

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

East Gippsland Lowlands bioregion

EVC 2: Coast Banksia Woodland

###### Description:

Restricted to near coastal localities on secondary dunes behind Coastal Dune Scrub. Usually dominated by a woodland overstorey of Saw Banksia Banksia integrifolia to 15 m tall over a medium shrub layer. The understorey consists of a number of herbs and sedges, including scramblers. Soils are intermediate in calcium and iron content between the foredunes where these elements are leached from the A and B soil horizons. Soils are also intermediate in organic matter between these dune systems.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species** | **DBH(cm)** | **#/ha** |
| Banksia spp.  Eucalyptus spp. | 50 cm  70 cm | 10 / ha |

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Banksia integrifolia  Eucalyptus botryoides | Coast Banksia  Bangalay |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Monotoca elliptica | **Common Name**  Tree Broom-heath |
| MS | Leptospermum laevigatum | Coast Tea-tree |
| MS | Leucopogon parviflorus | Coast Beard-heath |
| MS | Alyxia buxifolia | Sea Box |
| MS | Rhagodia candolleana ssp. candolleana | Seaberry Saltbush |
| SS | Dampiera stricta | Blue Dampiera |
| SS | Dillwynia glaberrima | Smooth Parrot-pea |
| MH | Dichondra repens | Kidney-weed |
| LTG | Lomandra longifolia | Spiny-headed Mat-rush |
| MTG | Lepidosperma gladiatum | Coast Sword-sedge |
| MTG | Burchardia umbellata | Milkmaids |
| GF | Pteridium esculentum | Austral Bracken |
| SC | Tetragonia implexicoma | Bower Spinach |
| SC | Muehlenbeckia adpressa | Climbing Lignum |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 2: Coast Banksia Woodland - East Gippsland Lowlands bioregion | |
|  | **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 30 years.  **Organic Litter:**  40 % cover  **Logs:**  10 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 Lowlands bioregion

EVC 3: Damp Sands Herb-rich Woodland

###### Description:

A low, grassy or bracken-dominated eucalypt and banksia woodland or open forest to 15 m tall with a large shrub layer and ground layer rich in herbs, grasses, and orchids. Occurs mainly on old sand flats or undulating areas on moderately fertile, relatively well-drained, deep sandy or loamy topsoils over heavier subsoils (duplex soils). The subsoil of the tertiary dune systems has concretions of humus and iron rich deposits forming a coffee rock layer.

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

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus viminalis ssp. pryoriana  Banksia serrata Banksia integrifolia | Rough-barked Manna Gum  Saw Banksia Coast Banksia |

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 3: Damp Sands Herb-rich Woodland - East Gippsland Lowlands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia mearnsii Black Wattle  MS Epacris impressa Common Heath  MS Leptospermum continentale Prickly Tea-tree  MS Banksia marginata Silver Banksia  MS Leptospermum myrsinoides Heath Tea-tree  SS Leucopogon virgatus Common Beard-heath  SS Dillwynia glaberrima Smooth Parrot-pea  SS Amperea xiphoclada var. xiphoclada Broom Spurge  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 Hydrocotyle laxiflora Stinking Pennywort  SH Opercularia varia Variable Stinkweed  SH Dichondra repens Kidney-weed  SH Poranthera microphylla Small Poranthera  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Austrostipa mollis Supple Spear-grass  LTG Poa labillardierei Common Tussock-grass  LNG Tetrarrhena juncea Forest Wire-grass  MTG Lepidosperma concavum Sandhill Sword-sedge  MTG Dianella revoluta s.l. Black-anther Flax-lily  MTG Lomandra filiformis Wattle-headed Mat-rush  MTG Poa sieberiana Grey Tussock-grass  MNG Imperata cylindrica Blady Grass  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Pteridium esculentum Austral Bracken  SC Comesperma volubile Love Creeper  SC Thysanotus patersonii Climbing Fringe-lily  **Recruitment:**  Continuous  **Organic Litter:**  40 % 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 LNG Holcus lanatus Yorkshire Fog high high MTG Anthoxanthum odoratum Sweet Vernal Grass high high  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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



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

East Gippsland Lowlands bioregion

EVC 4: Coastal Vine-rich Forest

###### Description:

Closed to open forest to 25 m tall. Occurs only in East Gippsland and develops at the foot of slopes (often in shallow coastal gullies) which spill out onto coastal inlets or on aeolian sands on the seaward side of coastal hills which have a damp southerly aspect. The understorey has a scattered tall shrub layer and is covered with a diverse array of rainforest lianes. The groundlayer is dominated by Bracken Pteridium esculentum, tussock grasses and a wide array of herbs. This EVC is the early stages of littoral rainforest colonisation or recovery following severe wildfire.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species** | **DBH(cm)** | **#/ha** |
| Eucalyptus spp.  Angophora spp.  Acmena spp. | 80 cm  70 cm  70 cm | 20 / ha |

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Eucalyptus botryoides  Angophora floribunda Eucalyptus gummifera Acmena smithii | Southern Mahogany  Rough-barked Apple Red Bloodwood  Lilly Pilly |

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 4: Coastal Vine-rich Forest - East Gippsland Lowlands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Elaeocarpus reticulatus Blue Oliveberry  T Acacia mearnsii Black Wattle  MS Melaleuca squarrosa Scented Paperbark  MS Platysace lanceolata Shrubby Platysace  MS Notelaea venosa Large Mock-olive  MS Monotoca elliptica s.l. Tree Broom-heath  SS Dampiera stricta Blue Dampiera  SS Tetratheca pilosa Hairy Pink-bells  SS Amperea xiphoclada var. xiphoclada Broom Spurge  MH Hydrocotyle hirta Hairy Pennywort  MH Lagenophora stipitata Common Bottle-daisy  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Gonocarpus teucrioides s.l. Germander Raspwort  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Gahnia clarkei Tall Saw-sedge  LNG Tetrarrhena juncea Forest Wire-grass  MTG Lepidosperma laterale Variable Sword-sedge  MTG Dianella caerulea var. caerulea Paroo Lily  GF Pteridium esculentum Austral Bracken  SC Clematis glycinoides Mountain Clematis  SC Tylophora barbata Bearded Tylophora  SC Cissus hypoglauca Jungle Grape  SC Eustrephus latifolius Wombat Berry  **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 Lowlands bioregion

EVC 5: Coastal Sand Heathland

Description:

An open or closed coastal heathland less than 1 m tall dominated by a diverse shrub layer and a variable ground layer of sedges, lilies and grasses. The heathland is found on well-drained siliceous sands and is often wind-pruned due to extreme exposure to wind and salt-spray.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 8 | 40% | MS |
| Small Shrub | 6 | 15% | SS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 5 | 10% | MH |
| Large Tufted Graminoid | 3 | 5% | LTG |
| Medium to Small Tufted Graminoid | 4 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 4 | 15% | MNG |
| Ground Fern | 2 | 5% | GF |
| Scrambler or Climber | 1 | 1% | SC |
| Bryophytes/Lichens | na | 10% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Leptospermum continentale | **Common Name**  Prickly Tea-tree |
| MS | Allocasuarina paludosa | Scrub Sheoak |
| MS | Epacris impressa | Common Heath |
| MS | Leptospermum laevigatum | Coast Tea-tree |
| SS | Dillwynia glaberrima | Smooth Parrot-pea |
| SS | Dampiera stricta | Blue Dampiera |
| SS | Hibbertia empetrifolia s.l. | Tangled Guinea-flower |
| SS | Leucopogon collinus | Fringed Beard-heath |
| PS | Xanthosia pusilla spp. agg. | Heath Xanthosia |
| MH | Selaginella uliginosa | Swamp Selaginella |
| MH | Gonocarpus teucrioides s.l. | Germander Raspwort |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| SH | Opercularia varia | Variable Stinkweed |
| LTG | Lomandra longifolia | Spiny-headed Mat-rush |
| LTG | Anisopogon avenaceus | Oat Spear-grass |
| MTG | Patersonia glabrata | Leafy Purple-flag |
| MTG | Themeda triandra | Kangaroo Grass |
| MTG | Lepidosperma concavum | Sandhill Sword-sedge |
| MTG | Lepidosperma filiforme | Common Rapier-sedge |
| MNG | Schoenus brevifolius | Zig-zag Bog-sedge |
| MNG | Empodisma minus | Spreading Rope-rush |
| MNG | Leptocarpus tenax | Slender Twine-rush |
| MNG | Lepidosperma neesii | Stiff Rapier-sedge |
| GF | Pteridium esculentum | Austral Bracken |
| GF | Lindsaea linearis | Screw Fern |
| SC | Cassytha glabella | Slender Dodder-laurel |

Recruitment:

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

Organic Litter:

20% cover

Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 5: Coastal Sand Heathland - East Gippsland Lowlands 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 Lowlands bioregion

EVC 7: Clay Heathland

Description:

Occurs on sites with impeded drainage, often on duplex soils. Dominated by heathy shrub species with or without an 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**  6 | **%Cover**  30% | **LF code**  MS |
| Small Shrub | 7 | 20% | SS |
| Prostrate Shrub | 2 | 1% | PS |
| Large Herb | 2 | 1% | LH |
| Medium Herb | 8 | 10% | MH |
| Small or Prostrate Herb | 2 | 1% | SH |
| Large Tufted Graminoid | 3 | 5% | LTG |
| Medium to Small Tufted Graminoid | 4 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 4 | 5% | MNG |
| Ground Fern | 2 | 1% | GF |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **75%** |  |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 7: Clay Heathland - East Gippsland Lowlands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  MS Allocasuarina paludosa Scrub Sheoak  MS Leptospermum continentale Prickly Tea-tree  MS Epacris impressa Common Heath  MS Hakea teretifolia ssp. hirsuta Dagger Hakea  SS Dampiera stricta Blue Dampiera  SS Dillwynia sericea s.l. Showy Parrot-pea  SS Hibbertia empetrifolia s.l. Tangled Guinea-flower  SS Sphaerolobium vimineum s.l. Leafless Globe-pea  PS Xanthosia pusilla spp. agg. Heath Xanthosia  LH Euphrasia collina Purple Eyebright  LH r Hybanthus vernonii ssp. vernonii Erect Violet  MH Gonocarpus teucrioides s.l. Germander Raspwort  MH Drosera peltata ssp. auriculata Tall Sundew  MH Helichrysum scorpioides Button Everlasting  SH Opercularia varia Variable Stinkweed  SH Drosera pygmaea Tiny Sundew  LTG Anisopogon avenaceus Oat Spear-grass  LTG Xanthorrhoea resinosa Spear Grass-tree  LTG Deyeuxia quadriseta Reed Bent-grass  MTG Themeda triandra Kangaroo Grass  MTG Patersonia sericea Silky Purple-flag  MTG Lomandra filiformis Wattle Mat-rush  MTG Patersonia glabrata Leafy Purple-flag  MNG Schoenus brevifolius Zig-zag Bog-sedge  MNG Lepidosperma neesii Stiff Rapier-sedge  MNG Entolasia marginata Bordered Panic  MNG Schoenus lepidosperma Slender Bog-sedge  GF Lindsaea linearis Screw Fern  SC Cassytha glabella Slender Dodder-laurel  **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 30 years.  **Organic Litter:**  20% Cover  **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 Lowlands Bioregion

EVC 7\_61: Treed Clay Heathland

###### Description:

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

###### Large Trees:

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

*Eucalyptus spp.*

40 cm

10 / ha

###### Tree Canopy Cover:

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

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

Small or Prostrate Herb Large Tufted Graminoid

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

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

1. 30% MS
2. 20% SS

2 1% PS

2 1% LH

8 10% MH

1. 1% SH
2. 5% LTG
3. 5% MTG

4 5% MNG

2 1% GF

Bryophytes/Lichens 10% BL

Soil Crust 10% S/C

###### LF Code Species typical of at least part of EVC range Common Name

MS *Allocasuarina paludosa* Scrub Sheoak

MS *Epacris impressa* Common Heath

MS *Hakea teretifolia subsp. hirsuta* Dagger Hakea

MS *Leptospermum continentale* Prickly Tea-tree

SS *Dampiera stricta* Blue Dampiera

SS *Dillwynia sericea* Showy Parrot-pea

SS *Hibbertia empetrifolia s.l.* Tangled Guinea-flower

SS *Sphaerolobium vimineum s.l.* Leafless Globe-pea

PS *Xanthosia pusilla spp. agg.* Heath Xanthosia

LH *Euphrasia collina* Purple Eyebright

LH r

*Hybanthus vernonii subsp. vernonii* Erect Violet

MH *Drosera peltata subsp. auriculata* Tall Sundew



MH *Gonocarpus teucrioides s.l.* Germander Raspwort

MH *Helichrysum scorpioides* Button Everlasting

SH *Drosera pygmaea* Tiny Sundew

Ecological Vegetation Class Bioregion Benchmark

|  |  |
| --- | --- |
| EVC 7\_61: Treed Clay Heathland | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  SH *Opercularia varia* Variable Stinkweed  LTG *Anisopogon avenaceus* Oat Spear-grass  LTG *Deyeuxia quadriseta* Reed Bent-grass  LTG *Xanthorrhoea resinosa* Spear Grass-tree  MTG *Lomandra filiformis* Wattle Mat-rush  MTG *Patersonia glabrata* Leafy Purple-flag  MTG *Patersonia sericea* Silky Purple-flag  MTG *Themeda triandra* Kangaroo Grass  MNG *Entolasia marginata* Bordered Panic  MNG *Lepidosperma neesii* Stiff Rapier-sedge  MNG *Schoenus brevifolius* Zig-zag Bog-sedge  MNG *Schoenus lepidosperma* Slender Bog-sedge  GF *Lindsaea linearis* Screw Fern  **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 30 years.  **Organic Litter:**  20 % cover  **Logs:**  5 m/0.1ha. (note: large log class does not apply).  **Weediness:** There are no consistent weeds in this EVC  Published by the Victorian Government Department of Sustainability and Environment  © The State of Victoria Government Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-comercial is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson St, East Melbourne, Victoria 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss, of other consequences which may arise from you relying on any information in this publication.  [**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/) |



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

East Gippsland Lowlands 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 | 40% | MS |
| Small Shrub | 4 | 5% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 4 | 5% | MH |
| Large Tufted Graminoid | 2 | 15% | LTG |
| Medium to Small Tufted Graminoid | 3 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 5 | 10% | MNG |
| Ground Fern | 1 | 1% | GF |
| Scrambler or Climber | 1 | 1% | 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 | Epacris impressa | Common Heath |
| MS | Epacris obtusifolia | Blunt-leaf Heath |
| MS | Comesperma ericinum | Heath Milkwort |
| SS | Dampiera stricta | Blue Dampiera |
| SS | Dillwynia glaberrima | Smooth Parrot-pea |
| PS | Xanthosia dissecta s.l. | Cut-leaf Xanthosia |
| MH | Selaginella uliginosa | Swamp Selaginella |
| MH | Drosera peltata ssp. auriculata | Tall Sundew |
| MH | Gonocarpus teucrioides s.l. | Germander Raspwort |
| LTG | Xanthorrhoea resinosa | Spear Grass-tree |
| MTG | Eurychorda complanata | Flat Cord-rush |
| MTG | Stylidium graminifolium s.l. | Grass Trigger-plant |
| MTG | Patersonia fragilis | Short Purple-flag |
| MTG | Burchardia umbellata | Milkmaids |
| MNG | Leptocarpus tenax | Slender Twine-rush |
| MNG | Empodisma minus | Spreading Rope-rush |
| MNG | Schoenus brevifolius | Zig-zag Bog-sedge |
| MNG | Schoenus lepidosperma | Slender Bog-sedge |
| GF | Lindsaea linearis | Screw Fern |
| SC | Cassytha glabella | Slender Dodder-laurel |

Recruitment:

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

Organic Litter:

20% cover

Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 8: Wet Heathland - East Gippsland Lowlands 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 Lowlands bioregion

EVC 9: Coastal Saltmarsh

Description:

Occurs on and immediately above marine and estuarine tidal flats and contains distinct floristic communities as bands or zones in the same location, depending on the positioning of the various floristic communities in relation to the saline environment. Consists of a range of life forms including succulent herbs, low succulent shrubs, rushes and sedges.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 3 | 10% | MS |
| Small Shrub | 2 | 1% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Medium Herb | 4 | 20% | MH |
| Small or Prostrate Herb | 1 | 5% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Large Non-tufted Graminoid | 2 | 10% | LNG |
| Medium to Small Tufted Graminoid | 2 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 15% | MNG |
| Scrambler or Climber | 1 | 1% | SC |
| Soil Crust | na | 10 % | S/C |
| **Total understorey projective foliage cover** |  | **75%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  PS | **Species typical of at least part of EVC range**  Wilsonia backhousei | **Common Name**  Narrow-leaf Wilsonia |
| MH | Sarcocornia quinqueflora | Beaded Glasswort |
| MH | Samolus repens | Creeping Brookweed |
| SH | Selliera radicans | Shiny Swamp-mat |
| LNG | Juncus kraussii ssp. australiensis | Sea Rush |
| MNG | Baumea juncea | Bare Twig-sedge |

Recruitment:

Continuous

Organic Litter:

10% cover

Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 9: Coastal Saltmarsh - East Gippsland Lowlands 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 Lowlands bioregion

EVC 10: Estuarine Wetland

Description:

Grows on anaerobic peat-rich muds on the edges of estuarine waterbodies such as creeks, rivers and lagoons with intermediate salinity conditions. Vegetation is determined by fluctuating salinity, which varies in time from occasionally fresh to brackish or occasionally saline according to river flood and marine tide events. Dominated by graminoids and halophytic herbs and often fringed by a tall scrub layer of Swamp Paperbark Melaleuca ericifolia at the landward edge.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** Medium Shrub | **#Spp**  1 | **%Cover**  10% | **LF code**  MS |
| Small Shrub | 2 | 5% | SS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 6 | 15% | MH |
| Small or Prostrate Herb | 2 | 10% | SH |
| Large Tufted Graminoid | 2 | 10% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 2 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 20% | MNG |
| Ground Fern | 1 | 5% | GF |
| Scrambler or Climber | 1 | 1% | SC |
| **Total understorey projective foliage cover** |  | **85%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Melaleuca ericifolia | **Common Name**  Swamp Paperbark |
| MH | Samolus repens | Creeping Brookweed |
| MH | Hydrocotyle hirta | Hairy Pennywort |
| SH | Selliera radicans | Shiny Swamp-mat |
| LTG | Lomandra longifolia | Spiny-headed Mat-rush |
| LTG | Juncus pallidus | Pale Rush |
| LNG | Juncus kraussii ssp. australiensis | Sea Rush |
| MNG | Ficinia nodosa | Knobby Club-sedge |
| MNG | Distichlis distichophylla | Australian Salt-grass |
| GF | Pteridium esculentum | Austral Bracken |

Recruitment:

Episodic/Flood: desirable period of disturbance is every five years

Organic Litter:

10% cover

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Weediness: LF Code** | **Typical Weed Species** | **Common Name** | **Invasive** | **Impact** |
| LH LH  MH MH  MH | Cirsium vulgare Sonchus oleraceus  Hypochoeris radicata Plantago coronopus  Cotula coronopifolia | Spear Thistle Common Sow-thistle  Cat's Ear  Buck's-horn Plantain Water Buttons | high high  high high  high | high low  low high  high |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 10: Estuarine Wetland - East Gippsland Lowlands 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 Lowlands bioregion

EVC 11: Coastal Lagoon Wetland

Description:

Occupies the margins of coastal freshwater lagoons that have formed behind the coastal dune barrier and the adjacent hills. It has several zones dependent upon water depth and persistence of inundation. Within the lagoon itself where exposure is rare, the vegetation is dominated by graminoids whereas on the lagoon margin a tall scrub layer is common.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 5 | 15% | MS |
| Small Shrub | 2 | 1% | SS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 2 | 5% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Tufted Graminoid | 2 | 10% | LTG |
| Large Non-tufted Graminoid | 2 | 15% | LNG |
| Medium to Small Tufted Graminoid | 1 | 1% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Ground Fern | 1 | 5% | GF |
| Scrambler or Climber | 1 | 1% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| **Total understorey projective foliage cover** |  | **60%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Leptospermum glabrescens s.l. | **Common Name**  Smooth Tea-tree |
| MS | Leptospermum continentale | Prickly Tea-tree |
| MS | Melaleuca squarrosa | Scented Paperbark |
| MS | Melaleuca ericifolia | Swamp Paperbark |
| MH | Gonocarpus tetragynus | Common Raspwort |
| LTG | Triglochin procerum s.l. | Water Ribbons |
| LTG | Carex appressa | Tall Sedge |
| LNG | Phragmites australis | Common Reed |
| LNG | Lepidosperma longitudinale | Pithy Sword-sedge |
| MNG | Baumea tetragona | Square Twig-sedge |
| SC | Cassytha glabella | Slender Dodder-laurel |

Recruitment:

Continuous

Organic Litter:

20% cover

Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 11: Coastal Lagoon Wetland - East Gippsland Lowlands 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 Lowlands bioregion

EVC 12: Wet Swale Herbland

Description:

Occupies seasonally inundated dune swales often forming between the coastal dune barrier and hinterland hills. Soils are predominantly deep peats often with aeolian sand lenses where species typical of drier environments may grow. This EVC typically consists of a range of amphibious rushes, sedges and herbs.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Small Shrub | 1 | 1% | SS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 7 | 15% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Large Non-tufted Graminoid | 1 | 1% | LNG |
| Medium to Small Tufted Graminoid | 4 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 4 | 25% | MNG |
| Ground Fern | 1 | 5% | GF |
| Scrambler or Climber | 2 | 1% | SC |
| **Total understorey projective foliage cover** |  | **70%** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  LH |  | **Species typical of at least part of EVC range**  Villarsia reniformis | **Common Name**  Running Marsh-flower |
| MH |  | Potamogeton tricarinatus s.l. | Floating Pondweed |
| MH |  | Myriophyllum simulans | Amphibious Water-milfoil |
| MH |  | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| MH |  | Veronica plebeia | Trailing Speedwell |
| SH |  | Dichondra repens | Kidney-weed |
| SH |  | Hydrocotyle sibthorpioides | Shining Pennywort |
| SH |  | Asperula subsimplex | Water Woodruff |
| LTG |  | Lomandra longifolia | Spiny-headed Mat-rush |
| LNG |  | Eleocharis sphacelata | Tall Spike-sedge |
| MTG |  | Lepidosperma concavum | Sandhill Sword-sedge |
| MTG |  | Isolepis fluitans | Floating Club-sedge |
| MTG |  | Lachnagrostis filiformis | Common Blown-grass |
| MTG |  | Triglochin procerum s.l. | Water Ribbons |
| MNG |  | Imperata cylindrica | Blady Grass |
| MNG |  | Hemarthria uncinata var. uncinata | Mat Grass |
| MNG |  | Microlaena stipoides var. stipoides | Weeping Grass |
| MNG | e | Pseudoraphis paradoxa | Slender Mud-grass |
| MNG |  | Ficinia nodosa | Knobby Club-sedge |
| GF |  | Pteridium esculentum | Austral Bracken |
| SC |  | Billardiera scandens | Common Apple-berry |
| SC |  | Glycine clandestina | Twining Glycine |

Recruitment:

Episodic/Flood: desirable period of disturbance is every five years

Organic Litter:

10% cover

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 12: Wet Swale Herbland - East Gippsland Lowlands 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 Lowlands bioregion

EVC 13: Brackish Sedgeland

Description:

Sedgeland dominated by moisture-dependent sedges with a grassy or herbaceous ground-layer. Sedges present are usually indicative of saline sites, but ground-layer is depauperate with few if any true halophytic species.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 2 | 5% | MH |
| Small or Prostrate Herb | 2 | 1% | SH |
| Medium to Tiny Non-tufted Graminoid | 2 | 55% | MNG |
| **Total understorey projective foliage cover** |  | **60%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  LH | **Species typical of at least part of EVC range**  Villarsia exaltata | **Common Name**  Erect Marsh-flower |
| LH | Villarsia reniformis | Running Marsh-flower |
| MH | Samolus repens | Creeping Brookweed |
| MH | Lobelia anceps | Angled Lobelia |
| SH | Selliera radicans | Shiny Swamp-mat |
| MNG | Leptocarpus tenax | Slender Twine-rush |
| MNG | Hemarthria uncinata var. uncinata | Mat Grass |
| MNG | Baumea juncea | Bare Twig-sedge |

Recruitment:

Continuous

Organic Litter:

NA

Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 13: Brackish Sedgeland - East Gippsland Lowlands 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 Lowlands 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**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  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 Lowlands 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 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 Lowlands 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 tricapra | 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 Lowlands 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:**  20 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Cirsium vulgare Spear Thistle high high  MH Hypochoeris radicata Cat's Ear high low MH 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/)



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

East Gippsland Lowlands 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 consideniana | Silvertop Ash  White Stringybark Yertchuk |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 10 | 30% | MS |
| Small Shrub | 6 | 15% | SS |
| Prostrate Shrub | 2 | 5% | PS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 6 | 10% | MH |
| Large Tufted Graminoid | 2 | 10% | 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 | 3 | 10% | GF |
| Scrambler or Climber | 3 | 5% | SC |
| Bryophytes/Lichens | na | 10% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 16: Lowland Forest - East Gippsland Lowlands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia melanoxylon Blackwood  T Exocarpos cupressiformis Cherry Ballart  MS Epacris impressa Common Heath  MS Persoonia linearis Narrow-leaf Geebung  MS Acacia myrtifolia Myrtle Wattle  MS Acacia terminalis Sunshine Wattle  SS Tetratheca pilosa Hairy Pink-bells  SS Hibbertia empetrifolia s.l. Tangled Guinea-flower  SS Dampiera stricta Blue Dampiera  SS Amperea xiphoclada var. xiphoclada Broom Spurge  MH Gonocarpus teucrioides s.l. Germander Raspwort  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Scaevola ramosissima Hairy Fan-flower  MH Opercularia aspera Coarse Stinkweed  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Xanthorrhoea minor ssp. lutea Small Grass-tree  LTG Gahnia sieberiana Red-fruit Saw-sedge  LNG Tetrarrhena juncea Forest Wire-grass  MTG Joycea pallida Silvertop Wallaby-grass  MTG Dianella caerulea var. caerulea Paroo Lily  MTG Lepidosperma laterale Variable Sword-sedge  MTG Patersonia glabrata Leafy Purple-flag  MTG Hierochloe rariflora Cane Holy-grass  GF Pteridium esculentum Austral Bracken  GF Lindsaea linearis Screw Fern  SC Cassytha phaeolasia Rusty Dodder-laurel  SC Cassytha glabella Slender Dodder-laurel  SC Billardiera scandens Common Apple-berry  **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 Lowlands 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 dense patches of shrubs, ferns, grasses and herbs.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Eucalyptus cypellocarpa  Eucalyptus croajingaolensis Eucalyptus viminalis  Eucalyptus elata | Mountain Grey-gum  Gippsland Peppermint Manna Gum  River Peppermint |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 4 | 15% | T |
| Medium Shrub | 13 | 25% | MS |
| Small Shrub | 2 | 5% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 2 | 1% | LH |
| Medium Herb | 7 | 10% | MH |
| Small or Prostrate Herb | 2 | 1% | SH |
| Large Tufted Graminoid | 4 | 10% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 4 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Ground Fern | 5 | 15% | GF |
| Tree Fern | 1 | 5% | TRF |
| Scrambler or Climber | 7 | 15% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 18: Riparian Forest - East Gippsland Lowlands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Pomaderris aspera Hazel Pomaderris  T Elaeocarpus reticulatus Blue Oliveberry  T Tristaniopsis laurina Kanooka  MS Notelaea venosa Large Mock-olive  MS Coprosma quadrifida Prickly Currant-bush  MS Prostanthera lasianthos Victorian Christmas-bush  MS Goodenia ovata Hop Goodenia  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Gonocarpus teucrioides s.l. Germander Raspwort  MH Lagenophora stipitata Common Bottle-daisy  MH Opercularia aspera Coarse Stinkweed  SH Dichondra repens Kidney-weed  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Gahnia clarkei Tall Saw-sedge  LTG Gahnia melanocarpa Black-fruit Saw-sedge  LNG Tetrarrhena juncea Forest Wire-grass  MTG Lepidosperma laterale Variable Sword-sedge  MTG Dianella caerulea var. caerulea Paroo Lily  MTG Dianella tasmanica Tasman Flax-lily  MTG Hierochloe rariflora Cane Holy-grass  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Pteridium esculentum Austral Bracken  GF Adiantum aethiopicum Common Maidenhair  GF Blechnum cartilagineum Gristle Fern  GF Calochlaena dubia Common Ground-fern  TRF Cyathea australis Rough Tree-fern  EP Hymenophyllum cupressiforme Common Filmy Fern  SC Tylophora barbata Bearded Tylophora  SC Smilax australis Austral Sarsaparilla  SC Billardiera scandens Common Apple-berry  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**  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 Lowlands 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 | | | 9 | 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 | | | 2 | 1% | 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 Lowlands 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 Lowlands 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**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Medium Shrub | 9 | 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** |  | **85%** |  |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 20: Heathy Dry Forest - East Gippsland Lowlands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  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 Lowlands 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**  30% | **Character Species**  Eucalyptus muelleriana | **Common Name**  Yellow Stringybark |
|  | Eucalyptus cypellocarpa | Mountain Grey-gum |
|  | Eucalyptus macrorhycha | Red Stringybark |
|  | Eucalyptus consideniana | Yertchuk |
|  | Eucalyptus mannifera | Brittle Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **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 | 10% | 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** |  | **85%** |  |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 21: Shrubby Dry Forest - East Gippsland Lowlands 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  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:**  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 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 Lowlands 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. 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.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus bridgesiana s.l.  Eucalyptus consideniana  Eucalyptus globulus ssp. pseudoglobulus | But But  Yertchuk Blue Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 7 | 25% | MS |
| Small Shrub | 3 | 5% | SS |
| Prostrate Shrub | 1 | 5% | PS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 11 | 20% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 6 | 20% | 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 |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 22: Grassy Dry Forest - East Gippsland Lowlands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  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 Poa sieberiana Grey Tussock-grass  MTG Dianella tasmanica Tasman Flax-lily  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 low  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 Lowlands 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 low 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 melliodora  Eucalyptus angophoroides Eucalyptus bosistoana | Yellow Box  Apple Box Coast Grey-box |

|  |  |  |  |
| --- | --- | --- | --- |
| **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 Lowlands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia melanoxylon Blackwood  MS Cassinia longifolia Shiny Cassinia  MS Cassinia aculeata Common Cassinia  SS Hibbertia obtusifolia Grey Guinea-flower  SS Tetratheca bauerifolia Heath Pink-bells  SS 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 high 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 Lowlands 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 Lowlands 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 Lowlands 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**  8 | **%Cover**  45% | **LF code**  MS |
| Small Shrub | 2 | 10% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 2 | 5% | MH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 5 | 10% | MTG |
| Scrambler or Climber | 1 | 1% | SC |
| Bryophytes/Lichens | na | 20% | BL |
| Soil Crust | na | 10% | S/C |

|  |  |  |
| --- | --- | --- |
| **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 | Hibbertia obtusifolia | Grey Guinea-flower |
| SS | Pultenaea retusa | Blunt Bush-pea |
| 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 |
| MTG | 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 Lowlands 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 Lowlands bioregion

EVC 29: Damp Forest

Description:

Grows on a wide range of geologies on well-developed generally colluvial soils on a variety of aspects. Dominated by a tall eucalypt tree layer to 30 m tall over a medium to large 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**  40% | **Character Species**  Eucalyptus sieberi | **Common Name**  Silvertop Ash |
|  | Eucalyptus globoidea | White Stringybark |
|  | Eucalyptus cypellocarpa | Mountain Grey Gum |
|  | Eucalyptus obliqua | Messmate Stringybark |
|  | Eucalyptus muelleriana | Yellow Stringybark |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 3 | 20% | T |
| Medium Shrub | 8 | 25% | MS |
| Small Shrub | 3 | 5% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 6 | 10% | MH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 4 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Ground Fern | 3 | 15% | GF |
| Tree Fern | 1 | 5% | TRF |
| Scrambler or Climber | 4 | 5% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 29: Damp Forest - East Gippsland Lowlands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Elaeocarpus reticulatus Blue Oliveberry  T Allocasuarina littoralis Black Sheoak  MS Epacris impressa Common Heath  MS Persoonia linearis Narrow-leaf Geebung  MS Goodenia ovata Hop Goodenia  MS Leucopogon lanceolatus var. lanceolatus Lance Beard-heath  SS Hibbertia empetrifolia s.l. Tangled Guinea-flower  SS Tetratheca pilosa Hairy Pink-bells  PS Platylobium formosum Handsome Flat-pea  MH Gonocarpus teucrioides s.l. Germander Raspwort  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Opercularia aspera Coarse Stinkweed  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Gahnia sieberiana Red-fruit Saw-sedge  LNG Tetrarrhena juncea Forest Wire-grass  MTG Dianella caerulea var. caerulea Paroo Lily  MTG Lepidosperma laterale Variable Sword-sedge  MTG Poa sieberiana Grey Tussock-grass  MTG Hierochloe rariflora Cane Holy-grass  GF Pteridium esculentum Austral Bracken  GF Blechnum cartilagineum Gristle Fern  GF Calochlaena dubia Common Ground-fern  TRF Cyathea australis Rough Tree-fern  EP Cassytha phaeolasia Rusty Dodder-laurel  SC Billardiera scandens Common Apple-berry  SC Clematis aristata Mountain Clematis  SC Tylophora barbata Bearded Tylophora  **Recruitment:**  Continuous  **Organic Litter:**  50 % cover  **Logs:**  30 m/0.1 ha.  **Weediness:**  There are no consistent weeds in this EVC.  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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



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

East Gippsland Lowlands 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 cypellocarpa Eucalyptus globoidea Eucalyptus viminalis | Messmate Stringybark  Mountain Grey-gum White Stringybark Manna Gum |

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 30: Wet Forest - East Gippsland Lowlands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Pomaderris aspera Hazel Pomaderris  T Acacia dealbata Siver Wattle  T Acacia melanoxylon Blackwood  T Olearia argophylla Musk Daisy-bush  MS Goodenia ovata Hop Goodenia  MS Cassinia longifolia Shiny Cassinia  MS Cassinia aculeata Common Cassinia  MS Ozothamnus ferrugineus Tree Everlasting  SS Rhytidosporum procumbens White Marianth  LH Senecio velleioides Forest Groundsel  LH Senecio glomeratus Annual Fireweed  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Gonocarpus teucrioides s.l. Germander Raspwort  MH Lagenophora stipitata Common Bottle-daisy  SH Oxalis corniculata s.l. Yellow Wood-sorrel  SH Dichondra repens Kidney-weed  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Cyperus lucidus Leafy Flat-sedge  LTG Juncus pallidus Pale Rush  LTG Gahnia radula Thatch Saw-sedge  LNG Tetrarrhena juncea Forest Wire-grass  MTG Poa australis spp. agg. Tussock Grass  MTG Dianella tasmanica Tasman Flax-lily  MTG Poa labillardierei Common Tussock-grass  MTG Lomandra confertifolia ssp. leptostachya Slender Mat-rush  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Pteridium esculentum Austral Bracken  GF Blechnum cartilagineum Gristle Fern  GF Calochlaena dubia Common Ground-fern  GF Sticherus lobatus Spreading Fan-fern  TRF Cyathea australis Rough Tree-fern  TRF Dicksonia antarctica Soft Tree-fern  SC Clematis aristata Mountain Clematis  SC Billardiera scandens Common Apple-berry  SC Comesperma volubile Love Creeper  **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 July 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 Lowlands bioregion

EVC 32: Warm Temperate Rainforest

###### Description:

Closed forest to 25 m tall occurring along gullies and river flats. 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**  Various spp. | **DBH(cm)**  70 cm | **#/ha**  20 / ha |

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover**  50% | **Character Species**  Acacia melanoxylon | **Common Name**  Blackwood |
|  | Acmena smithii | Lilly Pilly |
|  | Rapanea howittiana | Muttonwood |
|  | Acronychia oblongifolia | Yellowwood |
|  | Tristaniopsis laurina | Kanooka |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 3 | 20% | T |
| Medium Shrub | 7 | 15% | MS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 5 | 10% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Large Non-tufted Graminoid | 1 | 1% | LNG |
| Medium to Small Tufted Graminoid | 2 | 1% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 1% | MNG |
| Ground Fern | 8 | 30% | GF |
| Tree Fern | 2 | 15% | TRF |
| Epiphyte | 3 | 1% | EP |
| Scrambler or Climber | 9 | 15% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 32: Warm Temperate Rainforest - East Gippsland Lowlands 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 Notelaea venosa Large Mock-olive  MS Prostanthera lasianthos Victorian Christmas-bush  LH Sigesbeckia orientalis ssp. orientalis Indian Weed  LH Urtica incisa Scrub Nettle  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Sambucus gaudichaudiana White Elderberry  MH Stellaria flaccida Forest Starwort  MH Solanum prinophyllum Forest Nightshade  SH Pyrrosia rupestris Rock Felt-fern  SH Dichondra repens Kidney-weed  LTG Gahnia melanocarpa Black-fruit Saw-sedge  LTG Gahnia clarkei Tall Saw-sedge  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Carex appressa Tall Sedge  MTG Isolepis inundata Swamp Club-sedge  MNG Oplismenus hirtellus Australian Basket-grass  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Blechnum nudum Fishbone Water-fern  GF Blechnum patersonii ssp. patersonii Strap Water-fern  GF Blechnum cartilagineum Gristle Fern  GF Polystichum proliferum Mother Shield-fern  TRF Dicksonia antarctica Soft Tree-fern  TRF Cyathea australis Rough Tree-fern  EP Hymenophyllum cupressiforme Common Filmy Fern  EP Fieldia australis Fieldia  EP Microsorum scandens Fragrant Fern  EP Microsorum pustulatum ssp. pustulatum Kangaroo Fern  SC Smilax australis Austral Sarsaparilla  SC Pandorea pandorana Wonga Vine  SC Eustrephus latifolius Wombat Berry  SC Cissus hypoglauca Jungle Grape  **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 Conyza spp. Fleabane high low  Published by the Victorian Government Department of Sustainability and Environment February 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 Lowlands bioregion

EVC 34: Dry Rainforest

###### Description:

Open to closed non-eucalypt low forest or tall shrubland to 15 m tall. Occurs in areas of relatively low rainfall (750-900 mm per annum) and primarily confined to topographic fire refuges most often associated with extensive cliffs, gorges and rock screes on northern and western aspects. Characterised by canopy species that are rain-green (lose leaves during drought).

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

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 50% | Rapanea howittiana  Pittosporum undulatum  Brachychiton populneus ssp. populneus | Mutton-wood  Sweet Pittosporum Kurrajong |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 3 | 20% | T |
| Medium Shrub | 9 | 20% | MS |
| Large Herb | 5 | 5% | LH |
| Medium Herb | 12 | 15% | MH |
| Small or Prostrate Herb | 5 | 5% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Medium to Small Tufted Graminoid | 3 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 5% | MNG |
| Ground Fern | 5 | 10% | GF |
| Epiphyte | 2 | 1% | EP |
| Scrambler or Climber | 6 | 10% | SC |
| Bryophytes/Lichens | na | 20% | BL |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Weediness: LF Code** | **Typical Weed Species** | **Common Name** | **Invasive** | **Impact** |
| MS  LH LH LH MH MH MH MH MH MH MH MTG MTG MNG | Rubus fruticosus spp. agg.  Solanum nigrum sensu Willis (1972)  Cirsium vulgare Conyza spp. Hypochoeris radicata  Gamochaeta purpurea s.l. Cerastium glomeratum s.l. Polycarpon tetraphyllum Hypochoeris glabra Galium murale  Anagallis arvensis Vulpia bromoides  Ehrharta erecta var. erecta Aira praecox | Blackberry  Black Nightshade Spear Thistle Fleabane  Cat's Ear  Purple Cudweed  Common Mouse-ear Chickweed Four-leaved Allseed  Smooth Cat's-ear Small Goosegrass Pimpernel  Squirrel-tail Fescue Panic Veldt-grass Early Hair-grass | high  high high high high high high high high high high high high high | high  low high low low low low low low low low low high low |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 34: Dry Rainforest - East Gippsland Lowlands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia mearnsii Black Wattle  T Acacia implexa Lightwood  T Acacia falciformis Pale Hickory Wattle  T Pittosporum undulatum Sweet Pittosporum  MS Olearia lirata Snowy Daisy-bush  MS Cassinia trinerva Three-nerved Cassinia  MS Cassinia longifolia Shiny Cassinia  MS Hymenanthera dentata Tree Violet  LH Urtica incisa Scrub Nettle  LH Sigesbeckia orientalis ssp. orientalis Indian Weed  LH Senecio minimus Shrubby Fireweed  MH Solanum prinophyllum Forest Nightshade  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Sambucus gaudichaudiana White Elderberry  MH Lobelia anceps Angled Lobelia  SH Dichondra repens Kidney-weed  SH Hydrocotyle sibthorpioides Shining Pennywort  SH Pyrrosia rupestris Rock Felt-fern  SH Oxalis exilis Shady Wood-sorrel  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Lepidosperma urophorum Tailed Rapier-sedge  LTG Gahnia melanocarpa Black-fruit Saw-sedge  LTG Cymbopogon refractus Barb-wire Grass  MTG Notodanthonia longifolia Long-leaf Wallaby-grass  MTG Lepidosperma laterale Variable Sword-sedge  MTG Poa sieberiana Grey Tussock-grass  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Echinopogon ovatus Common Hedgehog-grass  MNG Oplismenus hirtellus Australian Basket-grass  MNG Entolasia marginata Bordered Panic  GF Pteris tremula Tender Brake  GF Asplenium flabellifolium Necklace Fern  GF Doodia australis Common Rasp-fern  GF Cheilanthes austrotenuifolia Green Rock-fern  EP Cassytha phaeolasia Rusty Dodder-laurel  SC Eustrephus latifolius Wombat Berry  SC Celastrus australis Staff Climber  SC Geitnoplesium cymosum Scrambling Lily  SC Marsdenia rostrata Milk Vine  **Recruitment:**  Continuous  **Organic Litter:**  50 % cover  **Logs:**  10 m/0.1 ha.  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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



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

East Gippsland Lowlands 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 that may carry a variety of eucalypts, 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% | r Eucalyptus bosistoana  Eucalyptus muelleriana | Coast Grey-box  Yellow Stringybark |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 3 | 10% | T |
| Medium Shrub | 9 | 20% | MS |
| Small Shrub | 3 | 5% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 17 | 20% | MH |
| Small or Prostrate Herb | 4 | 5% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Large Non-tufted Graminoid | 2 | 5% | LNG |
| Medium to Small Tufted Graminoid | 7 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 4 | 15% | MNG |
| Ground Fern | 3 | 5% | GF |
| Scrambler or Climber | 6 | 5% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 47: Valley Grassy Forest - East Gippsland Lowlands bioregion | |
|  | **LF Code Species typical of at least part of EVC rang Common Name**  T Acacia mearnsii Black Wattle  T Allocasuarina littoralis Black Sheoak  MS Leucopogon lanceolatus var. lanceolatus Lance Beard-heath  MS Epacris impressa Common Heath  MS Cassinia longifolia Shiny Cassinia  MS Kunzea ericoides Burgan  SS Tetratheca pilosa Hairy Pink-bells  SS Pimelea humilis Common Rice-flower  SS Pultenaea retusa Blunt Bush-pea  SS Lissanthe strigosa ssp. subulata Peach Heath  PS Astroloma humifusum Cranberry Heath  PS Acrotriche serrulata Honey-pots  LH Solanum pungetium Eastern Nightshade  LH Urtica incisa Scrub Nettle  LH Senecio tenuiflorus Slender Fireweed  LH Wahlenbergia gracilis s.l. Sprawling Bluebell  MH Opercularia aspera Coarse Stinkweed  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Euchiton collinus s.s. Creeping Cudweed  SH Galium propinquum Maori Bedstraw  SH Dichondra repens Kidney-weed  SH Desmodium gunnii Southern Tick-trefoil  SH Hypericum japonicum Matted St John's Wort  LTG Lomandra longifolia ssp. exilis Cluster-headed Mat-rush  LNG Gahnia radula Thatch Saw-sedge  LNG Lepidosperma longitudinale Pithy Sword-sedge  MTG Poa sieberiana Grey Tussock-grass  MTG Lepidosperma laterale Variable Sword-sedge  MTG Lomandra filiformis Wattle Mat-rush  MTG Dianella caerulea var. caerulea Paroo Lily  MNG Poa tenera Slender Tussock-grass  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Echinopogon ovatus Common Hedgehog-grass  MNG Oplismenus hirtellus Australian Basket-grass  GF Adiantum aethiopicum Common Maidenhair  GF Pteridium esculentum Austral Bracken  GF Doodia aspera Prickly Rasp-fern  GF Pellaea falcata s.l. Sickle Fern  TRF Dicksonia antarctica Soft Tree-fern  EP Hymenophyllum cupressiforme Common Filmy Fern  SC Comesperma volubile Love Creeper  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**  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 Lowlands bioregion

EVC 48: Heathy Woodland

Description:

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

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

Tree Canopy Cover:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  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 48: Heathy Woodland – East Gippsland Lowlands 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 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 Lowlands bioregion

EVC 53: Swamp Scrub

Description:

Closed scrub to 8 m tall at low elevations on alluvial deposits along streams or on poorly drained sites with higher nutrient availability. The EVC is dominated by Swamp Paperbark Melaleuca ericifolia (or sometimes Woolly Tea-tree Leptospermum lanigerum) which often forms a dense thicket, out-competing other species. Occasional emergent eucalypts may be present. Where light penetrates to ground level, a moss/lichen/liverwort or herbaceous ground cover is often present. Dry variants have a grassy/herbaceous ground layer.

Canopy Cover:

|  |  |  |
| --- | --- | --- |
| %cover | Character Species | Common Name |
| 50% | Leptospermum lanigerum  Melaleuca ericifolia | Woolly Tea-tree  Swamp Paperbark |

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

|  |  |  |
| --- | --- | --- |
| LF Code  MS | Species typical of at least part of EVC range  Coprosma quadrifida | Common Name  Prickly Currant-bush |
| MS | Leptospermum continentale | Prickly Tea-tree |
| LH | Lycopus australis | Australian Gipsywort |
| LH | Lythrum salicaria | Purple Loosestrife |
| LH | Persicaria praetermissa | Spotted Knotweed |
| MH | Hydrocotyle pterocarpa | Wing Pennywort |
| MH | Stellaria angustifolia | Swamp Starwort |
| MH | Lobelia anceps | Angled Lobelia |
| SH | Crassula helmsii | Swamp Crassula |
| LTG | Juncus procerus | Tall Rush |
| LTG | Poa labillardierei | Common Tussock-grass |
| LNG | Gahnia radula | Thatch Saw-sedge |
| LNG | Phragmites australis | Common Reed |
| LNG | Baumea rubiginosa s.l. | Soft Twig-rush |
| MTG | Triglochin procerum s.l. | Water Ribbons |
| MTG | Juncus gregiflorus | Green Rush |
| MNG | Eleocharis acuta | Common Spike-sedge |
| GF | Blechnum cartilagineum | Gristle Fern |
| SC | Calystegia sepium | Large Bindweed |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 53: Swamp Scrub – East Gippsland Lowlands bioregion | |
|  | Recruitment:  Continuous  Organic Litter:  40 % cover  Weediness:  LF Code Typical Weed Species Common Name Invasive Impact  MH Hypochoeris radicata Cat's Ear high low LNG Holcus lanatus Yorkshire Fog high high  Published by the Victorian Government Department of Sustainability and Environment November 2007  © The State of Victoria Department of Sustainability and Environment 2007  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

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

East Gippsland Lowlands Bioregion

EVC 53\_62: Estuarine Swamp Scrub

###### Description:

Closed scrub to 6 m tall growing on the edge of estuarine waterbodies such as creeks, rivers and lagoons with intermediate salinity and poor drainage conditions. Dominated by Swamp Paperbark Melaleuca ericifolia with a halophytic (succulent) ground layer dominated by graminoids and herbs. Often occurs in close association with Estuarine Wetland.

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 50% | *Melaleuca ericifolia* | Swamp Paperbark |

**Understorey: Lifeform** Medium Shrub Medium Herb

Small or Prostrate Herb

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

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

1. 10% MS
2. 20% MH

2 5% SH

2 10% MTG

2 15% MNG

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  *Atriplex cinerea* | **Common Name**  Coast Saltbush |
| MS | *Rhagodia candolleana subsp. candolleana* | Seaberry Saltbush |
| MH | *Chenopodium glaucum* | Glaucous Goosefoot |
| MH | *Samolus repens* | Creeping Brookweed |
| MH | *Sarcocornia quinqueflora* | Beaded Glasswort |
| SH | *Apium prostratum subsp. prostratum* | Sea Celery |
| SH | *Selliera radicans* | Shiny Swamp-mat |
| MTG | *Poa labillardierei* | Common Tussock-grass |
| MTG | *Poa poiformis* | Coast Tussock-grass |
| MNG | *Distichlis distichophylla* | Australian Salt-grass |
| MNG | *Ficinia nodosa* | Knobby Club-sedge |

###### Recruitment:

Continuous.

###### Organic Litter:

20 % cover

###### Weediness:

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

LNG

*Holcus lanatus*

Yorkshire Fog

high high



Ecological Vegetation Class Bioregion Benchmark

### EVC 53\_62: Estuarine Swamp Scrub

###### Weediness:

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

MH *Hypochoeris radicata*

Cat's Ear

high low

Published by the Victorian Government Department of Sustainability and Environment

© The State of Victoria Government Department of Sustainability and Environment 2004

This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-comercial is authorised, on condition that:

* the copyright owner is acknowledged;
* no official connection is claimed;
* the material is made available without charge or cost; and
* the material is not subject to inaccurate, misleading or derogatory treatment.

Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson St, East Melbourne, Victoria 3002.

For more information contact: Customer Service Centre, 136 186

This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss, of other consequences which may arise from you relying on any information in this publication.

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



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

East Gippsland Lowlands bioregion

EVC 55: Plains Grassy Woodland

Description:

An open, eucalypt woodland to 15 m tall occurring on a number of geologies and soil types. Occupies poorly drained, fertile soils on flat or gently undulating plains at low elevations. The understorey consists of a few sparse shrubs over a species-rich grassy and herbaceous ground layer.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 20% | Eucalyptus tereticornis ssp. mediana | Gippsland Red-gum |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Allocasuarina littoralis | **Common Name**  Black Sheoak |
| MS | Kunzea ericoides | Burgan |
| SS | Pimelea humilis | Common Rice-flower |
| PS | Bossiaea prostrata | Creeping Bossiaea |
| MH | Hypericum gramineum | Small St John's Wort |
| MH | Oxalis perennans | Grassland Wood-sorrel |
| SH | Dichondra repens | Kidney-weed |
| SH | Poranthera microphylla | Small Poranthera |
| LTG | Austrostipa rudis | Veined Spear-grass |
| LNG | Gahnia radula | Thatch Saw-sedge |
| MTG | Themeda triandra | Kangaroo Grass |
| MTG | Carex breviculmis | Common Grass-sedge |
| MTG | Lomandra filiformis | Wattle Mat-rush |
| MTG | Schoenus apogon | Common Bog-sedge |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 55: Plains Grassy Woodland – East Gippsland Lowlands bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  10 % cover  **Logs:**  10 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Plantago lanceolata Ribwort high low  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  MNG Romulea rosea Onion Grass high low  MNG Briza maxima Large Quaking-grass high low  MNG Briza minor Lesser Quaking-grass high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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



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

East Gippsland Lowlands 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 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** |
| 20% | Brachychiton populneus ssp. populneus  Pittosporum undulatum | Kurrajong  Sweet Pittosporum |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  MS |  | **Species typical of at least part of EVC range**  Cassinia trinerva | **Common Name**  Three-nerved Cassinia |
| MS  MS MS SS LH LH LH MH MH MH MH SH SH LTG LTG MTG MTG MTG MTG MNG MNG GF GF SC SC SC | k  k | Kunzea ericoides  Hymenanthera dentata s.l. Olearia phlogopappa  Leucopogon juniperinus Plectranthus parviflorus  Stypandra glauca Solanum pungetium  Cynoglossum australe Hypericum gramineum  Galium gaudichaudii  Senecio hispidulus var. dissectus Hydrocotyle laxiflora  Dichondra repens  Gahnia melanocarpa Carex longebrachiata Lepidosperma laterale  Notodanthonia longifolia Elymus multiflorus  Carex breviculmis  Microlaena stipoides var. stipoides Entolasia marginata  Pellaea falcata s.l.  Cheilanthes austrotenuifolia Marsdenia rostrata  Pandorea pandorana Glycine clandestina | Burgan  Tree Violet  Dusty Daisy-bush  Long-flower Beard-heath Cockspur Flower Nodding Blue-lily Eastern Nightshade  Australian Hound's-tongue Small St John's Wort Rough Bedstraw  Rough Fireweed Stinking Pennywort  Kidney-weed  Black-fruit Saw-sedge Bergalia Tussock Variable Sword-sedge Long-leaf Wallaby-grass  Short-awned Wheat-grass Common Grass-sedge  Weeping Grass  Bordered Panic Sickle Fern Green Rock-fern Milk Vine Wonga Vine Twining Glycine |
| SC |  | Clematis glycinoides var. glycinoides | Forest Clematis |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 82: Riverine Escarpment Scrub - East Gippsland Lowlands bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Logs:**  5 m/0.1 ha. (note: large log class does not apply)  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Lycium ferocissimum African Box-thorn low high MS Rubus fruticosus spp. agg. Blackberry high high LH Solanum nigrum sensu Willis (1972) Black Nightshade high low LH Cirsium vulgare Spear Thistle high low  MH Euphorbia peplus Petty Spurge high low MH Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low MH Hypochoeris radicata Cat's Ear high low  MH Euphorbia lathyrus Caper Spurge high high  SC Galium aparine Cleavers high low  LH Conyza spp. Fleabane 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 Lowlands bioregion

EVC 133: Limestone Pomaderris Shrubland

Description:

Shrubland to 8 m tall occurring on exposed northern or western aspects associated with limestone cliffs and lake shores or rivers with an understorey dominated by medium shrubs. It is found at low altitudes of between 10-30 m above sea level and receives a moderate rainfall of approximately 700 mm per annum.

Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 10% | Allocasuarina verticillata  Banksia marginata | Drooping Sheoak  Silver Banksia |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Understorey Tree or Large Shrub | **#Spp**  2 | **%Cover**  10% | **LF code**  T |
| Medium Shrub | 7 | 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 | 5% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  MS |  | **Species typical of at least part of EVC range**  Dodonaea viscosa | **Common Name**  Sticky Hop-bush |
| MS |  | Myoporum insulare | Boobialla |
| MS | R r | Pomaderris oraria ssp. calcicola | Limestone Pomaderris |
| MS | R r | Pomaderris oraria | Bassian Pomaderris |
| SS |  | Rhagodia candolleana ssp. candolleana | Sea-berry Saltbush |
| SS |  | Correa reflexa | Common Correa |
| PS |  | Astroloma humifusum | Cranberry Heath |
| LH |  | Wahlenbergia gracilis s.l. | Sprawling Bluebell |
| LH |  | Senecio quadridentatus | Cotton Fireweed |
| 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 |  | 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 |  | Elymus scaber var. scaber | Common Wheat-grass |
| MTG |  | Dianella revoluta s.l. | Black-anther Flax-lily |
| MTG |  | Notodanthonia longifolia | Long-leaf Wallaby-grass |
| GF |  | Pleurosorus rutifolius s.l. | Blanket Fern |
| SC |  | Clematis microphylla | Small-leaved Clematis |
| SC |  | Tetragonia implexicoma | Bower Spinach |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 133: Limestone Pomaderris Shrubland - East Gippsland Lowlands bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **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 Lowlands 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 a number of willowy shrubs that can withstand flooding while mature woody vines are generally absent as are tree-ferns, these life-forms being swept away during floods.

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

###### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 50% | Tristaniopsis laurina  Acacia melanoxylon | Kanooka  Blackwood |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 4 | 20% | T |
| Medium Shrub | 12 | 30% | MS |
| Small Shrub | 2 | 5% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 6 | 10% | MH |
| Small or Prostrate Herb | 2 | 1% | SH |
| Large Tufted Graminoid | 4 | 15% | LTG |
| Large Non-tufted Graminoid | 1 | 1% | LNG |
| Medium to Small Tufted Graminoid | 4 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Ground Fern | 6 | 20% | GF |
| Tree Fern | 1 | 1% | TRF |
| Epiphyte | 2 | 5% | EP |
| Scrambler or Climber | 8 | 10% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 135: Gallery Rainforest - East Gippsland Lowlands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Elaeocarpus reticulatus Blue Oliveberry  T Rapanea howittiana Mutton-wood  MS Notelaea venosa Large Mock-olive  MS Coprosma quadrifida Prickly Currant-bush  MS Lomatia myricoides River Lomatia  MS Leucopogon lanceolatus var. lanceolatus Lance Beard-heath  PS Platylobium formosum Handsome Flat-pea  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Geranium potentilloides Cinquefoil Cranesbill  MH Gratiola peruviana Austral Brooklime  MH Opercularia aspera Coarse Stinkweed  SH Dichondra repens Kidney-weed  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Gahnia sieberiana Red-fruit Saw-sedge  LTG Gahnia clarkei Tall Saw-sedge  LNG Tetrarrhena juncea Forest Wire-grass  MTG Dianella tasmanica Tasman Flax-lily  MTG Dianella caerulea var. caerulea Paroo Lily  MTG Isolepis inundata Swamp Club-sedge  MTG Poa sieberiana Grey Tussock-grass  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Oplismenus hirtellus Australian Basket-grass  GF Blechnum nudum Fishbone Water-fern  GF Adiantum aethiopicum Common Maidenhair  GF Calochlaena dubia Common Ground-fern  GF Blechnum cartilagineum Gristle Fern  TRF Cyathea australis Rough Tree-fern  EP Hymenophyllum cupressiforme Common Filmy Fern  SC Eustrephus latifolius Wombat Berry  SC Smilax australis Austral Sarsaparilla  SC Tylophora barbata Bearded Tylophora  SC Clematis aristata Mountain Clematis  **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Conyza spp. Fleabane high low  MH Prunella vulgaris Self-heal 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 Lowlands bioregion

EVC 141: Sandy Flood Scrub

Description:

Structurally dominated by medium to large shrubs to 8 m tall with occasional eucalypt emergents. The understorey may contain a range of shrubs, grasses/sedges and herbs/ferns depending on location and period of inundation. Occupies alluvial terraces with coarse to fine sandy soils of permanent streams and rivers.

Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Leptospermum continentale  Kunzea ericoides Pomaderris aspera  Acacia mearnsii | Prickly Tea-tree  Burgan  Hazel Pomaderris Black Wattle |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** Medium Shrub | **#Spp**  3 | **%Cover**  15% | **LF code**  MS |
| Small Shrub | 1 | 1% | SS |
| Medium Herb | 2 | 5% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Tufted Graminoid | 3 | 15% | LTG |
| Large Non-tufted Graminoid | 1 | 10% | 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 | 20% | BL |
| **Total understorey projective foliage cover** |  | **70%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Monotoca scoparia | **Common Name**  Prickly Broom-heath |
| MS | Banksia marginata | Silver Banksia |
| MS | Callistemon citrinus | Crimson Bottlebrush |
| SS | Hibbertia fasciculata var. prostrata | Bundled Guinea-flower |
| MH | Phyllanthus hirtellus | Thyme Spurge |
| LTG | Lomandra longifolia | Spiny-headed Mat-rush |
| LTG | Poa labillardierei | Common Tussock-grass |
| LTG | Carex appressa | Tall Sedge |
| LNG | Lepidosperma longitudinale | Pithy Sword-sedge |
| MNG | Caustis flexuosa | Curly Wig |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| TTG | Centrolepis strigosa ssp. strigosa | Hairy Centrolepis |
| GF | Pteridium esculentum | Austral Bracken |
| GF | Adiantum aethiopicum | Common Maidenhair |

**Recruitment:**

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

Organic Litter:

10 % 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 141: Sandy Flood Scrub – East Gippsland Lowlands 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 Lowlands bioregion

EVC 151: Plains Grassy Forest

Description:

Open forest to 20 m tall often above a heathy shrub layer and a diverse grassy, sedgy and herbaceous ground layer. Occurs on lowland plains and old river terraces made up of gravelly sandy clays.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover**  30% | **Character Species**  Eucalyptus muelleriana | **Common Name**  Yellow Stringybark |
|  | Eucalyptus bridgesiana s.l. | But But |
|  | Eucalyptus polyanthemos | Red Box |
|  | Eucalyptus macrorhyncha | Red Stringybark |
|  | Eucalyptus botryoides | Southern Mahogany |
|  | Eucalyptus globoidea | White Stringybark |

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 151: Plains Grassy Forest – East Gippsland Lowlands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Allocasuarina littoralis Black Sheoak  T Acacia mearnsii Black Wattle  T Acacia implexa Lightwood  T Exocarpos cupressiformis Cherry Ballart  MS Leptospermum continentale Prickly Tea-tree  MS Banksia marginata Silver Banksia  MS Kunzea ericoides Burgan  MS Melaleuca parvistaminea Rough-barked Honey-myrtle  SS Pimelea humilis Common Rice-flower  SS Hibbertia riparia Erect Guinea-flower  SS Platylobium obtusangulum Common Flat-pea  SS Phyllanthus hirtellus Thyme Spurge  PS Acrotriche serrulata Honey-pots  PS Bossiaea prostrata Creeping Bossiaea  PS Astroloma humifusum Cranberry Heath  LH Tricoryne elatior Yellow Rush-lily  LH Wahlenbergia gracilis s.l. Sprawling Bluebell  MH Poranthera microphylla Small Poranthera  MH Hypericum gramineum Small St John's Wort  MH Hydrocotyle hirta Hairy Pennywort  MH Gonocarpus tetragynus Common Raspwort  SH Dichondra repens Kidney-weed  SH Oxalis corniculata s.l. Yellow Wood-sorrel  SH Opercularia varia Variable Stinkweed  LTG Xanthorrhoea minor ssp. lutea Small Grass-tree  LTG Lomandra longifolia Spiny-headed Mat-rush  LNG Gahnia radula Thatch Saw-sedge  MTG Themeda triandra Kangaroo Grass  MTG Poa australis spp. agg. Tussock Grass  MTG Lomandra filiformis Wattle Mat-rush  MTG Lepidosperma laterale Variable Sword-sedge  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Entolasia marginata Bordered Panic  GF Pteridium esculentum Austral Bracken  **Recruitment:**  Continuous  **Organic Litter:**  20 % 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 Centaurium erythraea Common Centaury high low  Published by the Victorian Government Department of Sustainability and Environment June 2008  © 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 Lowlands bioregion

EVC 169: Dry Valley Forest

Description:

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

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus baueriana | Blue Box |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 4 | 15% | T |
| Medium Shrub | 4 | 40% | MS |
| Medium Herb | 9 | 10% | MH |
| Small or Prostrate Herb | 4 | 5% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 1 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 10% | MNG |
| Ground Fern | 3 | 10% | 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 melanoxylon | **Common Name**  Blackwood |
| T | Exocarpos cupressiformis | Cherry Ballart |
| T | Pomaderris aspera | Hazel Pomaderris |
| MS | Olearia lirata | Snowy Daisy-bush |
| MS | Melaleuca ericifolia | Swamp Paperbark |
| MS | Correa reflexa | Common Correa |
| MS | Coprosma quadrifida | Prickly Currant-bush |
| MH | Hydrocotyle hirta | Hairy Pennywort |
| MH | Geranium potentilloides | Cinquefoil Cranesbill |
| MH | Galium gaudichaudii | Rough Bedstraw |
| SH | Opercularia hispida | Hairy Stinkweed |
| SH | Oxalis corniculata s.l. | Yellow Wood-sorrel |
| SH | Hydrocotyle tripartita | Slender Pennywort |
| SH | Dichondra repens | Kidney-weed |
| LTG | Gahnia clarkei | Tall Saw-sedge |
| MTG | Lepidosperma laterale | Variable Sword-sedge |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| MNG | Luzula campestris spp. agg. | Field Woodrush |
| GF | Pteridium esculentum | Austral Bracken |
| GF | Pellaea falcata s.l. | Sickle Fern |
| GF | Asplenium flabellifolium | Necklace Fern |
| SC | Smilax australis | Austral Sarsaparilla |
| SC | Eustrephus latifolius | Wombat Berry |
| SC | Clematis aristata | Mountain Clematis |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 169: Dry Valley Forest - East Gippsland Lowlands bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Cirsium vulgare Spear Thistle high high MH Cerastium glomeratum s.l. Common Mouse-ear Chickweed high low MH Hypochoeris radicata Cat's Ear high low MH Polycarpon tetraphyllum Four-leaved Allseed 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 Lowlands 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** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | 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 Lowlands 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 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 Lowlands 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 | Yellow Box  Brittle Gum |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia mearnsii | **Common Name**  Black Wattle |
| T | Acacia melanoxylon | Blackwood |
| 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 |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 175.62: Limestone Grassy Woodland – East Gippsland Lowlands 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 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 Lowlands bioregion

EVC 177: Valley Slopes Dry Forest

Description:

Open eucalypt forest to 20 m tall. Occurs on steep, eroding slopes. 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** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | 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 Lowlands 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 Lowlands bioregion

EVC 191: Riparian Scrub

Description:

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

Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 60% | Melaleuca squarrosa  Leptospermnum continentale | Scented Paperbark  Prickly Tea-tree |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** Medium Shrub | **#Spp**  3 | **%Cover**  10% | **LF code**  MS |
| Small Shrub | 1 | 1% | SS |
| Medium Herb | 1 | 1% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Tufted Graminoid | 1 | 10% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 1 | 1% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 15% | MNG |
| Ground Fern | 1 | 5% | GF |
| Scrambler or Climber | 2 | 15% | SC |
| Bryophytes/Lichens | na | 20% | BL |
| **Total understorey projective foliage cover** |  | **80%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Coprosma quadrifida | **Common Name**  Prickly Currant-bush |
| MS | Ozothamnus ferrugineus | Tree Everlasting |
| MS | Acacia verticillata | Prickly Moses |
| MS | Ozothamnus rosmarinifolius | Rosemary Everlastiong |
| SS | Amperea xiphoclada var. xiphoclada | Broom Spurge |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Selaginella uliginosa | Swamp Selaginella |
| LTG | Gahnia sieberiana | Red-fruit Saw-sedge |
| LNG | Lepidosperma longitudinale | Pithy Sword-sedge |
| MNG | Baumea tetragona | Square Twig-rush |
| MNG | Schoenus brevifolius | Zig-zag Bog-sedge |
| MNG | Empodisma minus | Spreading Rope-rush |
| GF | Pteridium esculentum | Austral Bracken |
| SC | Gleichenia microphylla | Scrambling Coral-fern |
| SC | Billardiera scandens | Common Apple-berry |
| SC | Cassytha glabella | Slender Dodder-laurel |

**Recruitment:**

Continuous

Organic Litter:

40 % cover

Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 191: Riparian Scrub – East Gippsland Lowlands 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 Lowlands bioregion

EVC 316: Shrubby Damp Forest

Description:

Grows in gullies and on protected slopes on relatively skeletal but fertile sedimentary soils. Eucalypt forest to 30 m tall with a dense mid stratum 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 obliqua | Mountain Grey-gum  Messmate Stringybark |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 3 | 20% | T |
| Medium Shrub | 8 | 30% | MS |
| Small Shrub | 2 | 5% | SS |
| Large Herb | 4 | 10% | LH |
| Medium Herb | 9 | 20% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Tufted Graminoid | 2 | 10% | LTG |
| Large Non-tufted Graminoid | 1 | 1% | LNG |
| Medium to Small Tufted Graminoid | 4 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Ground Fern | 2 | 15% | GF |
| Tree Fern | 1 | 1% | TRF |
| Scrambler or Climber | 2 | 5% | SC |
| Bryophytes/Lichens | na | 20% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 316: Shrubby Damp Forest - East Gippsland Lowlands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia dealbata Silver Wattle  T Pomaderris aspera Hazel Pomaderris  MS Cassinia longifolia Shiny Cassinia  MS Coprosma quadrifida Prickly Currant-bush  MS Pimelea axiflora Bootlace Bush  MS Olearia lirata Snowy Daisy-bush  SS Hibbertia obtusifolia Grey Guinea-flower  LH Stypandra glauca Nodding Blue-lily  LH Senecio quadridentatus Cotton Fireweed  LH Senecio linearifolius Fireweed Groundsel  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Lagenophora stipitata Common Bottle-daisy  MH Gonocarpus tetragynus Common Raspwort  LTG Lomandra longifolia Spiny-headed Mat-rush  LNG Tetrarrhena juncea Forest Wire-grass  MTG Dianella tasmanica Tasman Flax-lily  MTG Poa australis spp. agg. Tussock Grass  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Pteridium esculentum Austral Bracken  GF Polystichum proliferum Mother Shield-fern  SC Clematis aristata Mountain Clematis  SC Billardiera scandens Common Apple-berry  **Recruitment:**  Continuous  **Organic Litter:**  50 % cover  **Logs:**  30 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low 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/)



EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 863: Floodplain Reedbed

Description:

A closed to open grassland to 2–3 m tall, dominated by Common Reed. Small aquatic and semi-aquatic species occur amongst the reeds. It occurs on swamps on river plains, especially the lower reaches of the floodplain. Soils are Quaternary stream alluvium with floodplain and low level terrace deposits consisting of silt, clay and peat. Swamp Paperbark frequently fringes the margins of these reed beds.

|  |  |  |  |
| --- | --- | --- | --- |
| Life Forms: Life form | #Spp | %Cover | LF code |
| Medium Shrub | 1 | 5% | MS |
| Large Herb | 2 | 10% | LH |
| Medium Herb | 2 | 5% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Medium to Small Tufted Graminoid | 1 | 5% | MTG |
| Large Non-tufted Graminoid | 2 | 30% | LNG |
| Scrambler or Climber | 1 | 1% | SC |
| Total understorey projective foliage cover |  | 60% |  |

|  |  |  |
| --- | --- | --- |
| LF Code  MS | Species typical of at least part of EVC range  Solanum aviculare | Common Name  Kangaroo Apple |
| MH | Myriophyllum crispatum | Upright Water-milfoil |
| LH | Lycopus australis | Australian Gipsywort |
| LH | Urtica incisa | Scrub Nettle |
| SH | Mimulus repens | Creeping Monkey-flower |
| LNG | Phragmites australis | Common Reed |
| MTG | Triglochin procerum s.l. | Water Ribbons |
| SC | Calystegia sepium | Large Bindweed |

Recruitment:

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

Organic Litter:

10% cover

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Weediness: |  | | | |
| LF Code  LH MH | Typical Weed Species  Aster subulatus Cotula coronopifolia | Common Name  Aster-weed Water Buttons | Invasive  high high | Impact  low high |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 863: Floodplain Reedbed – East Gippsland Lowlands bioregion | |
|  | Published by the Victorian Government Department of Sustainability and Environment November 2007  © The State of Victoria Department of Sustainability and Environment 2007  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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



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

East Gippsland Lowlands bioregion

EVC 877: Lowland Herb-rich Forest

Description:

Primarily occurs in gullies and along lower slopes close to minor drainage lines. 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 layer is dominated by a dense cover of grasses and a high diversity of tussock-forming graminoids and herbs.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus cypellocarpa  Eucalyptus globoidea Eucalyptus polyanthemos | Mountain Grey-gum  White Stringybark Red Box |

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 877: Lowland Herb-rich Forest - East Gippsland Lowlands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia mearnsii Black Wattle  MS r Zieria smithii Sandfly Zieria  MS Kunzea ericoides Burgan  MS Cassinia longifolia Shiny Cassinia  MS Cassinia aculeata Common Cassinia  MS Melaleuca parvistaminea Rough-barked Honey-myrtle  SS Pimelea humilis Common Rice-flower  PS Bossiaea prostrata Creeping Bossiaea  LH Stypandra glauca Nodding Blue-lily  LH Senecio tenuiflorus Slender Fireweed  MH Hypericum gramineum Small St John's Wort  MH Lagenophora stipitata Common Bottle-daisy  MH Pterostylis concinna Trim Greenhood  SH Opercularia varia Variable Stinkweed  SH Hydrocotyle laxiflora Stinking Pennywort  SH Oxalis exilis Shady Wood-sorrel  SH Dichondra repens Kidney-weed  LNG Gahnia radula Thatch Saw-sedge  MTG Luzula meridionalis Common Woodrush  MTG Lomandra filiformis ssp. coriacea Wattle Mat-rush  MTG Poa sieberiana Grey Tussock-grass  MTG Dianella caerulea var. caerulea Paroo Lily  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Entolasia marginata Bordered Panic  SC Comesperma volubile Love Creeper  **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Rubus fruticosus spp. agg. Blackberry high high LH Conyza bonariensis Flaxleaf Fleabane high low  LH Centaurium tenuiflorum Slender Centaury high low  MH Hypochoeris radicata Cat's Ear high low  MH Prunella vulgaris Self-heal high low MH Cerastium glomeratum s.l. Common Mouse-ear Chickweed high low  SH Trifolium repens var. repens White Clover 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 Lowlands bioregion

EVC 953: Estuarine Scrub

Description:

Closed scrub to 6 m tall growing on the edge of estuarine waterbodies such as creeks, rivers and lagoons with intermediate salinity and poor drainage conditions. Dominated by Swamp Paperbark Melaleuca ericifolia with a halophytic (succulent) ground layer dominated by graminoids and herbs. Often occurs in close association with Estuarine Wetland.

Canopy Cover:

|  |  |  |
| --- | --- | --- |
| %cover | Character Species | Common Name |
| 50% | Melaleuca ericifolia | Swamp Paperbark |

|  |  |  |  |
| --- | --- | --- | --- |
| Understorey: Life form | #Spp | %Cover | LF code |
| Medium Shrub | 2 | 10% | MS |
| Medium Herb | 3 | 20% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Medium to Small Tufted Graminoid | 2 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 15% | MNG |
| Total understorey projective foliage cover |  | 55% |  |

|  |  |  |
| --- | --- | --- |
| LF Code  MS | Species typical of at least part of EVC range  Rhagodia candolleana ssp. candolleana | Common Name  Seaberry Saltbush |
| MS | Atriplex cinerea | Coast Saltbush |
| MH | Samolus repens | Creeping Brookweed |
| MH | Chenopodium glaucum | Glaucous Goosefoot |
| MH | Sarcocornia quinqueflora | Beaded Glasswort |
| SH | Selliera radicans | Shiny Swamp-mat |
| SH | Apium prostratum ssp. prostratum | Sea Celery |
| MTG | Poa poiformis | Blue Tussock-grass |
| MTG | Poa labillardierei | Common Tussock-grass |
| MNG | Ficinia nodosa | Knobby Club-sedge |
| MNG | Distichlis distichophylla | Australian Salt-grass |

Recruitment:

Continuous

Organic Litter:

20 % cover

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Weediness: |  | | | |
| LF Code  MH LNG | Typical Weed Species Hypochoeris radicata Holcus lanatus | Common Name  Cat's Ear Yorkshire Fog | Invasive  high high | Impact  low high |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
|  | |
|  |  |
|  | Published by the Victorian Government Department of Sustainability and Environment November 2007  © The State of Victoria Department of Sustainability and Environment 2007  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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