasman Flax-lily  MTG Poa ensiformis Sword Tussock-grass  MTG Hierochloe rariflora Cane Holy-grass  GF Asplenium bulbiferum Mother Spleenwort  GF Polystichum proliferum Mother Shield-fern  GF Blechnum wattsii Hard Water-fern  GF Histiopteris incisa Bat's Wing Fern  TRF Dicksonia antarctica Soft Tree-fern  TRF Cyathea australis Rough Tree-fern  EP Fieldia australis Fieldia  SC Clematis aristata Mountain Clematis  SC Smilax australis Austral Sarsaparilla  SC Tylophora barbata Bearded Tylophora  **Recruitment:**  Continuous (excepting Mountain Ash)  **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 December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Highlands – Far East bioregion

EVC 31: Cool Temperate Rainforest

#### Description:

Closed non-eucalypt forest to 25 m tall. Occurs in high rainfall areas above 700 m in elevation and protected from fire within Wet Forest. The understorey is characterised by tree ferns and a rich epiphytic flora. The ground layer is dominated by a diversity of ground ferns.

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

#### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 50% | Elaeocarpus holopetalus  Atherosperma moschatum | Black Oliveberry  Southern Sassafras |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 2 | 20% | T |
| Medium Shrub | 2 | 5% | MS |
| Large Herb | 2 | 10% | LH |
| Medium Herb | 2 | 5% | MH |
| Ground Fern | 6 | 25% | GF |
| Tree Fern | 2 | 25% | TRF |
| Epiphyte | 2 | 5% | EP |
| Scrambler or Climber | 2 | 1% | SC |
| Bryophytes/Lichens | na | 20% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Telopea oreades | **Common Name**  Gippsland Waratah |
| T | Notelaea ligustrina | Privet Mock-olive |
| T | Pittosporum bicolor | Banyalla |
| MS | Coprosma quadrifida | Prickly Currant-bush |
| MS | Tasmannia lanceolata | Mountain Pepper |
| MS | Leucopogon maccraei | Subalpine Beard-heath |
| LH | Urtica incisa | Scrub Nettle |
| LH | Sambucus gaudichaudiana | White Elderberry |
| MH | Australina pusilla ssp. muelleri | Shade Nettle |
| MH | Stellaria flaccida | Forest Starwort |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| MTG | Dianella tasmanica | Tasman Flax-lily |
| MNG | Deyeuxia rodwayi | Tasman Bent-grass |
| GF | Polystichum proliferum | Mother Shield-fern |
| GF | Histiopteris incisa | Bat’s Wing Fern |
| GF | Grammitis billardierei | Common Finger-fern |
| GF | Asplenium bulbiferum ssp. gracillimum | Mother Spleenwort |
| TRF | Dicksonia antarctica | Soft Tree-fern |
| EP | Hymenophyllum flabellatum | Shiny Filmy Fern |
| EP | Fieldia australis | Fieldia |
| SC | Clematis aristata | Mountain Clematis |
| SC | Parsonsia brownii | Twining Silkpod |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 31: Cool Temperate Rainforest Highlands - Far East 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 December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Highlands – Far East bioregion

EVC 32: Warm Temperate Rainforest

#### Description:

Closed forest to 20m tall occurring along sheltered gullies at elevations below 700 m. Dominated by a range of non-eucalypt canopy species above an understorey of smaller trees and shrubs and usually visually dominated by ferns and climbers.

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

#### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 50% | Acmena smithii | Lilly Pilly |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 5 | 25% | T |
| Medium Shrub | 6 | 15% | MS |
| Large Herb | 2 | 1% | LH |
| Medium Herb | 5 | 10% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Large Non-tufted Graminoid | 1 | 1% | LNG |
| Medium to Small Tufted Graminoid | 2 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Ground Fern | 8 | 25% | GF |
| Tree Fern | 2 | 20% | TRF |
| Epiphyte | 4 | 5% | EP |
| Scrambler or Climber | 9 | 20% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 32: Warm Temperate Rainforest Highlands - Far East bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Telopea oreades Gippsland Waratah  T Rapanea howittiana Muttonwood  T Pittosporum undulatum Sweet Pittosporum  T Bedfordia arborescens Blanket-leaf  MS Coprosma quadrifida Prickly Currant-bush  MS Hedycarya angustifolia Austral Mulberry  MS Notelaea venosa Large Mock-olive  MS Pimelea axiflora Bootlace Bush  LH Urtica incisa Scrub Nettle  LH Sigesbeckia orientalis ssp. orientalis Indian Weed  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Australina pusilla ssp. muelleri Shade Nettle  MH Stellaria flaccida Forest Starwort  MH Sambucus gaudichaudiana White Elderberry  SH Pyrrosia rupestris Rock Felt-fern  LTG Gahnia melanocarpa Black-fruit Saw-sedge  LNG Tetrarrhena juncea Forest Wire-grass  MTG Dianella tasmanica Tasman Flax-lily  MTG Luzula meridionalis Common Woodrush  GF Polystichum proliferum Mother Shield-fern  GF Blechnum patersonii ssp. patersonii Strap Water-fern  GF Lastreopsis acuminata Shiny Shield-fern  GF Blechnum cartilagineum Gristle Fern  TRF Dicksonia antarctica Soft Tree-fern  TRF Cyathea australis Rough Tree-fern  EP Fieldia australis Fieldia  EP Microsorum scandens Fragrant Fern  EP Crepidomanes venosum Veined Bristle-fern  EP Microsorum pustulatum ssp. pustulatum Kangaroo Fern  SC Smilax australis Austral Sarsaparilla  SC Eustrephus latifolius Wombat Berry  SC Marsdenia rostrata Milk Vine  SC Cissus hypoglauca Jungle Grape  **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 December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Highlands – Far East bioregion

EVC 33: Cool/Warm Temperate Rainforest Overlap

#### Description:

Closed forest to 20m tall restricted to deeply incised river valleys of moderate gradient and associated steep gullies in rugged mountain country on a variety of southerly aspects at an elevation of 650 to 750 m. Dominated by a range of non-eucalypt canopy species above an understorey of smaller trees and shrubs and usually visually dominated by ferns and climbers.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species**  Acmena/Elaeocarpus/Atherosperma/Pomaderris | **DBH(cm)**  70 cm | **#/ha**  20 / ha |

#### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 50% | Acmena smithii  Atherosperma moschatum Elaeocarpus holopetalus Pomaderris aspera | Lilly Pilly  Southern Sassafras Black Oliveberry Hazel Pomaderris |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 5 | 25% | T |
| Medium Shrub | 6 | 15% | MS |
| Large Herb | 2 | 1% | LH |
| Medium Herb | 3 | 5% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Tufted Graminoid | 2 | 1% | LTG |
| Large Non-tufted Graminoid | 2 | 1% | LNG |
| Medium to Small Tufted Graminoid | 2 | 5% | MTG |
| Ground Fern | 8 | 25% | GF |
| Tree Fern | 3 | 20% | TRF |
| Epiphyte | 4 | 5% | EP |
| Scrambler or Climber | 7 | 20% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 33: Cool/Warm Temperate Rainforest Overlap Highlands - Far East bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia melanoxylon Blackwood  T v Eucryphia moorei Leatherwood  T Rapanea howittiana Muttonwood  T Pittosporum bicolor Banyalla  MS Coprosma quadrifida Prickly Currant-bush  MS Hedycarya angustifolia Austral Mulberry  MS Telopea oreodes Gippsland Waratah  MS Tasmannia lanceolata Mountain Pepper  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Australina pusilla ssp. muelleri Shade Nettle  GF Polystichum proliferum Mother Shield-fern  GF Blechnum patersonii ssp. patersonii Strap Water-fern  GF Lastreopsis acuminata Shiny Shield-fern  GF Blechnum cartilagineum Gristle Fern  TRF Dicksonia antarctica Soft Tree-fern  TRF Cyathea australis Rough Tree-fern  TRF Rr Cyathea cunninghamii Slender Tree-fern  TRF r Cyathea X marcescens Skirted Tree-fern  EP Fieldia australis Fieldia  EP Grammitis billardieri Common Finger-fern  EP Hymenophyllum australe Austral Filmy Fern  EP Microsorum scandens Fragrant Fern  EP Microsorum pustulatum ssp. pustulatum Kangaroo Fern  SC Smilax australis Austral Sarsaparilla  SC Eustrephus latifolius Wombat Berry  SC Marsdenia rostrata Milk Vine  SC Clematis aristata Mountain Clematis  **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 December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Highlands – Far East 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 croajingolensis  Eucalyptus dalrympleana Eucalyptus denticulata | Gippsland Peppermint  Mountain Gum Errinundra Shining Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | 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 |
| Scrambler/Climber | 1 | 1% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 35: Tableland Damp Forest Highlands - Far East bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Telopea oreades Gippsland Waratah  T Acacia melanoxylon Blackwood  MS Persoonia silvatica Forest Geebung  MS Tasmannia xerophila ssp. robusta Errinundra Pepper  MS Tasmannia lanceolata Mountain Pepper  MS Leucopogon maccraei Subalpine Beard-heath  SS Leucopogon hookeri Mountain Beard-heath  LH Senecio linearifolius Fireweed Groundsel  LH Brachyscome aculeata Branching Daisy  LH Drymophila cyanocarpa Turquoise Berry  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  SH Lobelia pedunculata s.l. Matted Pratia  LTG Deyeuxia quadriseta Reed Bent-grass  LNG Tetrarrhena juncea Forest Wire-grass  MTG Dianella tasmanica Tasman Flax-lily  MTG Dichelachne rara Common Plume-grass  MTG Luzula meridionalis var. flaccida Common Woodrush  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Pteridium esculentum Austral Bracken  GF Polystichum proliferum Mother Shield-fern  SC Clematis aristata Mountain Clematis  **Recruitment:**  Continuous  **Organic Litter:**  50 % cover  **Logs:**  30 m/0.1 ha.  **Weediness:**  There are no consistent weeds in this EVC.  Published by the Victorian Government Department of Sustainability and Environment December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Highlands – Far East bioregion

EVC 36: Montane Dry Woodland

#### Description:

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

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

#### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 20% | Eucalyptus pauciflora  Eucalyptus rubida | Snow Gum  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 Highlands - Far East 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 Pultenaea juniperina s.l. Prickly Bush-pea  MS Daviesia ulicifolia Gorse Bitter-pea  MS Monotoca scoparia Prickly Broom-heath  SS Olearia erubescens Moth Daisy-bush  SS Leucopogon hookeri Mountain Beard-heath  SS Platylobium formosum Handsome Flat-pea  SS Hibberttia obtusifolia Grey Guinea-flower  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 December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Highlands – Far East 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)**  60 cm | **#/ha**  15 / ha |

#### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 20% | Eucalyptus dives  Eucalyptus rubida | 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 | 2 | 10% | MS |
| Small Shrub | 3 | 5% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 8 | 20% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 5 | 25% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 5% | MNG |
| Ground Fern | 1 | 1% | GF |
| Scrambler or Climber | 1 | 1% | SC |
| 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 | Pultenaea juniperina s.l. | Prickly Bush-pea |
| MS | Epacris impressa | Common Heath |
| SS | Leucopogon hookeri | Mountain Beard-heath |
| SS | Tetratheca bauerifolia | Heath Pink-bells |
| SS | Hibbertia obtusifolia | Grey Guinea-flower |
| PS | Acrotriche serrulata | Honey-pots |
| LH | Wahlenbergia stricta | Tall Bluebell |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Hydrocotyle hirta | Hairy Pennywort |
| MH | Helichrysum scorpioides | Button Everlasting |
| SH | Hydrocotyle sibthorpioides | Shining Pennywort |
| SH | Chiloglottis gunnii s.l. | Common Bird-orchid |
| LTG | Lomandra longifolia | Spiny-headed Mat-rush |
| MTG | Stylidium graminifolium s.l. | Grass Trigger-plant |
| MTG | Luzula meridionalis var. meridionalis | Common Woodrush |
| MTG | Diplarrena moraea | White Iris |
| MTG | Poa sieberiana | Grey Tussock-grass |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| GF | Pteridium esculentum | Austral Bracken |
| SC | Clematis aristata | Mountain Clematis |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 37: Montane Grassy Woodland Highlands - Far East bioregion | |
|  | **Recruitment:**  Continuous.  **Organic Litter:**  20 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Cirsium vulgare Spear Thistle high high MH Hypochoeris radicata Cat's Ear high low  Published by the Victorian Government Department of Sustainability and Environment December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Highlands – Far East 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 croajingolensis Eucalyptus obliqua Eucalyptus radiata s.l. | Alpine Ash  Gippsland Peppermint Messmate  Narrow-leaf Peppermint |

|  |  |  |  |
| --- | --- | --- | --- |
| **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 |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 8 | 15% | MH |
| Small or Prostrate Herb | 2 | 5% | 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 | 10% | GF |
| Tree Fern | 1 | 1% | TRF |
| Scrambler or Climber | 1 | 5% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 38: Montane Damp Forest Highlands – Far East bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia dealbata Silver Wattle  T Acacia melanoxylon Blackwood  MS Coprosma hirtella Rough Coprosma  MS Cassinia aculeata Common Cassinia  MS Olearia phlogopappa Dusty Daisy-bush  MS Pimelea axiflora Bootlace Bush  SS Hibbertia obtusifolia Grey Guinea-flower  PS Persoonia chamaepeuce Dwarf Geebung  PS Platylobium formosum Handsome Flat-pea  PS Acrotriche serrulata Honey-pots  LH Sambucus gaudichaudiana White Elderberry  LH Derwentia perfoliata Digger's Speedwell  LH Senecio hispidulus Rough Fireweed  LH Derwentia derwentiana Derwent Speedwell  MH Acaena novae-zelandiae Bidgee-widgee  MH Stellaria flaccida Forest Starwort  MH Ranunculus scapiger Hairy Buttercup  SH Leptinella filicula Mountain Cotula  SH Lobelia pedunculata s.l. Matted Pratia  SH Hydrocotyle laxiflora Stinking Pennywort  SH Scleranthus biflorus s.l. Twin-flower Knawel  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Poa helmsii Tall Tussock-grass  MTG Poa ensiformis Sword Tussock-grass  MTG Dichelachne crinita Long-hair Plume-grass  MTG Dianella tasmanica Tasman Flax-lily  MTG Austrodanthonia racemosa var. racemosa Stiped Wallaby-grass  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Polystichum proliferum Mother Shield-fern  GF Pteridium esculentum Austral Bracken  GF Asplenium flabellifolium Necklace Fern  TRF Dicksonia antarctica Soft Tree-fern  SC Clematis aristata Mountain Clematis  SC Rubus parvifolius Small-leaf Bramble  SC Hardenbergia violacea Purple Coral-pea  **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 Taraxacum officinale spp. agg. Garden Dandelion high low LNG Holcus lanatus Yorkshire Fog high high  Published by the Victorian Government Department of Sustainability and Environment December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Highlands – Far East 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 delegatensis ssp. delegatensis | Alpine Ash |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 5 | 30% | T |
| Medium Shrub | 5 | 25% | MS |
| Small Shrub | 1 | 1% | SS |
| Medium Herb | 3 | 5% | MH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Large Non-tufted Graminoid | 1 | 1% | LNG |
| Medium to Small Tufted Graminoid | 2 | 10% | MTG |
| Ground Fern | 4 | 30% | GF |
| Tree Fern | 2 | 10% | TRF |
| Scrambler or Climber | 1 | 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 | Acacia frigescens | Frosted Wattle |
| T | Telopea oreades | Gippsland Waratah |
| T | Elaeocarpus holopetalus | Black Oliveberry |
| MS | Polyscias sambucifolia | Elderberry Panax |
| MS | Prostanthera lasianthos | Victorian Christmas-bush |
| MS | Tasmannia lanceolata | Mountain Pepper |
| MS | Coprosma hirtella | Rough Coprosma |
| MH | Stellaria flaccida | Forest Starwort |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| MH | Sambucus gaudichaudiana | White Elderberry |
| LTG | Gahnia sieberiana | Red-fruit Saw-sedge |
| LNG | Tetrarrhena juncea | Forest Wire-grass |
| MTG | Dianella tasmanica | Tasman Flax-lily |
| MTG | Poa ensiformis | Sword Tussock-grass |
| MTG | Hierochloe rariflora | Cane Holy-grass |
| GF | Polystichum proliferum | Mother Shield-fern |
| GF | Blechnum wattsii | Hard Water-fern |
| GF | Histiopteris incisa | Bat's Wing Fern |
| GF | Pteridium esculentum | Austral Bracken |
| TRF | Dicksonia antarctica | Soft Tree-fern |
| SC | Clematis aristata | Mountain Clematis |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 39: Montane Wet Forest Highlands – Far East 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 December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Highlands – Far East 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.

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| **Large trees:** |  | |
| **Species**  Eucalyptus spp. | **DBH(cm)**  60 cm | **#/ha**  15 / 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 | 10% | 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 Highlands - Far East 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 Rubus parvifolius Small-leaf Bramble  SS Epacris microphylla s.l. Coral Heath  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 Scleranthus biflorus s.l. Twin-flower Knawel  LTG Deyeuxia quadriseta Reed Bent-grass  LTG Carex appressa Tall 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 Poa labillardierei Common Tussock-grass  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 low 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 December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Highlands – Far East 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 | Mountain Tea-tree |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 3 | 5% | MS |
| Small or Prostrate Herb | 2 | 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 |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Gaultheria appressa | **Common Name**  Wax-berry |
| MS | Olearia phlogopappa | Dusty Daisy-bush |
| MS | Tasmannia lanceolata | Mountain Pepper |
| SH | Chiloglottis gunnii s.l. | Common Bird-orchid |
| SH | Chiloglottis cornuta | Green Bird-orchid |
| PH | Leptinella filicula | Mountain Cotula |
| LTG | Gahnia sieberiana | Red-fruit Saw-sedge |
| LTG | Juncus usitatus | Billabong Rush |
| LTG | Carex appressa | Tall Sedge |
| MTG | Isolepis subtilissima | Mountain Club-sedge |
| MTG | Dianella tasmanica | Tasman Flax-lily |
| 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 Highlands - Far East bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Highlands – Far East bioregion

EVC 47: Valley Grassy Forest

#### Description:

Valley Grassy Forest occurs under moderate rainfall regimes of 700-800 mm per annum on fertile well-drained colluvial or alluvial soils on gently undulating lower slopes and valley floors. Open forest to 25 m tall may carry a variety of eucalypts, usually species which prefer more moist or more fertile conditions over a sparse shrub cover. In season, a rich array of herbs, lilies, grasses and sedges dominate the ground layer but at the drier end of the spectrum the ground layer may be sparse and slightly less diverse, but with the moisture-loving species still remaining.

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

#### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 20% | Eucalyptus elata  Eucalyptus viminalis Eucalyptus globoidea | River Peppermint  Manna Gum White Stringybark |

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 47: Valley Grassy Forest Highlands - Far East bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia melanoxylon Blackwood  T Acacia mearnsii Black Wattle  MS Kunzea ericoides Burgan  MS Exocarpos strictus Pale-fruit Ballart  MS Pultenaea juniperina s.l. Prickly Bush-pea  MS Coprosma quadrifida Prickly Currant-bush  SS Hibbertia obtusifolia Grey Guinea-flower  PS Astroloma humifusum Cranberry Heath  PS Acrotriche serrulata Honey-pots  LH Wahlenbergia gracilis s.l. Sprawling Bluebell  LH Senecio tenuiflorus Slender Fireweed  LH Acaena ovina Australian Sheep's Burr  LH Senecio linearifolius Fireweed Groundsel  MH Lagenophora stipitata Common Bottle-daisy  MH Gonocarpus tetragynus Common Raspwort  MH Hydrocotyle hirta Hairy Pennywort  MH Veronica calycina Hairy Speedwell  SH Dichondra repens Kidney-weed  SH Desmodium gunnii Southern Tick-trefoil  SH Cymbonotus preissianus Austral Bear's-ear  SH Leptostigma reptans Dwarf Nertera  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Austrostipa rudis Veined Spear-grass  MTG Lepidosperma laterale Variable Sword-sedge  MTG Dianella tasmanica Tasman Flax-lily  MTG Themeda triandra Kangaroo Grass  MTG Poa australis spp. agg. Tussock Grass  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Echinopogon ovatus Common Hedgehog-grass  GF Pteridium esculentum Austral Bracken  SC Glycine clandestina Twining Glycine  SC Clematis aristata Mountain Clematis  SC Billardiera scandens Common Apple-berry  **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 MS Prunus spp. Cherry Plum low high  MS Rosa rubiginosa Briar Rose low high  LH Cirsium vulgare Spear Thistle high high  MH Hypochoeris radicata Cat's Ear high low  MH Centaurium erythraea Common Centaury high low MH Gamochaeta purpurea s.l. Purple Cudweed high low LNG Holcus lanatus Yorkshire Fog high high  Published by the Victorian Government Department of Sustainability and Environment December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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