

### EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 3: Damp Sands Herb-rich Woodland

##### Description:

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

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

##### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 20% | Eucalyptus melliodora  Eucalyptus goniocalyx s.l. | Yellow Box  Bundy |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Exocarpos cupressiformis | **Common Name**  Cherry Ballart |
| T | Acacia mearnsii | Black Wattle |
| MS | Kunzea ericoides | Burgan |
| MS | Acacia paradoxa | Hedge Wattle |
| MS | Leptospermum continentale | Prickly Tea-tree |
| PS | Astroloma humifusum | Cranberry Heath |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Drosera peltata ssp. auriculata | Tall Sundew |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| MH | Geranium solanderi s.l. | Austral Cranesbill |
| SH | Dichondra repens | Kidney-weed |
| SH | Kennedia prostrata | Running Postman |
| SH | Opercularia varia | Variable Stinkweed |
| SH | Poranthera microphylla | Small Poranthera |
| MTG | Poa sieberiana | Grey Tussock-grass |
| MTG | Themeda triandra | Kangaroo Grass |
| MTG | Austrodanthonia penicillata | Slender Wallaby-grass |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| GF | Pteridium esculentum | Austral Bracken |
| SC | Clematis microphylla | Small-leaved Clematis |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 3: Damp Sands Herb-rich Woodland - East Gippsland Uplands bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MTG Briza maxima Large Quaking-grass high low MTG Anthoxanthum odoratum Sweet Vernal-grass high high MTG Ehrharta erecta var. erecta Panic Veldt-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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 6: Sand Heathland

##### Description:

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

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

##### Large trees+:

|  |  |  |
| --- | --- | --- |
| **Species** | **DBH(cm)** | **#/ha** |
| Eucalyptus spp.  Banksia serrata | 50 cm  40 cm | 15 / ha |

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

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 10% | Eucalyptus willisii  Eucalyptus obliqua Eucalyptus radiata s.l.  Banksia serrata | Jimmy’s Shining Peppermint  Messmate Stringybark Narrow-leaf Peppermint Saw Banksia |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Epacris impressa | **Common Name**  Common Heath |
| MS | Leptospermum myrsinoides | Heath Tea-tree |
| MS | Leptospermum continentale | Prickly Tea-tree |
| MS | Monotoca scoparia | Prickly Broom-heath |
| SS | Amperea xiphoclada var. xiphoclada | Broom Spurge |
| SS | Leucopogon virgatus | Common Beard-heath |
| SS | Dillwynia glaberrima | Smooth Parrot-pea |
| LTG | Gahnia sieberiana | Red-fruit Saw-sedge |
| MNG | Hypolaena fastigiata | Tassel Rope-rush |
| SC | Cassytha glabella | Slender Dodder-laurel |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 6: Sand Heathland – East Gippsland Uplands bioregion | |
|  | **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 20 years.  **Organic Litter:**  40 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  There are no consistent weeds in this EVC.  Published by the Victorian Government Department of Sustainability and Environment December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

**[www.dse.vic.gov.au](http://www.dse.vic.gov.au/)**



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

East Gippsland Uplands bioregion

EVC 7: Clay Heathland

##### Description:

Occurs on sites with impeded drainage, often on duplex soils. Dominated by heathy shrub species with or without a eucalypt overstorey. The ground layer is dense and diverse with a variety of landforms.

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

##### Large trees+:

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

**Tree Canopy Cover+:**

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 10% | Eucalyptus conspicua | Swamp Stringybark |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Epacris impressa | **Common Name**  Common Heath |
| MS | Leptospermum continentale | Prickly Tea-tree |
| MS | Hakea sericea s.l. | Bushy Needlewood |
| MS | Cassinia longifolia | Shiny Cassinia |
| SS | Dampiera stricta | Blue Dampiera |
| SS | Pimelea humilis | Common Rice-flower |
| SS | Gompholobium huegelii | Common Wedge-pea |
| SS | Rhytidosporum procumbens | White Marianth |
| PS | Acrotriche serrulata | Honey-pots |
| PS | Bossiaea prostrata | Creeping Bossiaea |
| MH | Lagenophora gracilis | Slender Bottle-daisy |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Hypericum gramineum | Small St John's Wort |
| SH | Mitrasacme serpyllifolia | Thyme Mitrewort |
| LTG | Deyeuxia quadriseta | Reed Bent-grass |
| LTG | Lomandra longifolia | Spiny-headed Mat-rush |
| LTG | Xanthorrhoea minor ssp. lutea | Small Grass-tree |
| LNG | Gahnia radula | Thatch Saw-sedge |
| MTG | Schoenus apogon | Common Bog-sedge |
| MTG | Poa sieberiana | Grey Tussock-grass |
| MTG | Lepidosperma laterale | Variable Sword-sedge |
| MTG | Poa sieberiana var. sieberiana | Grey Tussock-grass |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| MNG | Caustis flexuosa | Curly Wig |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 7: Clay Heathland - East Gippsland Uplands bioregion | |
|  | **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 30 years.  **Organic Litter:**  20% Cover  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low  Published by the Victorian Government Department of Sustainability and Environment 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 8: Wet Heathland

##### Description:

A low, generally treeless heathland although sometimes emergent eucalypts may be present. Occurs on lower slopes, flats or depressions, which are infertile and subjected to prolonged water logging. Understorey is often dominated by a range of sedges, grasses and shrubs.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 7 | 30% | MS |
| Small Shrub | 3 | 5% | SS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 4 | 5% | MH |
| Large Tufted Graminoid | 2 | 10% | LTG |
| Large Non-tufted Graminoid | 3 | 10% | LNG |
| Medium to Small Tufted Graminoid | 4 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 10% | MNG |
| Ground Fern | 1 | 1% | GF |
| Scrambler or Climber | 2 | 10% | SC |
| Bryophytes/Lichens | na | 20% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Leptospermum continentale | **Common Name**  Prickly Tea-tree |
| MS | Hakea nodosa | Yellow Hakea |
| MS | Melaleuca squarrosa | Scented Paperbark |
| MS | Allocasuarina paludosa | Scrub Sheoak |
| SS | Bauera rubioides | Wiry Bauera |
| PS | Xanthosia dissecta s.l. | Cut-leaf Xanthosia |
| LH | Xyris operculata | Tall Yellow-eye |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Selaginella uliginosa | Swamp Selaginella |
| LTG | Gahnia sieberiana | Red-fruit Saw-sedge |
| LTG | Deyeuxia quadriseta | Reed Bent-grass |
| LNG | Gahnia radula | Thatch Saw-sedge |
| LNG | Tetrarrhena juncea | Forest Wire-grass |
| LNG | Baumea rubiginosa s.l. | Soft Twig-rush |
| MTG | Lepidosperma filiforme | Common Rapier-sedge |
| MTG | Tetraria capillaris | Hair Sedge |
| MTG | Patersonia fragilis | Short Purple-flag |
| MNG | Empodisma minus | Spreading Rope-rush |
| MNG | Baumea tetragona | Square Twig-sedge |
| MNG | Poa tenera | Slender Tussock-grass |
| GF | Lindsaea linearis | Screw Fern |
| SC | Gleichenia dicarpa | Pouched Coral-fern |
| SC | Cassytha glabella | Slender Dodder-laurel |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 8: Wet Heathland - East Gippsland Uplands bioregion | |
|  | **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 30 years.  **Organic Litter:**  20% cover  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low  Published by the Victorian Government Department of Sustainability and Environment 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 14: Banksia Woodland

##### Description:

Open scrub to open woodland to 10 m tall on well-drained Quaternary and Tertiary sandy soils. The overstorey is dominated by Saw Banksia Banksia serrata, sometimes with emergent eucalypts while the understorey is shrub-rich.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species**  Banksia serrata | **DBH(cm)**  50 cm | **#/ha**  15 / ha |

##### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Banksia serrata | Saw Banksia |

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 14: Banksia Woodland - East Gippsland Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  MS Epacris impressa Common Heath  MS Leptospermum continentale Prickly Tea-tree  MS Acacia terminalis Sunshine Wattle  MS Acacia suaveolens Sweet Wattle  SS Dampiera stricta Blue Dampiera  SS Amperea xiphoclada var. xiphoclada Broom Spurge  SS Tetratheca pilosa Hairy Pink-bells  SS Dillwynia glaberrima Smooth Parrot-pea  MH Gonocarpus teucrioides s.l. Germander Raspwort  MH Selaginella uliginosa Swamp Selaginella  MH Drosera peltata ssp. auriculata Tall Sundew  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Xanthorrhoea resinosa Spear Grass-tree  LTG Gahnia clarkei Tall Saw-sedge  LNG Tetrarrhena juncea Forest Wire-grass  MTG Dianella caerulea var. caerulea Paroo Lily  MTG Patersonia glabrata Leafy Purple-flag  MTG Lepidosperma laterale Variable Sword-sedge  MTG Burchardia umbellata Milkmaids  MNG Empodisma minus Spreading Rope-rush  GF Pteridium esculentum Austral Bracken  GF Lindsaea linearis Screw Fern  SC Cassytha glabella Slender Dodder-laurel  SC Cassytha phaeolasia Rusty Dodder-laurel  SC Billardiera scandens Common Apple-berry  **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 30 years.  **Organic Litter:**  40 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  There are no consistent weeds in this EVC.  Published by the Victorian Government Department of Sustainability and Environment December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

**[www.dse.vic.gov.au](http://www.dse.vic.gov.au/)**



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

East Gippsland Uplands bioregion

EVC 15: Limestone Box Forest

##### Description:

Occurs on generally well developed terra rossa soils derived from Tertiary limestones that outcrop around coastal streams, gullies and lakes. Open eucalypt forest to 20 m tall with a tall shrub layer understorey and a grass and herb-rich ground layer on sheltered aspects but may be almost completely bare on drier aspects.

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

##### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus botryoides  Eucalyptus baueriana Eucalyptus bosistoana  Eucalyptus tricarpa | Southern Mahogany  Blue Box  Coast Grey-box Red Ironbark |

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 15: Limestone Box Forest - East Gippsland Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Rapanea howittiana Mutton-wood  T Pomaderris aspera Hazel Pomaderris  MS Olearia lirata Snowy Daisy-bush  MS Coprosma quadrifida Prickly Currant-bush  MS Melaleuca ericifolia Swamp Paperbark  MS Cassinia longifolia Shiny Cassinia  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Solanum prinophyllum Forest Nightshade  MH Geranium potentilloides Cinquefoil Cranesbill  MH Veronica calycina Hairy Speedwell  SH Dichondra repens Kidney-weed  SH Oxalis corniculata s.l. Yellow Wood-sorrel  SH Desmodium gunnii Southern Tick-trefoil  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Gahnia melanocarpa Black-fruit Saw-sedge  LNG Gahnia radula Thatch Saw-sedge  MTG Lepidosperma laterale Variable Sword-sedge  MTG Schoenus apogon Common Bog-sedge  MTG Dianella caerulea var. caerulea Paroo Lily  MTG Dianella tasmanica Tasman Flax-lily  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Oplismenus hirtellus Australian Basket-grass  MNG Poa tenera Slender Tussock-grass  MNG Echinopogon ovatus Common Hedgehog-grass  GF Pteridium esculentum Austral Bracken  GF Calochlaena dubia Common Ground-fern  GF Pellaea falcata s.l. Sickle Fern  GF Adiantum aethiopicum Common Maidenhair  SC Tylophora barbata Bearded Tylophora  SC Eustrephus latifolius Wombat Berry  SC Glycine clandestina Twining Glycine  SC Clematis glycinoides var. glycinoides Forest Clematis  **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Cirsium vulgare Spear Thistle high high  MH Hypochoeris radicata Cat's Ear high low MH Cerastium glomeratum s.l. Common Mouse-ear Chickweed 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. |

**[www.dse.vic.gov.au](http://www.dse.vic.gov.au/)**



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

East Gippsland Uplands bioregion

EVC 16: Lowland Forest

##### Description:

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

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

##### Tree Canopy Cover:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **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 | 1 | 5% | GF |
| Scrambler or Climber | 3 | 5% | SC |
| Bryophytes/Lichens | na | 10% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 16: Lowland Forest - East Gippsland Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  MS Goodenia ovata 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  SC Cassytha phaeolasia Rusty Dodder-laurel  SC Billardiera scandens Common Apple-berry  SC Tylophora barbata Bearded Tylophora  SC Clematis aristata Mountain Clematis  **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 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 18: Riparian Forest

##### Description:

A tall forest along 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 tall eucalypts to 30 m tall, but also has an open to sparse secondary tree layer of wattles and scattered patches of shrubs, ferns, grasses and herbs.

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

##### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Eucalyptus globoidea  Eucalyptus viminalis Eucalyptus croajingolensis | White Stringybark  Manna Gum Gippsland Peppermint |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 4 | 15% | 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 | 1 | 5% | TRF |
| Scrambler or Climber | 5 | 10% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 18: Riparian Forest - East Gippsland Uplands 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  MS Coprosma quadrifida Prickly Currant-bush  MS Cassinia aculeata Common Cassinia  MS Cassinia longifolia Shiny Cassinia  MS Leucopogon lanceolatus var. lanceolatus Lance Beard-heath  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 Pteridium esculentum Austral Bracken  GF Blechnum cartilagineum Gristle Fern  GF Adiantum aethiopicum Common Maidenhair  GF Calochlaena dubia Common Ground-fern  TRF Cyathea australis Rough 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 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 19: Riparian Shrubland

##### Description:

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

##### Canopy Cover:

**%cover Character Species Common Name**

30% Acacia mearnsii Black Wattle

Acacia falciformis Large-leaf Hickory-wattle

Pomaderris aspera Hazel Pomaderris

##### Understorey:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Life form**  Medium Shrub | | | **#Spp**  6 | **%Cover**  25% | **LF code**  MS |
| Large Herb | | | 6 | 5% | LH |
| Medium Herb | | | 5 | 10% | MH |
| Small or Prostrate Herb | | | 3 | 5% | SH |
| Large Tufted Graminoid | | | 3 | 5% | LTG |
| Medium to Small Tufted Graminoid | | | 2 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | | | 2 | 1% | MNG |
| Ground Fern | | | 3 | 5% | GF |
| Scrambler or Climber | | | 2 | 1% | SC |
| Bryophytes/Lichens | | | na | 20% | BL |
| **Total understorey projective foliage cover** | | |  | **75%** |  |
| **LF Code** |  | **Species typical of at least part of EVC range** | | **Common Name** | |
| MS  MS MS MS SS LH LH LH MH MH MH SH SH SH SH LTG LTG LTG LTG LNG MTG MTG MTG MNG MNG MNG GF GF GF SC SC | r | Kunzea ericoides  Cassinia longifolia Philotheca myoporoides  Beyeria lasiocarpa Olearia iodochroa  Stypandra glauca Xerochrysum bracteatum Myriophyllum verrucosum  Solanum prinophyllum Veronica plebeia  Hydrocotyle hirta Oxalis corniculata s.l.  Dichondra repens Hydrocotyle sibthorpioides  Crassula sieberiana Lepidosperma urophorum  Lomandra longifolia Eragrostis parviflora  Cyperus lucidus  Schoenoplectus tabernaemontani Poa australis spp. agg.  Lomandra filiformis  Lachnagrostis filiformis Cyperus sphaeroideus  Eleocharis acuta  Luzula campestris spp. agg. Cheilanthes austrotenuifolia  Asplenium flabellifolium Pellaea falcata s.l.  Clematis microphylla Pandorea pandorana | | Burgan  Shiny Cassinia  Long-leaf Wax-flower Wallaby-bush  Violet Daisy-bush  Nodding Blue-lily Golden Everlasting Red Water-milfoil Forest Nightshade Trailing Speedwell Hairy Pennywort Yellow Wood-sorrel Kidney-weed Shining Pennywort Sieber Crassula Tailed Rapier-sedge  Spiny-headed Mat-rush Weeping Love-grass Leafy Flat-sedge  River Club-sedge Tussock Grass  Wattle Mat-rush  Common Blown-grass Globe Kyllinga  Common Spike-sedge  Field Woodrush Green Rock-fern Necklace Fern Sickle Fern  Small-leaved Clematis Wonga Vine | |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 19: Riparian Shrubland - East Gippsland Uplands bioregion | |
|  | **Recruitment:**  Episodic/flood – desirable period between flood events is 5 years.  **Organic Litter:**  20% 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 Rosa rubiginosa Sweet Briar low high MS Rubus fruticosus spp. agg. Blackberry high high  LH Conium maculatum Hemlock high high  LH Conyza bonariensis Flaxleaf Fleabane high low  LH Carduus tenuiflorus Winged Thistle high low  LH Sonchus asper s.l. Rough Sow-thistle high low  LH Plantago lanceolata Ribwort high low  LH Rumex crispus Curled Dock high low  MH Hypochoeris radicata Cat's Ear high low  MH Prunella vulgaris Self-heal high low MH Trifolium arvense var. arvense Hare's-foot Clover high low  MH Anagallis arvensis Pimpernel high low  MH Euphorbia peplus Petty Spurge high low  MH Silene gallica French Catchfly high low  MH Petrorhagia nanteuilii Childling Pink high low MH Gamochaeta purpurea s.l. Purple Cudweed high low  MH Centaurium erythraea Common Centaury high low  SH Modiola caroliniana Red-flower Mallow high low  LNG Holcus lanatus Yorkshire Fog high high  MTG Cyperus eragrostis Drain Flat-sedge high high  MTG Bromus catharticus Prairie Grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low MTG Bromus hordeaceus ssp. hordeaceus Soft Brome high low  MTG Bromus diandrus Great Brome high low  MNG Aira caryophyllea Silvery Hair-grass high low  SC Vinca major Blue Periwinkle 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 20: Heathy Dry Forest

##### Description:

Grows on shallow, rocky skeletal soils on a variety of geologies and on a range of landforms from gently undulating hills to exposed aspects on ridge tops and steep slopes at a range of elevations. The overstorey is a low, open eucalypt forest, 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.

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

##### Tree Canopy Cover:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 8 | 30% | MS |
| Small Shrub | 5 | 10% | SS |
| Prostrate Shrub | 2 | 5% | PS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 8 | 10% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 5 | 20% | MTG |
| Scrambler or Climber | 2 | 1% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **90%** |  |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 20: Heathy Dry Forest - East Gippsland Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia dealbata Silver Wattle  MS Monotoca scoparia Prickly Broom-heath  MS Cassinia longifolia Shiny Cassinia  MS Brachyloma daphnoides Daphne Heath  MS Choretrum pauciflorum Dwarf Sour-bush  SS Hibbertia obtusifolia Grey Guinea-flower  SS Tetratheca bauerifolia Heath Pink-bells  SS Acacia gunnii Ploughshare Wattle  SS Leucopogon virgatus Common Beard-heath  PS Platylobium formosum Handsome Flat-pea  PS Acrotriche serrulata Honey-pots  LH Wahlenbergia stricta Tall Bluebell  LH Senecio tenuiflorus Slender Fireweed  MH Gonocarpus tetragynus Common Raspwort  MH Poranthera microphylla Small Poranthera  MH Galium gaudichaudii Rough Bedstraw  MH Euchiton collinus s.s. Creeping Cudweed  MTG Joycea pallida Silvertop Wallaby-grass  MTG Poa sieberiana Grey Tussock-grass  MTG Dianella revoluta s.l. Black-anther Flax-lily  MTG Lomandra filiformis Wattle Mat-rush  EP Amyema pendula Drooping Mistletoe  SC Hardenbergia violacea Purple Coral-pea  **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 Centaurium erythraea Common Centaury high low  MH Hypochoeris radicata Cat's Ear high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 21: Shrubby Dry Forest

##### Description:

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

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

##### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus macrorhyncha  Eucalyptus consideniana Eucalyptus sieberi Eucalyptus globoidea | Red Stringybark  Yertchuk 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

|  |  |
| --- | --- |
| EVC 21: Shrubby Dry Forest - East Gippsland Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Allocasuarina littoralis Black Sheoak  MS Leucopogon lanceolatus var. lanceolatus Lance Beard-heath  MS Platysace lanceolata Shrubby Platysace  MS Cassinia longifolia Shiny Cassinia  MS Epacris impressa Common Heath  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 September 2005  © The State of Victoria Department of Sustainability and Environment 2005  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 22: Grassy Dry Forest

##### Description:

Occurs on a variety of gradients and altitudes and on a range of geologies. The overstorey is dominated by a low to medium height forest of eucalypts to 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**  Eucalyptus spp. | **DBH(cm)**  60 cm | **#/ha**  20 / ha |

##### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover**  30% | **Character Species**  Eucalyptus globulus ssp. pseudoglobulus | **Common Name**  Gippsland Blue Gum |
|  | Eucalyptus bridgesiana | But But |
|  | Eucalyptus consideniana | Yertchuk |
|  | Eucalyptus mannifera | Brittle Gum |
|  | Eucalyptus nortonii | Silver Bundy |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 1 | 10% | T |
| Medium Shrub | 7 | 20% | MS |
| Small Shrub | 3 | 5% | SS |
| Prostrate Shrub | 1 | 5% | PS |
| Large Herb | 3 | 1% | LH |
| Medium Herb | 11 | 20% | MH |
| Small or Prostrate Herb | 2 | 1% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 6 | 25% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Ground Fern | 2 | 5% | GF |
| Scrambler or Climber | 3 | 5% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 22: Grassy Dry Forest - East Gippsland Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia falciformis Large-leaf Hickory-wattle  MS Cassinia longifolia Shiny Cassinia  MS Pultenaea juniperina s.l. Prickly Bush-pea  MS Leucopogon lanceolatus var. lanceolatus Lance Beard-heath  MS Indigofera australis Austral Indigo  SS Hibbertia obtusifolia Grey Guinea-flower  PS Acrotriche serrulata Honey-pots  PS Astroloma humifusum Cranberry Heath  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Hypericum gramineum Small St John's Wort  MH Lagenophora stipitata Common Bottle-daisy  MH Gonocarpus tetragynus Common Raspwort  SH Hydrocotyle laxiflora Stinking Pennywort  SH Opercularia varia Variable Stinkweed  LTG Lomandra longifolia Spiny-headed Mat-rush  LNG Gahnia radula Thatch Saw-sedge  MTG Themeda triandra Kangaroo Grass  MTG Poa sieberiana Grey Tussock-grass  MTG Dianella revoluta s.l. Black-anther Flax-lily  MTG Lepidosperma laterale Variable Sword-sedge  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Pteridium esculentum Austral Bracken  SC Billardiera scandens Common Apple-berry  SC Clematis aristata Mountain Clematis  SC Glycine clandestina Twining Glycine  **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Cirsium vulgare Spear Thistle high high  LH Conyza albida Tall Fleabane high low  MH Hypochoeris radicata Cat's Ear high low  MH Centaurium erythraea Common Centaury high low  MNG Aira caryophyllea Silvery Hair-grass high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 23: Herb-rich Foothill Forest

##### Description:

Occurs on relatively fertile, moderately well-drained soils on an extremely wide range of geological types and in areas of moderate to high rainfall. Occupies easterly and southerly aspects mainly on lower slopes and in gullies. A medium to tall open forest or woodland to 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 rubida  Eucalyptus dives Eucalyptus radiata s.l. | Candlebark  Broad-leaved Peppermint Narrow-leaf Peppermint |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 4 | 10% | MS |
| Small Shrub | 3 | 5% | SS |
| Prostrate Shrub | 1 | 5% | PS |
| Large Herb | 4 | 5% | LH |
| Medium Herb | 13 | 20% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Large Tufted Graminoid | 2 | 1% | LTG |
| Medium to Small Tufted Graminoid | 7 | 30% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Ground Fern | 2 | 10% | GF |
| Scrambler or Climber | 2 | 5% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 23: Herb-rich Foothill Forest - East Gippsland Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia dealbata Silver Wattle  MS Cassinia longifolia Shiny Cassinia  MS Cassinia aculeata Common Cassinia  SS Hibbertia obtusifolia Grey Guinea-flower  SS Tetratheca bauerifolia Heath Pink-bells  PS Platylobium formosum Handsome Flat-pea  PS Acrotriche serrulata Honey-pots  LH Wahlenbergia stricta Tall Bluebell  LH Senecio quadridentatus Cotton Fireweed  MH Gonocarpus tetragynus Common Raspwort  MH Poranthera microphylla Small Poranthera  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  SH Hydrocotyle laxiflora Stinking Pennywort  SH Cymbonotus preissianus Austral Bear's-ear  SH Chiloglottis gunnii s.l. Common Bird-orchid  LTG Lomandra longifolia Spiny-headed Mat-rush  MTG Poa sieberiana Grey Tussock-grass  MTG Dichelachne sciurea spp. agg. Short-hair Plume-grass  MTG Lomandra filiformis Wattle Mat-rush  MTG Dianella tasmanica Tasman Flax-lily  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Pteridium esculentum Austral Bracken  SC Clematis aristata Mountain Clematis  SC Glycine clandestina Twining Glycine  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**  MS Rosa rubiginosa Sweet Briar low high  SS Rubus sp. aff. armeniacus Blackberry high high  LH Cirsium vulgare Spear Thistle high high  LH Sonchus asper s.l. Rough Sow-thistle high low  MH Hypochoeris radicata Cat's Ear high low MH Centaurium erythraea Common Centaury high low  MH Trifolium dubium Suckling Clover high low  MH Cerastium glomeratum s.l. Common Mouse-ear Chickweed high low MH Trifolium arvense var. arvense Hare's-foot Clover high low  MNG Aira caryophyllea Silvery Hair-grass high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 24: Foothill Box Ironbark Forest

##### Description:

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

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

##### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus tricarpa  Eucalyptus polyanthemos Eucalyptus muelleriana | Red Ironbark  Red Box  Yellow Stringybark |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 4 | 20% | MS |
| Large Herb | 2 | 1% | LH |
| Medium Herb | 2 | 1% | MH |
| Small or Prostrate Herb | 2 | 1% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 3 | 5% | MTG |
| Epiphyte | 1 | 1% | EP |
| Scrambler or Climber | 3 | 5% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **50%** |  |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 24: Foothill Box Ironbark Forest - East Gippsland Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Exocarpos cupressiformis Cherry Ballart  MS Cassinia longifolia Shiny Cassinia  MS Platysace lanceolata Shrubby Platysace  MS Olearia ramulosa Twiggy Daisy-bush  MS Polyscias sambucifolia Elderberry Panax  SS Rhytidosporum procumbens White Marianth  LH Stypandra glauca Nodding Blue-lily  LH Wahlenbergia gracilis s.l. Sprawling Bluebell  LH Senecio tenuiflorus Slender Fireweed  LH Helichrysum leucopsideum Satin Everlasting  MH Poranthera microphylla Small Poranthera  MH Veronica calycina Hairy Speedwell  MH Helichrysum scorpioides Button Everlasting  SH Opercularia varia Variable Stinkweed  SH Galium propinquum Maori Bedstraw  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Joycea pallida Silvertop Wallaby-grass  MTG Lepidosperma laterale Variable Sword-sedge  MTG Dianella revoluta s.l. Black-anther Flax-lily  MTG Dianella caerulea var. caerulea Paroo Lily  MTG Lepidosperma laterale var. laterale Variable Sword-sedge  EP Cassytha phaeolasia Rusty Dodder-laurel  SC Billardiera scandens Common Apple-berry  SC Pandorea pandorana Wonga Vine  SC Comesperma volubile Love Creeper  SC Hardenbergia violacea Purple Coral-pea  **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  There are no consistent weeds in this EVC.  Published by the Victorian Government Department of Sustainability and Environment 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. |

**[www.dse.vic.gov.au](http://www.dse.vic.gov.au/)**



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

East Gippsland Uplands bioregion

EVC 27: Blackthorn Scrub

##### Description:

Only found 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 tall shrub layer to 6 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  Exocarpos cupressiformis | Red Wattle  Cherry Ballart |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 8 | 40% | MS |
| Small Shrub | 1 | 1% | SS |
| Large Herb | 2 | 1% | LH |
| Medium Herb | 3 | 5% | MH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 3 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Ground Fern | 1 | 1% | GF |
| Scrambler or Climber | 3 | 5% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| **Total understorey projective foliage cover** |  | **50%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Philotheca trachyphylla | **Common Name**  Rock Wax-flower |
| MS | Cassinia longifolia | Shiny Cassinia |
| MS | Goodenia ovata | Hop Goodenia |
| MS | Platysace lanceolata | Shrubby Platysace |
| MH | Poranthera microphylla | Small Poranthera |
| MTG | Lepidosperma laterale | Variable Sword-sedge |
| MTG | Notodanthonia longifolia | Long-leaf Wallaby-grass |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| GF | Asplenium flabellifolium | Necklace Fern |
| SC | Pandorea pandorana | Wonga Vine |
| SC | Billardiera scandens | Common Apple-berry |

**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 - East Gippsland Uplands bioregion | |
|  | 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 28: Rocky Outcrop Shrubland

##### Description:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** Medium Shrub | **#Spp**  7 | **%Cover**  25% | **LF code**  MS |
| Small Shrub | 2 | 5% | 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 | 2 | 1% | SC |
| Bryophytes/Lichens | na | 20% | BL |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **85%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Cassinia longifolia | **Common Name**  Shiny Cassinia |
| MS | Exocarpos strictus | Pale-fruit Ballart |
| MS | Ozothmanus conditus | Pepper Everlasting |
| MS | Ozothamnus rogersianus | Nunniong Everlasting |
| SS | Olearia iodochroa | Violet Daisy-bush |
| SS | Hibbertia obtusifolia | Grey Guinea-flower |
| LH | Senecio tenuiflorus | Slender Fireweed |
| LH | Derwentia perfoliata | Digger's Speedwell |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MTG | Poa sieberiana | Grey Tussock-grass |
| MTG | Lepidosperma laterale | Variable Sword-sedge |
| MTG | Dianella tasmanica | Tasman Flax-lily |
| LTG | Joycea pallida | Silvertop Wallaby-grass |

##### Recruitment:

Continuous

##### Organic Litter:

40 % cover

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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

|  |  |
| --- | --- |
| EVC 28: Rocky Outcrop Shrubland - East Gippsland Uplands bioregion | |
|  | 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 29: Damp Forest

##### Description:

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

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

##### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Eucalyptus cypellocarpa  Eucalyptus obliqua Eucalyptus muelleriana | Mountain Grey-gum  Messmate Stringybark Yellow Stringybark |

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

|  |  |
| --- | --- |
| EVC 29: Damp Forest - East Gippsland Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Elaeocarpus reticulatus Blue Oliveberry  T Acacia melanoxylon Blackwood  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 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 30: Wet Forest

##### Description:

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

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

##### Tree Canopy Cover:

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

|  |  |
| --- | --- |
| EVC 30: Wet Forest - East Gippsland Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Olearia argophylla Musk Daisy-bush  T Bedfordia arborescens Blanket-leaf  T Telopea oreades Gippsland Waratah  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 Pteridium esculentum Austral Bracken  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 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 31: Cool Temperate Rainforest

##### Description:

Closed non-eucalypt forest to 25 m tall. Occurs in high rainfall areas protected from fire within Wet Forest. The understorey 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 | 15% | T |
| Medium Shrub | 4 | 10% | MS |
| Medium Herb | 3 | 10% | MH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 1 | 1% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| 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 |  | Pittosporum bicolor | Banyalla |
| MS |  | Tasmannia lanceolata | Mountain Pepper |
| MS |  | Coprosma quadrifida | Prickly Currant-bush |
| MS |  | Leucopogon maccraei | Subalpine Beard-heath |
| MH |  | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| MH |  | Australina pusilla ssp. muelleri | Shade Nettle |
| MH |  | Sambucus gaudichaudiana | White Elderberry |
| MH |  | Stellaria flaccida | Forest Starwort |
| MTG |  | Poa ensiformis | Sword Tussock-grass |
| MTG |  | Dianella tasmanica | Tasman Flax-lily |
| MTG | r | Uncinia nemoralis | River Hook-sedge |
| MTG |  | Libertia pulchella | Pretty Grass-flag |
| MNG |  | Uncinia tenella | Delicate Hook-sedge |
| GF |  | Grammitis billardierei | Common Finger-fern |
| GF |  | Blechnum wattsii | Hard Water-fern |
| GF |  | Polystichum proliferum | Mother Shield-fern |
| GF |  | Histiopteris incisa | Bat's Wing Fern |
| TRF |  | Dicksonia antarctica | Soft Tree-fern |
| TRF |  | Cyathea australis | Rough Tree-fern |
| EP |  | Crepidomanes venosum | Veined Bristle-fern |
| EP |  | Fieldia australis | Fieldia |
| EP |  | Hymenophyllum flabellatum | Shiny Filmy Fern |
| SC |  | Clematis aristata | Mountain Clematis |
| SC |  | Parsonsia brownii | Twining Silkpod |
| SC |  | Smilax australis | Austral Sarsaparilla |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 31: Cool Temperate Rainforest - East Gippsland Uplands 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 32: Warm Temperate Rainforest

##### Description:

Closed forest to 20m tall occurring along small streams. 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**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 5 | 30% | 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 | 10% | EP |
| Scrambler or Climber | 9 | 20% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 32: Warm Temperate Rainforest - East Gippsland Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Pomaderris aspera Hazel Pomaderris  T Bedfordia arborescens Blanket-leaf  T Olearia argophylla Musk Daisy-bush  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  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  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 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 34: Dry Rainforest

##### Description:

Open to closed non-eucalypt forest to 15 m tall. Occurs in areas of relatively low rainfall (750-900mm per annum) and primarily confined to topographic fire refuges most often associated with extensive cliffs, gorges and rock screes on northern and western aspects.

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

##### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Bedfordia arborescens  Pittosporum bicolor | Blanket-leaf  Banyalla |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Coprosma quadrifida | **Common Name**  Prickly Currant-bush |
| MS | Kunzea ericoides | Burgan |
| MS | Olearia phlogopappa | Dusty Daisy-bush |
| MS | Pimelea axiflora | Bootlace Bush |
| LH | Urtica incisa | Scrub Nettle |
| LH | Prasophyllum odoratum | Scented Leek-orchid |
| MH | Stellaria flaccida | Forest Starwort |
| MH | Sambucus gaudichaudiana | White Elderberry |
| MH | Stackhousia monogyna | Creamy Stackhousia |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| SH | Galium propinquum | Maori Bedstraw |
| LTG | Carex appressa | Tall Sedge |
| MTG | Poa ensiformis | Sword Tussock-grass |
| MNG | Uncinia tenella | Delicate Hook-sedge |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| GF | Polystichum proliferum | Mother Shield-fern |
| GF | Blechnum patersonii ssp. patersonii | Strap Water-fern |
| GF | Asplenium bulbiferum ssp. gracillimum | Mother Spleenwort |
| GF | Grammitis billardierei | Common Finger-fern |
| TRF | Dicksonia antarctica | Soft Tree-fern |
| TRF | Cyathea australis | Rough Tree-fern |
| EP | Crepidomanes venosum | Veined Bristle-fern |
| EP | Microsorum pustulatum ssp. pustulatum | Kangaroo Fern |
| SC | Clematis aristata | Mountain Clematis |
| SC | Smilax australis | Austral Sarsaparilla |
| SC | Parsonsia brownii | Twining Silkpod |
| SC | Eustrephus latifolius | Wombat Berry |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 34: Dry Rainforest - East Gippsland Uplands bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Logs:**  10 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Cirsium vulgare Spear Thistle 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands 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 – East Gippsland Uplands 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. |

**[www.dse.vic.gov.au](http://www.dse.vic.gov.au/)**



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

East Gippsland Uplands 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 dives Eucalyptus rubida Eucalyptus mannifera | Snow Gum  Broad-leaved Peppermint Candlebark  Brittle Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **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 – East Gippsland Uplands 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 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 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. |

**[www.dse.vic.gov.au](http://www.dse.vic.gov.au/)**



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

East Gippsland Uplands bioregion

EVC 37: Montane Grassy Woodland

##### Description:

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

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

##### Tree Canopy Cover:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 2 | 10% | MS |
| Small Shrub | 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 | 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 - East Gippsland Uplands bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Cirsium vulgare Spear Thistle high high MH Hypochoeris radicata Cat's Ear high low  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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands 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 rubida | Alpine Ash  Candlebark |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 3 | 20% | T |
| Medium Shrub | 7 | 25% | MS |
| Small Shrub | 4 | 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 - East Gippsland Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Eucalyptus dives Broad-leaved Peppermint  T Acacia dealbata Silver Wattle  T Acacia melanoxylon Blackwood  MS Lomatia myricoides River Lomatia  MS Persoonia confertiflora Cluster-flower Geebung  MS Cassinia longifolia Shiny Cassinia  MS Tasmannia xerophila Alpine Pepper  SS Olearia megalophylla Large-leaf Daisy-bush  SS k Leucopogon juniperinus Long-flower Beard-heath  SS Ozothamnus thyrsoideus Sticky Everlasting  SS Hibbertia obtusifolia Grey Guinea-flower  PS Persoonia chamaepeuce Dwarf Geebung  PS Platylobium formosum Handsome Flat-pea  PS Acrotriche serrulata Honey-pots  LH Derwentia perfoliata Digger's Speedwell  LH Senecio hispidulus Rough Fireweed  LH Derwentia derwentiana Derwent Speedwell  LH Wahlenbergia gracilis s.l. Sprawling Bluebell  MH Stellaria pungens Prickly Starwort  MH Ranunculus plebeius s.l. Forest/Hairy Buttercup  MH v Wahlenbergia densifolia Fairy Bluebell  SH Lobelia pedunculata s.l. Matted Pratia  SH Hydrocotyle laxiflora Stinking Pennywort  SH Scleranthus biflorus s.l. Twin-flower Knawel  SH Oxalis exilis Shady Wood-sorrel  LTG Lomandra longifolia Spiny-headed Mat-rush  MTG Dichelachne crinita Long-hair Plume-grass  MTG Dichelachne sciurea spp. agg. Short-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 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 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands 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**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  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 | 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 - East Gippsland Uplands 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 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands 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.

|  |  |  |
| --- | --- | --- |
| **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**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  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 - East Gippsland Uplands 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 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 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 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands 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** Medium Shrub | **#Spp**  3 | **%Cover**  5% | **LF code**  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 (note: large log class does not apply)

##### Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 41: Montane Riparian Thicket – East Gippsland Uplands bioregion | |
|  | 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands 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 Black Sallee Eucalyptus stellulata, 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 | Banksia canei | Mountain Banksia |
| SS | Baeckea ramosissima | Rosy Baeckea |
| SS | Leucopogon fraseri | Sharp Beard-heath |
| PS | Pimelea alpina | Alpine Rice-flower |
| PS | Persoonia chamaepeuce | Dwarf Geebung |
| LH | Brachyscome aculeata | Branching Daisy |
| LH | Senecio pinnatifolius | Variable Groundsel |
| LH | Senecio gunnii | Mountain Fireweed |
| LH | Trachymene composita | Parsnip Trachymene |
| 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 | 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 – East Gippsland Uplands 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands 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 | Pultenaea forsythiana | Prickly Bush-pea |
| MS | Daviesia ulicifolia | Gorse Bitter-pea |
| MS | Tasmannia xerophila | Alpine Pepper |
| SS | Leucopogon hookeri | Mountain Beard-heath |
| LH | Senecio gunnii | Mountain Fireweed |
| LH | Brachyscome aculeata | Branching Daisy |
| 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 – East Gippsland Uplands 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 45: Shrubby Foothill Forest

##### Description:

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

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

##### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Eucalyptus sieberi  Eucalyptus macrorhyncha | Silvertop Ash  Red Stringybark |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 9 | 30% | MS |
| Small Shrub | 5 | 15% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 5 | 5% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Large Non-tufted Graminoid | 1 | 1% | LNG |
| Medium to Small Tufted Graminoid | 4 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Ground Fern | 1 | 5% | GF |
| Scrambler or Climber | 2 | 1% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| **Total understorey projective foliage cover** |  | **70%** |  |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 45: Shrubby Foothill Forest - East Gippsland Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia falciformis Large-leaf Hickory-wattle  T Exocarpos cupressiformis Cherry Ballart  MS Persoonia confertiflora Cluster-flower Geebung  MS Cassinia longifolia Shiny Cassinia  MS Pultenaea juniperina s.l. Prickly Bush-pea  MS Acacia terminalis Sunshine Wattle  SS Hibbertia obtusifolia Grey Guinea-flower  SS Pimelea curviflora s.l. Curved Rice-flower  SS Dampiera stricta Blue Dampiera  SS Rhytidosporum procumbens White Marianth  LH Stypandra glauca Nodding Blue-lily  MH Gonocarpus teucrioides s.l. Germander Raspwort  MH Pomax umbellata Pomax  MH Gonocarpus tetragynus Common Raspwort  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  SH Opercularia ovata Broad-leaf Stinkweed  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 Poa sieberiana Grey Tussock-grass  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Pteridium esculentum Austral Bracken  SC Comesperma volubile Love Creeper  SC Billardiera scandens Common Apple-berry  SC Pandorea pandorana Wonga Vine  **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 30 years.  **Organic Litter:**  40 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 47: Valley Grassy Forest

##### Description:

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

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

##### Tree Canopy Cover:

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

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

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 82: Riverine Escarpment Scrub

##### Description:

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

##### Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Acacia melanoxylon  Pomaderris aspera Tristaniopsis laurina  Acacia mearnsii | Blackwood  Hazel Pomaderris Kanooka  Black Wattle |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Medium Shrub | 10 | 30% | MS |
| Small Shrub | 1 | 1% | SS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 9 | 15% | MH |
| Small or Prostrate Herb | 2 | 1% | SH |
| Large Tufted Graminoid | 2 | 1% | LTG |
| Medium to Small Tufted Graminoid | 4 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Ground Fern | 3 | 10% | GF |
| Scrambler or Climber | 2 | 5% | SC |
| Bryophytes/Lichens | na | 10 % | BL |
| **Total understorey projective foliage cover** |  | **75%** |  |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 82: Riverine Escarpment Scrub - East Gippsland Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  MS Lasiopetalum macrophyllum Shrubby Velvet-bush  MS Pimelea axiflora Bootlace Bush  MS Kunzea ericoides Burgan  MS Babingtonia pluriflora Tall Baeckea  SS k Leucopogon juniperinus Long-flower Beard-heath  SS Hibbertia obtusifolia Grey Guinea-flower  SS Rhytidosporum procumbens White Marianth  LH Urtica incisa Scrub Nettle  LH Senecio tenuiflorus Slender Fireweed  LH Stypandra glauca Nodding Blue-lily  MH Veronica plebeia Trailing Speedwell  MH Lagenophora stipitata Common Bottle-daisy  MH Solanum prinophyllum Forest Nightshade  MH Euchiton collinus s.s. Creeping Cudweed  SH Hydrocotyle tripartita Slender Pennywort  SH Galium propinquum Maori Bedstraw  SH Oxalis corniculata s.l. Yellow Wood-sorrel  SH Dichondra repens Kidney-weed  LTG Lomandra longifolia ssp. exilis Cluster-headed Mat-rush  LTG Deyeuxia quadriseta Reed Bent-grass  LNG Gahnia radula Thatch Saw-sedge  LNG Tetrarrhena juncea Forest Wire-grass  MTG Lepidosperma laterale Variable Sword-sedge  MTG Poa australis spp. agg. Tussock Grass  MTG Luzula meridionalis var. flaccida Common Woodrush  MTG Carex fascicularis Tassel Sedge  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Cheilanthes austrotenuifolia Green Rock-fern  GF Adiantum aethiopicum Common Maidenhair  GF Pteridium esculentum Austral Bracken  GF r Polystichum formosum Broad Shield-fern  EP Hymenophyllum cupressiforme Common Filmy Fern  SC Billardiera scandens Common Apple-berry  SC Pandorea pandorana Wonga Vine  **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Logs:**  5 m/0.1 ha. (note: large log class does not apply)  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Rubus fruticosus spp. agg. Blackberry high high LH Cirsium vulgare Spear Thistle high low MH Hypochoeris radicata Cat's Ear high low  MH Prunella vulgaris Self-heal high low  MH Euphorbia peplus Petty Spurge high low  LNG Holcus lanatus Yorkshire Fog high high  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 83: Swampy Riparian Woodland

##### Description:

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

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

##### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 20% | Eucalyptus camphora ssp. humeana | Mountain Swamp-gum |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Prostanthera lasianthos | **Common Name**  Victorian Christmas-bush |
| T | Acacia melanoxylon | Blackwood |
| MS | Leptospermum lanigerum | Woolly Tea-tree |
| MS | Leptospermum continentale | Prickly Tea-tree |
| MS | Coprosma quadrifida | Prickly Currant-bush |
| PS | Xanthosia dissecta s.l. | Cut-leaf Xanthosia |
| LH | Senecio minimus | Shrubby Fireweed |
| LH | Lycopus australis | Australian Gipsywort |
| MH | Gonocarpus tetragynus | Common Raspwort |
| LTG | Poa labillardierei | Common Tussock Grass |
| LTG | Lomandra longifolia | Spiny-headed Mat-rush |
| LTG | Juncus procerus | Tall Rush |
| LTG | Gahnia sieberiana | Red-fruit Saw-sedge |
| LNG | Baumea rubiginosa s.l. | Soft Twig-rush |
| LNG | Phragmites australis | Common Reed |
| MTG | Carex gaudichaudiana | Fen Sedge |
| MTG | Dianella revoluta s.s. | Black-anther Flax-lily |
| MTG | Lomandra filiformis | Wattle Mat-rush |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| SC | Billardiera scandens | Common Apple-berry |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 83: Swampy Riparian Woodland - East Gippsland Uplands bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low MH Centaurium erythraea Common Centaury high low  LNG Holcus lanatus Yorkshire Fog high high  MTG Anthoxanthum odoratum Sweet Vernal-grass high high MTG Briza maxima Large Quaking-grass high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 127: Valley Heathy Forest

##### Description:

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

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

##### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover**  30% | **Character Species**  Eucalyptus bridgesiana s.l. | **Common Name**  But But |
|  | Eucalyptus dives | Broad-leaved Peppermint |
|  | Eucalyptus consideniana | Yertchuk |
|  | Eucalyptus macrorhyncha | Red Stringybark |
|  | Eucalyptus mannifera | Brittle Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 5 | 20% | MS |
| Small Shrub | 5 | 10% | SS |
| Prostrate Shrub | 2 | 15% | PS |
| Large Herb | 1 | 5% | LH |
| Medium Herb | 12 | 15% | MH |
| Small or Prostrate Herb | 5 | 5% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 7 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 5% | MNG |
| Bryophytes/Lichens | na | 10% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia melanoxylon | **Common Name**  Blackwood |
| MS | Kunzea ericoides | Burgan |
| MS | Leptospermum continentale | Prickly Tea-tree |
| MS | Epacris impressa | Common Heath |
| MS | Pimelea linifolia | Slender Rice-flower |
| SS | Hovea heterophylla | Common Hovea |
| SS | Tetratheca bauerifolia | Heath Pink-bells |
| SS | Leucopogon virgatus | Common Beard-heath |
| SS | Podolobium procumbens | Trailing Podolobium |
| PS | Astroloma humifusum | Cranberry Heath |
| PS | Acrotriche serrulata | Honey-pots |
| LH | Senecio tenuiflorus | Slender Fireweed |
| MH | Hypericum gramineum | Small St John's Wort |
| MH | Viola betonicifolia ssp. betonicifolia | Showy Violet |
| MH | Veronica calycina | Hairy Speedwell |
| SH | Cymbonotus preissianus | Austral Bear's-ear |
| SH | Opercularia varia | Variable Stinkweed |
| SH | Dichondra repens | Kidney-weed |
| SH | Hydrocotyle laxiflora | Stinking Pennywort |
| LTG | Lomandra longifolia | Spiny-headed Mat-rush |
| MTG | Themeda triandra | Kangaroo Grass |
| MTG | Poa sieberiana var. sieberiana | Grey Tussock-grass |
| MTG | Lepidosperma laterale | Variable Sword-sedge |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 127: Valley Heathy Forest - East Gippsland Uplands bioregion | |
|  | **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 30 years.  **Organic Litter:**  40 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Rubus fruticosus spp. agg. Blackberry high high  LH Cirsium vulgare Spear Thistle high high LH Sonchus oleraceus Common Sow-thistle high low  MH Hypochoeris radicata Cat's Ear high low  MH Centaurium erythraea Common Centaury high low MH Prunella vulgaris Self-heal high low MH Cerastium glomeratum s.l. Common Mouse-ear Chickweed high low  MTG Vulpia bromoides Squirrel-tail Fescue high low MNG Aira elegantissima Delicate Hair-grass high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 133: Limestone Pomaderris Shrubland

##### Description:

Open woodland to 10 m tall or shrubland with scattered emergent eucalypts to 5 m tall occurring on steep, north facing aspects associated with limestone cliffs with an understorey dominated by medium shrubs. It is found at altitudes of 750 m above sea level and receives a moderate rainfall of approximately over 700 mm per annum.

+ woodland only components (ignore when assessing shrubland 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** |
| 10% | Eucalyptus nortonii  Eucalyptus globulus Eucalyptus viminalis | Silver Bundy  Blue Gum Manna Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree+ |  | 5% | IT |
| Understorey Tree or Large Shrub+ | 2 | 10% | T |
| Medium Shrub | 9 | 45% | MS |
| Small Shrub | 2 | 1% | SS |
| Large Herb | 5 | 5% | LH |
| Medium Herb | 10 | 15% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Medium to Small Tufted Graminoid | 7 | 20% | MTG |
| Scrambler or Climber | 3 | 1% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 133: Limestone Pomaderris Shrubland - East Gippsland Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T+ Allocasuarina verticillata Drooping Sheoak  T+ Banksia marginata Silver Banksia  MS K v Ozothamnus adnatus Winged Everlasting  MS Bursaria spinosa ssp. lasiophylla Hairy Bursaria  MS R r Pomaderris oraria ssp. calcicola Limestone Pomaderris  MS R r Pomaderris oraria Bassian Pomaderris  SS r Pimelea flava ssp. dichotoma Diosma Rice-flower  SS Pimelea glauca Smooth Rice-flower  PS Astroloma humifusum Cranberry Heath  LH Wahlenbergia gracilis s.l. Sprawling Bluebell  LH Senecio quadridentatus Cotton Fireweed  LH r Arthropodium sp. 1 (robust glaucous) Tall Vanilla-lily  MH Oxalis perennans Grassland Wood-sorrel  MH Daucus glochidiatus Australian Carrot  MH Galium migrans Wandering Bedstraw  SH Dichondra repens Kidney-weed  SH Hydrocotyle laxiflora Stinking Pennywort  SH Convolvulus erubescens spp. agg. Pink Bindweed  SH Cymbonotus preissianus Austral Bear's-ear  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Austrostipa nodosa Knotty Spear-grass  LTG Austrostipa blackii Crested Spear-grass  MTG Themeda triandra Kangaroo Grass  MTG Carex breviculmis Common Grass-sedge  MTG Dianella revoluta s.l. Black-anther Flax-lily  MTG Poa labillardierei Common Tussock-grass  GF Pleurosorus rutifolius s.l. Blanket Fern  SC k Clematis microphylla var. leptophylla Skeleton Vine  SC Clematis microphylla Small-leaved Clematis  **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Logs**+**:**  5 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Rosa rubiginosa Sweet Briar low high  LH Sonchus oleraceus Common Sow-thistle high low  LH Cirsium vulgare Spear Thistle high high LH Centaurium tenuiflorum Slender Centaury high low  MH Centaurium erythraea Common Centaury high low  MH Anagallis arvensis Pimpernel high low MH Taraxacum officinale spp. agg. Garden Dandelion high low MH Galium murale Small Goosegrass high low  MH Petrorhagia velutina Velvety Pink high low MH Cardamine hirsuta s.l. Common Bitter-cress high low  MH Stellaria media Chickweed high low  MH Veronica persica Persian Speedwell high low  MH Hypochoeris radicata Cat's Ear high low  MTG Catapodium rigidum Fern 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)

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

East Gippsland Uplands Bioregion

## EVC 133\_61: Treed Limestone Pomaderris Shrubland

#### Description:

Open woodland to 10 m tall or shrubland with scattered emergent eucalypts to 5 m tall occurring on steep, north facing aspects associated with limestone cliffs with an understorey dominated by medium shrubs. It is found at altitudes of 750 m above sea level and receives a moderate rainfall of approximately over 700 mm per annum.

#### Large Trees:

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

*Eucalyptus spp.*

60 cm

10 / ha

#### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 10% | *Eucalyptus globulus Eucalyptus nortonii Eucalyptus viminalis* | Southern Blue-gum Silver Bundy Manna Gum |

**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

Medium to Small Tufted Graminoid Scrambler or Climber

2 10% T

9 45% MS

2 1% SS

5 5% LH

10 15% MH

3 5% SH

2 5% LTG

7 20% MTG

3 1% SC

Bryophytes/Lichens 10% BL



Soil Crust 10% S/C

Ecological Vegetation Class Bioregion Benchmark

|  |  |  |
| --- | --- | --- |
| EVC 133\_61: Treed Limestone Pomaderris Shrubland | | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T *Allocasuarina verticillata* Drooping Sheoak  T *Banksia marginata* Silver Banksia  MS *Bursaria spinosa subsp. lasiophylla* Hairy Bursaria  MS v *Ozothamnus adnatus* Winged Everlasting  MS r *Pomaderris oraria* Bassian Pomaderris  MS r *Pomaderris oraria subsp. calcicola* Limestone Pomaderris  SS r *Pimelea flava subsp. dichotoma* Diosma Rice-flower  SS *Pimelea glauca* Smooth Rice-flower  LH r *Arthropodium sp. 1 (robust glaucous)* Tall Vanilla-lily  LH *Senecio quadridentatus* Cotton Fireweed  LH *Wahlenbergia gracilis* Sprawling Bluebell  MH *Daucus glochidiatus* Australian Carrot  MH *Galium migrans* Wandering Bedstraw  MH *Oxalis perennans* Grassland Wood-sorrel  SH *Convolvulus erubescens spp. agg.* Pink Bindweed  SH *Cymbonotus preissianus* Austral Bear's-ear  SH *Dichondra repens* Kidney-weed  SH *Hydrocotyle laxiflora* Stinking Pennywort  LTG *Austrostipa blackii* Crested Spear-grass  LTG *Austrostipa nodosa* Knotty Spear-grass  LTG *Lomandra longifolia* Spiny-headed Mat-rush  MTG *Carex breviculmis* Common Grass-sedge  MTG *Dianella revoluta s.l.* Black-anther Flax-lily  MTG *Poa labillardierei* Common Tussock-grass  MTG *Themeda triandra* Kangaroo Grass  SC *Clematis microphylla* Small-leaved Clematis  SC k *Clematis microphylla var. leptophylla* Skeleton Vine  **Recruitment:**  Continuous.  **Organic Litter:**  40 % cover  **Logs:**  5 m/0.1ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH *Cirsium vulgare* Spear Thistle high high  MH *Anagallis arvensis* Pimpernel high low  MH *Veronica persica* Persian Speedwell high low  MTG *Catapodium rigidum* Fern Grass high low LH *Centaurium tenuiflorum* Slender Centaury high low MH *Stellaria media* Chickweed high low MH *Cardamine hirsuta s.l.* Common Bitter-cress high low MH *Taraxacum officinale spp. agg.* Garden Dandelion high low MH *Centaurium erythraea* Common Centaury high low MH *Galium murale* Small Goosegrass high low  MH *Hypochoeris radicata* Cat's Ear high low  LH *Sonchus oleraceus* Common Sow-thistle high low  MH *Petrorhagia dubia* Velvety Pink high low  MS *Rosa rubiginosa* Sweet Briar low high | |
|  |  |  |
|  | Ecological Vegetation Class Bioregion Benchmark | |



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

East Gippsland Uplands bioregion

EVC 135: Gallery Rainforest

##### Description:

Closed forest to 20 m tall occurring along the fringes of substantial streams that periodically flood. The understorey comprises of a number of willowy shrubs that can withstand flooding while mature woody vines are generally absent.

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

##### Tree Canopy Cover:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 2 | 15% | T |
| Medium Shrub | 12 | 25% | MS |
| Large Herb | 3 | 1% | LH |
| Medium Herb | 11 | 15% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Large Tufted Graminoid | 3 | 5% | LTG |
| Large Non-tufted Graminoid | 2 | 5% | LNG |
| Medium to Small Tufted Graminoid | 6 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 5% | MNG |
| Ground Fern | 8 | 20% | GF |
| Tree Fern | 2 | 5% | TRF |
| Epiphyte | 2 | 1% | EP |
| Scrambler or Climber | 8 | 10% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 135: Gallery Rainforest - East Gippsland Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Pomaderris aspera Hazel Pomaderris  T Elaeocarpus reticulatus Blue Oliveberry  MS Coprosma quadrifida Prickly Currant-bush  MS Pimelea axiflora Bootlace Bush  MS Hedycarya angustifolia Austral Mulberry  MS Goodenia ovata Hop Goodenia  LH Senecio linearifolius Fireweed Groundsel  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Stellaria flaccida Forest Starwort  MH Gratiola peruviana Austral Brooklime  SH Dichondra repens Kidney-weed  SH Hydrocotyle tripartita Slender Pennywort  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Gahnia sieberiana Red-fruit Saw-sedge  LTG Carex appressa Tall Sedge  LNG Tetrarrhena juncea Forest Wire-grass  MTG Dianella tasmanica Tasman Flax-lily  MTG Carex breviculmis Common Grass-sedge  MTG Lepidosperma laterale Variable Sword-sedge  MTG Isolepis inundata Swamp Club-sedge  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Echinopogon ovatus Common Hedgehog-grass  MNG Poa tenera Slender Tussock-grass  MNG Oplismenus hirtellus Australian Basket-grass  GF Adiantum aethiopicum Common Maidenhair  GF Calochlaena dubia Common Ground-fern  GF Blechnum nudum Fishbone Water-fern  GF Blechnum cartilagineum Gristle Fern  TRF Cyathea australis Rough Tree-fern  TRF Dicksonia antarctica Soft Tree-fern  EP Hymenophyllum cupressiforme Common Filmy Fern  SC Smilax australis Austral Sarsaparilla  SC Clematis aristata Mountain Clematis  SC Eustrephus latifolius Wombat Berry  SC Tylophora barbata Bearded Tylophora  **Recruitment:**  Continuous  **Organic Litter:**  50 % 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  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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands 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**  30% | **Character Species**  Eucalyptus melliodora | **Common Name**  Yellow Box |
|  | Eucalyptus globoidea | White Stringybark |
|  | Eucalyptus muelleriana | Yellow Stringybark |
|  | Eucalyptus polyanthemos | Red Box |
|  | Eucalyptus macrorhyncha | Red Stringybark |
|  | Eucalyptus radiata s.l. | Narrow-leaf Peppermint |
|  | Eucalyptus bridgesiana s.l. | But But |

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 169: Dry Valley Forest - East Gippsland Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia falciformis Large-leaf Hickory-wattle  T Acacia mearnsii Black Wattle  MS Cassinia longifolia Shiny Cassinia  MS Kunzea ericoides Burgan  MS Indigofera australis Austral Indigo  MS Ozothamnus ferrugineus Tree Everlasting  SS Phyllanthus hirtellus Thyme Spurge  SS Pimelea humilis Common Rice-flower  SS Hibbertia obtusifolia Grey Guinea-flower  LH Senecio quadridentatus Cotton Fireweed  LH Xerochrysum bracteatum Golden Everlasting  LH Mentha laxiflora Forest Mint  MH Veronica plebeia Trailing Speedwell  MH Poranthera microphylla Small Poranthera  MH Hydrocotyle hirta Hairy Pennywort  MH Solanum prinophyllum Forest Nightshade  SH Oxalis corniculata s.l. Yellow Wood-sorrel  SH Dichondra repens Kidney-weed  SH Crassula sieberiana Sieber Crassula  SH Galium propinquum Maori Bedstraw  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Lepidosperma urophorum Tailed Rapier-sedge  LNG Gahnia radula Thatch Saw-sedge  LNG Tetrarrhena juncea Forest Wire-grass  MTG Poa australis spp. agg. Tussock Grass  MTG Lomandra filiformis Wattle Mat-rush  MTG Imperata cylindrica Blady Grass  MTG Austrodanthonia bipartita s.l. Leafy Wallaby-grass  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Luzula campestris spp. agg. Field Woodrush  MNG Entolasia marginata Bordered Panic  MNG Echinopogon ovatus Common Hedgehog-grass  GF Cheilanthes austrotenuifolia Green Rock-fern  GF Asplenium flabellifolium Necklace Fern  GF Pellaea falcata s.l. Sickle Fern  GF Doodia australis Common Rasp-fern  EP Cassytha melantha Coarse Dodder-laurel  SC Pandorea pandorana Wonga Vine  SC Clematis microphylla Small-leaved Clematis  SC Glycine clandestina Twining Glycine  **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Centaurium tenuiflorum Slender Centaury high low MH Hypochoeris radicata Cat's Ear high low MH Cerastium glomeratum s.l. Common Mouse-ear Chickweed high low MH Prunella vulgaris Self-heal high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 175\_61: Rainshadow Grassy Woodland

##### Description:

A variable open eucalypt woodland to 15m 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)**  70 cm | **#/ha**  15 / ha |

##### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus albens | White Box |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia mearnsii | **Common Name**  Black Wattle |
| T | Acacia implexa | Lightwood |
| T | Brachychiton populneus ssp. populneus | Kurrajong |
| MS | Cassinia longifolia | Shiny Cassinia |
| MS | Kunzea ericoides | Burgan |
| MS | Ozothamnus conditus | Pepper Everlasting |
| MS | Indigofera australis | Austral Indigo |
| SS | Lissanthe strigosa ssp. subulata | Peach Heath |
| PS | Astroloma humifusum | Cranberry Heath |
| LH | Wahlenbergia gracilis s.l. | Sprawling Bluebell |
| LH | Senecio quadridentatus | Cotton Fireweed |
| MH | Hypericum gramineum | Small St John's Wort |
| MH | Stellaria pungens | Prickly Starwort |
| SH | Dichondra repens | Kidney-weed |
| SH | Hydrocotyle laxiflora | Stinking Pennywort |
| SH | Cymbonotus preissianus | Austral Bear's-ear |
| MTG | Carex breviculmis | Common Grass-sedge |
| MTG | Poa sieberiana | Grey Tussock-grass |
| MTG | Elymus scaber var. scaber | Common Wheat-grass |
| MTG | Lepidosperma laterale | Variable Sword-sedge |
| GF | Cheilanthes austrotenuifolia | Green Rock-fern |
| SC | Clematis microphylla | Small-leaved Clematis |
| SC | Glycine clandestina | Twining Glycine |
| SC | Glycine tabacina s.l. | Variable Glycine |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 175\_61: Rainshadow Grassy Woodland - East Gippsland Uplands Bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Rosa rubiginosa Sweet Briar low high  MH Hypochoeris radicata Cat's Ear high low  MH Centaurium erythraea Common Centaury 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 175\_62: Limestone 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 limestone-derived soils.

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

##### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus melliodora  Eucalyptus mannifera ssp. mannifera Eucalyptus viminalis s.l.  Eucalyptus rubida | Yellow Box  Brittle Gum Manna Gum  Candlebark |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 3 | 10% | T |
| Medium Shrub | 3 | 15% | MS |
| Small Shrub | 2 | 5% | SS |
| Large Herb | 4 | 5% | LH |
| Medium Herb | 8 | 15% | MH |
| Small or Prostrate Herb | 3 | 10% | 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 | 2 | 5% | GF |
| Scrambler or Climber | 3 | 5% | SC |
| Bryophytes/Lichens | na | 10% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 175\_62: Limestone Grassy Woodland – East Gippsland Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia mearnsii Black Wattle  T Acacia melanoxylon Blackwood  T Acacia implexa Lightwood  T V v Acacia caerulescens Limestone Blue Wattle  MS Hymenanthera dentata s.l. Tree Violet  MS Bursaria spinosa ssp. spinosa Sweet Bursaria  MS Kunzea ericoides Burgan  PS Astroloma humifusum Cranberry Heath  LH Wahlenbergia gracilis s.l. Sprawling Bluebell  LH Senecio quadridentatus Cotton Fireweed  MH Hypericum gramineum Small St John's Wort  MH Acaena echinata Sheep’s-burr  MH Acaena novae-zelandiae Bidgee-widgee  MH Oxalis perennans Grassland Wood-sorrel  SH Hydrocotyle laxiflora Stinking Pennywort  SH Dichondra repens Kidneyweed  LTG Poa labillardierei Common Tussock-grass  MTG Carex breviculmis Common Grass-sedge  MTG Themeda triandra Kangaroo Grass  MTG Bothriochloa macra Red-leg Grass  MTG Elymus scaber var. scaber Common Wheat-grass  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Echinopogon ovatus Hedgehog Grass  GF Pteridium esculentum Austral Bracken  SC Clematis microphylla Small-leaved Clematis  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**  MS Rosa rubiginosa Sweet Briar low 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 Plantago lanceolata Ribwort high low  LH Cirsium vulgare Spear Thistle 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 177: Valley Slopes Dry Forest

##### Description:

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

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

##### Tree Canopy Cover:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 2 | 15% | T |
| Medium Shrub | 5 | 20% | MS |
| Prostrate Shrub | 1 | 5% | PS |
| Large Herb | 1 | 5% | LH |
| Medium Herb | 3 | 10% | MH |
| Small or Prostrate Herb | 1 | 5% | SH |
| Medium to Small Tufted Graminoid | 3 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 5% | MNG |
| Scrambler or Climber | 2 | 5% | SC |
| Bryophytes/Lichens | na | 10 % | BL |
| **Total understorey projective foliage cover** |  | **50%** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  T |  | **Species typical of at least part of EVC range**  Exocarpos cupressiformis | **Common Name**  Cherry Ballart |
| T |  | Acacia silvestris | Red Wattle |
| MS |  | Phyllanthus gunnii | Shrubby Spurge |
| MS |  | Philotheca trachyphylla | Rock Wax-flower |
| MS |  | Hymenanthera dentata s.l. | Tree Violet |
| MS |  | Cassinia trinerva | Three-nerved Cassinia |
| PS |  | Xanthosia dissecta s.l. | Cut-leaf Xanthosia |
| LH |  | Plectranthus parviflorus | Cockspur Flower |
| MH |  | Stellaria flaccida | Forest Starwort |
| MH |  | Rumex brownii | Slender Dock |
| MH |  | Einadia hastata | Saloop |
| SH |  | Oxalis chnoodes | Plains Wood-sorrel |
| MTG |  | Notodanthonia longifolia | Long-leaf Wallaby-grass |
| MTG |  | Lepidosperma laterale | Variable Sword-sedge |
| MTG |  | Poa sieberiana var. sieberiana | Grey Tussock-grass |
| MNG |  | Microlaena stipoides var. stipoides | Weeping Grass |
| SC | k | Clematis microphylla var. leptophylla | Skeleton Vine |
| SC |  | Marsdenia rostrata | Milk Vine |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 177: Valley Slopes Dry Forest - East Gippsland Uplands bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  SS Rubus sp. aff. armeniacus Blackberry high high LH Sonchus asper s.l. Rough Sow-thistle high low MH Hypochoeris radicata Cat's Ear high low MH Moenchia erecta Erect Chickweed high low MH Cerastium glomeratum s.l. Common Mouse-ear Chickweed high low MH Aphanes arvensis Parsley Piert high low  MTG Vulpia bromoides Squirrel-tail Fescue high low  MNG Aira cupaniana Quicksilver Grass high low  MNG Aira caryophyllea Silvery Hair-grass high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands 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** | **Character Species** | **Common Name** |
| 40% | Eucalyptus delegatensis ssp. delegatensis  Eucalyptus croajingolensis Eucalyptus obliqua | Alpine Ash  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 - East Gippsland Uplands 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands 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

|  |  |
| --- | --- |
| EVC 206: Sub-alpine Grassland – East Gippsland Uplands bioregion | |
|  | 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands 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. 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 cypellocarpa  Eucalyptus globoidea Eucalyptus polyanthemos | Mountain Grey-gum  White Stringybark Red Box |

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 316: Shrubby Damp Forest - East Gippsland Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia dealbata Silver Wattle  MS Cassinia longifolia Shiny Cassinia  MS Coprosma quadrifida Prickly Currant-bush  MS Goodenia ovata Hop Goodenia  MS Epacris impressa Common Heath  SS Hibbertia obtusifolia Grey Guinea-flower  SS Olearia erubescens Moth Daisy-bush  LH Stypandra glauca Nodding Blue-lily  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Hydrocotyle hirta Hairy Pennywort  MH Poranthera microphylla Small Poranthera  MH Lagenophora stipitata Common Bottle-daisy  SH Dichondra repens Kidney-weed  SH Hydrocotyle laxiflora Stinking Pennywort  SH Opercularia varia Variable Stinkweed  SH Chiloglottis gunnii s.l. Common Bird-orchid  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Deyeuxia quadriseta Reed Bent-grass  LNG Tetrarrhena juncea Forest Wire-grass  LNG Gahnia radula Thatch Saw-sedge  MTG Poa australis spp. agg. Tussock Grass  MTG Lomandra filiformis Wattle Mat-rush  MTG Dianella tasmanica Tasman Flax-lily  MTG Lepidosperma laterale Variable Sword-sedge  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Pteridium esculentum Austral Bracken  GF Calochlaena dubia Common Ground-fern  TRF Cyathea australis Rough Tree-fern  EP Cassytha melantha Coarse Dodder-laurel  SC Clematis aristata Mountain Clematis  SC Hardenbergia violacea Purple Coral-pea  SC Billardiera scandens Common Apple-berry  SC Comesperma volubile Love Creeper  **Recruitment:**  Continuous  **Organic Litter:**  80 % 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 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 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 318: Montane Swamp

##### Description:

Forms in drainage-lines on wet alluviums at montane and sub-montane elevations where annual rainfall is in the order of 650- 750 mm. The vegetation is virtually treeless but occasional eucalypt emergents may be present. Characterised by an open shrub layer and a ground layer with a diversity of sedges, grasses, herbs and ferns.

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Baeckea utilis s.l. | **Common Name**  Mountain Baeckea |
| MS | Leptospermum myrtifolium | Myrtle Tea-tree |
| MS | Epacris breviflora | Drumstick Heath |
| MS | Hakea microcarpa | Small-fruit Hakea |
| SS | Epacris microphylla s.l. | Coral Heath |
| MH | Asperula conferta | Common Woodruff |
| SH | Leptinella filicula | Mountain Cotula |
| LTG | Carex appressa | Tall Sedge |
| MTG | Schoenus apogon | Common Bog-sedge |
| MTG | Isolepis subtilissima | Club-sedge |
| MTG | Festuca asperula | Graceful Fescue |
| MTG | Poa costiniana | Prickly Snow-grass |
| MNG | Baloskion australe | Mountain Cord-rush |
| MNG | Baumea gunnii | Slender Twig-sedge |
| MNG | Empodisma minus | Spreading Rope-rush |
| 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 318: Montane Swamp - East Gippsland Uplands bioregion | |
|  | 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands 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 dives  Eucalyptus mannifera ssp. mannifera Eucalyptus rubida | Broad-leaved Peppermint  Brittle Gum Candlebark |

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 319: Montane Herb-rich Woodland - East Gippsland Uplands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia dealbata Silver Wattle  MS Cassinia aculeata Common Cassinia  MS Exocarpos strictus Pale-fruit Ballart  MS Choretrum pauciflorum Dwarf Sour-bush  MS Leucopogon fletcheri ssp. brevisepalus Twin-flower Beard-heath  SS Tetratheca bauerifolia Heath Pink-bells  SS Hibbertia obtusifolia Grey Guinea-flower  SS Olearia erubescens Moth Daisy-bush  PS Platylobium formosum Handsome Flat-pea  PS Acrotriche serrulata Honey-pots  LH Wahlenbergia stricta Tall Bluebell  LH Senecio tenuiflorus Slender Fireweed  LH Derwentia derwentiana Derwent Speedwell  MH Euchiton collinus s.s. Creeping Cudweed  MH Poranthera microphylla Small Poranthera  MH Stellaria pungens Prickly Starwort  MH Gonocarpus tetragynus Common Raspwort  SH Hydrocotyle laxiflora Stinking Pennywort  SH Galium ciliare Hairy Bedstraw  SH Cymbonotus preissianus Austral Bear's-ear  LTG Lomandra longifolia Spiny-headed Mat-rush  MTG Dichelachne sciurea spp. agg. Short-hair Plume-grass  MTG Dianella tasmanica Tasman Flax-lily  MTG Poa sieberiana Grey Tussock-grass  MTG Austrodanthonia pilosa Velvet Wallaby-grass  GF Pteridium esculentum Austral Bracken  GF Polystichum proliferum Mother Shield-fern  GF Asplenium flabellifolium Necklace Fern  SC Clematis aristata Mountain Clematis  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**  LH Cirsium vulgare Spear Thistle high low  MH Hypochoeris radicata Cat's Ear high low  MH Centaurium erythraea Common Centaury high low MH Cerastium semidecandrum s.l. Mouse-ear Chickweed high low  MH Taraxacum officinale spp. agg. Garden Dandelion high low MNG Aira caryophyllea Silvery Hair-grass 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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)



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

East Gippsland Uplands bioregion

EVC 877: Lowland Herb-rich Forest

##### Description:

Primarily occurs in gullies and along slopes, and soils are reasonably fertile colluvial loams. Open eucalypt forest to 20 m tall with a range of medium shrubs conspicuous in the mid-stratum. The ground stratum is dominated by a dense cover of grasses and a high diversity of tussock-forming graminoids and herbs. There is a diversity of vines and scramblers.

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

##### Tree Canopy Cover:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 4 | 20% | MS |
| Small Shrub | 2 | 5% | SS |
| Large Herb | 4 | 10% | LH |
| Medium Herb | 8 | 15% | MH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 5 | 15% | MTG |
| Scrambler or Climber | 1 | 1% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| **Total understorey projective foliage cover** |  | **75%** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  MS |  | **Species typical of at least part of EVC range**  Indigofera australis | **Common Name**  Austral Indigo |
| MS |  | Cassinia longifolia | Shiny Cassinia |
| MS |  | Olearia lirata | Snowy Daisy-bush |
| MS | r | Beyeria lasiocarpa | Wallaby-bush |
| SS |  | Olearia iodochroa | Violet Daisy-bush |
| SS |  | Hibbertia obtusifolia | Grey Guinea-flower |
| LH |  | Stypandra glauca | Nodding Blue-lily |
| LH |  | Wahlenbergia stricta | Tall Bluebell |
| LH |  | Senecio tenuiflorus | Slender Fireweed |
| LH |  | Helichrysum leucopsideum | Satin Everlasting |
| MH |  | Pomax umbellata | Pomax |
| MH |  | Poranthera microphylla | Small Poranthera |
| MH |  | Stellaria pungens | Prickly Starwort |
| MH |  | Veronica calycina | Hairy Speedwell |
| LTG |  | Lomandra longifolia | Spiny-headed Mat-rush |
| LNG |  | Gahnia radula | Thatch Saw-sedge |
| MTG |  | Poa sieberiana | Grey Tussock-grass |
| EP |  | Amyema spp. | Mistletoe |
| SC |  | Billardiera scandens | Common Apple-berry |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 877: Lowland Herb-rich Forest - East Gippsland Uplands bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Sonchus oleraceus Common Sow-thistle high low LH Cirsium vulgare Spear Thistle high high  MH Hypochoeris radicata Cat's Ear high low MH Centaurium erythraea Common Centaury high low  MH Cerastium glomeratum s.l. Common Mouse-ear Chickweed high low  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. |

[**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/)