

### EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 3: Damp Sands Herb-rich Woodland

Description:

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

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus baxteri s.s.  Eucalyptus viminalis ssp. cygnetensis | Brown Stringybark  Manna Gum |

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

Ecological Vegetation Class bioregion benchmark

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| EVC 3: Damp Sands Herb-rich Woodland - Glenelg Plain bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia melanoxylon Blackwood  MS Banksia marginata Silver Banksia  MS Leucopogon parviflorus Coast Beard-heath  MS Spyridium parvifolium Dusty Miller  MS Leucopogon lanceolatus var. lanceolatus Lance Beard-heath  SS Hibbertia sericea s.l. Silky Guinea-flower  SS Amperea xiphoclada var. xiphoclada Broom Spurge  SS Pimelea humilis Common Rice-flower  PS Astroloma humifusum Cranberry Heath  PS Acrotriche serrulata Honey-pots  PS r Boronia nana var. nana Dwarf Boronia  LH Senecio tenuiflorus Slender Fireweed  LH Senecio glomeratus Annual Fireweed  MH Veronica calycina Hairy Speedwell  MH Lagenophora stipitata Common Bottle-daisy  MH Brunonia australis Blue Pincushion  SH Hydrocotyle laxiflora Stinking Pennywort  SH Dichondra repens Kidney-weed  SH Opercularia varia Variable Stinkweed  SH Kennedia prostrata Running Postman  LTG Xanthorrhoea minor ssp. lutea Small Grass-tree  LTG Deyeuxia quadriseta Reed Bent-grass  MTG Dianella revoluta s.s. Black-anther Flax-lily  MTG Luzula meridionalis Common Woodrush  MTG Dichelachne crinita Long-hair Plume-grass  MTG Lomandra nana Dwarf Mat-rush  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Ficinia nodosa Knobby Club-sedge  TTG Centrolepis strigosa ssp. strigosa Hairy Centrolepis  GF Pteridium esculentum Austral Bracken  SC Billardiera scandens Common Apple-berry  SC Galium australe Tangled Bedstraw  **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  MH Centaurium erythraea Common Centaury low low  LNG Holcus lanatus Yorkshire Fog high high  MNG Aira elegantissima Delicate Hair-grass high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 6: Sand Heathland

Description:

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

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| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 7 | 30% | MS |
| Small Shrub | 8 | 20% | SS |
| Prostrate Shrub | 3 | 5% | PS |
| Medium Herb | 5 | 10% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 4 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 20% | MNG |
| Scrambler or Climber | 2 | 5% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

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| **LF Code**  MS | **Species typical of at least part of EVC range**  Banksia marginata | **Common Name**  Silver Banksia |
| MS | Leptospermum myrsinoides | Heath Tea-tree |
| MS | Epacris impressa | Common Heath |
| MS | Leptospermum continentale | Prickly Tea-tree |
| SS | Dillwynia glaberrima | Smooth Parrot-pea |
| SS | Isopogon ceratophyllus | Horny Cone-bush |
| SS | Hibbertia sericea s.l. | Silky Guinea-flower |
| SS | Boronia pilosa | Hairy Boronia |
| PS | Acrotriche serrulata | Honey-pots |
| PS | Astroloma humifusum | Cranberry Heath |
| PS | Xanthosia dissecta s.l. | Cut-leaf Xanthosia |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Burchardia umbellata | Milkmaids |
| MH | Stackhousia monogyna | Creamy Stackhousia |
| MH | Chamaescilla corymbosa var. corymbosa | Blue Stars |
| SH | Drosera whittakeri ssp. aberrans | Scented Sundew |
| SH | Opercularia varia | Variable Stinkweed |
| LTG | Xanthorrhoea australis | Austral Grass-tree |
| MTG | Patersonia fragilis | Short Purple-flag |
| MTG | Tetraria capillaris | Hair Sedge |
| MTG | Austrodanthonia setacea | Bristly Wallaby-grass |
| MNG | Hypolaena fastigiata | Tassel Rope-rush |
| MNG | Baumea juncea | Bare Twig-sedge |
| SC | Cassytha glabella | Slender Dodder-laurel |
| SC | Cassytha pubescens s.s. | Downy 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

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| EVC 6: Sand Heathland - Glenelg Plain bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Glenelg Plain 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.

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

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| **LF Code**  MS |  | **Species typical of at least part of EVC range**  Sprengelia incarnata | **Common Name**  Pink Swamp-heath |
| MS |  | Melaleuca squarrosa | Scented Paperbark |
| MS |  | Leptospermum continentale | Prickly Tea-tree |
| MS |  | Banksia marginata | Silver Banksia |
| SS |  | Hibbertia riparia | Erect Guinea-flower |
| SS |  | Epacris lanuginosa | Woolly-style Heath |
| SS |  | Hibbertia stricta s.l. | Upright Guinea-flower |
| SS |  | Boronia parviflora | Swamp Boronia |
| PS |  | Xanthosia dissecta s.l. | Cut-leaf Xanthosia |
| LH |  | Xyris operculata | Tall Yellow-eye |
| LH |  | Villarsia reniformis | Running Marsh-flower |
| MH |  | Argentipallium obtusifolium | Blunt Everlasting |
| MH |  | Viola sieberiana spp. agg. | Tiny Violet |
| MH |  | Gonocarpus tetragynus | Common Raspwort |
| SH |  | Gonocarpus micranthus ssp. micranthus | Creeping Raspwort |
| SH |  | Drosera pygmaea | Tiny Sundew |
| LTG |  | Gymnoschoenus sphaerocephalus | Button Grass |
| LTG | r | Xanthorrhoea caespitosa | Tufted Grass-tree |
| LTG |  | Xanthorrhoea minor ssp. lutea | Small Grass-tree |
| LNG |  | Austrostipa muelleri | Wiry Spear-grass |
| LNG |  | Lepidosperma longitudinale | Pithy Sword-sedge |
| MTG |  | Schoenus apogon | Common Bog-sedge |
| MTG |  | Patersonia fragilis | Short Purple-flag |
| MTG |  | Stylidium graminifolium s.l. | Grass Trigger-plant |
| MTG |  | Tetraria capillaris | Hair Sedge |
| MNG |  | Leptocarpus tenax | Slender Twine-rush |
| MNG |  | Empodisma minus | Spreading Rope-rush |
| MNG |  | Sporadanthus tasmanicus | Branching Scale-rush |
| MNG |  | Lepyrodia muelleri | Common Scale-rush |
| GF |  | Lindsaea linearis | Screw Fern |
| SC |  | Gleichenia microphylla | Scrambling Coral-fern |
| SC |  | Cassytha glabella | Slender Dodder-laurel |

Ecological Vegetation Class bioregion benchmark

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| EVC 8: Wet Heathland - Glenelg Plain bioregion | |
|  | **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. |

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

Glenelg Plain 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 | 5% | LH |
| Medium Herb | 5 | 10% | MH |
| Small or Prostrate Herb\* | 5 | 5% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 4 | 10% | MTG |
| Tiny Tufted Graminoid\* | 3 | 5% | TTG |
| Medium to Tiny Non-tufted Graminoid  \* largely seasonal life form | 3 | 50% | MNG |
| **Total understorey projective foliage cover** |  | **90%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  LH | **Species typical of at least part of EVC range**  Villarsia reniformis | **Common Name**  Running Marsh-flower |
| LH | Senecio glomeratus | Annual Fireweed |
| MH | Samolus repens | Creeping Brookweed |
| MH | Lobelia anceps | Angled Lobelia |
| MH | Utricularia tenella | Pink Bladderwort |
| MH | Leptorhynchos squamatus | Scaly Buttons |
| SH | Selliera radicans | Shiny Swamp-mat |
| SH | Stylidium inundatum | Hundreds and Thousands |
| SH | Sebaea albidiflora | White Sebaea |
| SH | Ranunculus robertsonii | Slender Buttercup |
| LTG | Gahnia filum | Chaffy Saw-sedge |
| MTG | Schoenus apogon | Common Bog-sedge |
| MTG | Lomandra sororia | Small Mat-rush |
| MTG | Lomandra micrantha s.l. | Small-flower Mat-rush |
| MTG | Juncus bufonius | Toad Rush |
| TTG | Centrolepis strigosa ssp. strigosa | Hairy Centrolepis |
| TTG | Centrolepis aristata | Pointed Centrolepis |
| TTG | Centrolepis polygyna | Wiry Centrolepis |
| MNG | Leptocarpus brownii | Coarse Twine-rush |
| MNG | Hemarthria uncinata var. uncinata | Mat Grass |
| MNG | Baumea juncea | Bare Twig-sedge |
| MNG | Distichlis distichophylla | Australian Salt-grass |

Recruitment:

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

Organic Litter:

10% cover

Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

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| --- | --- |
| EVC 13: Brackish Sedgeland - Glenelg Plain bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Glenelg Plain bioregion

EVC 16: Lowland Forest

Description:

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

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

Tree Canopy Cover:

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| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus willisii  Eucalyptus obliqua Eucalyptus baxteri s.l. | Jimmy’s Shining Peppermint  Messmate Stringybark Brown Stringybark |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 7 | 15% | MS |
| Small Shrub | 5 | 10% | SS |
| Prostrate Shrub | 4 | 10% | PS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 15 | 20% | MH |
| Small or Prostrate Herb | 4 | 5% | SH |
| Large Tufted Graminoid | 3 | 5% | LTG |
| Large Non-tufted Graminoid | 2 | 5% | LNG |
| Medium to Small Tufted Graminoid | 8 | 15% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 5% | MNG |
| Ground Fern | 2 | 10% | GF |
| Scrambler or Climber | 2 | 1% | SC |
| Bryophytes/Lichens | na | 10% | BL |

Ecological Vegetation Class bioregion benchmark

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| --- | --- |
| EVC 16: Lowland Forest - Glenelg Plain bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia melanoxylon Blackwood  MS Leptospermum continentale Prickly Tea-tree  MS Banksia marginata Silver Banksia  MS Acacia verticillata Prickly Moses  MS Hakea rostrata Beaked Hakea  SS Tetratheca ciliata Pink-bells  SS Hibbertia riparia Erect Guinea-flower  SS Hovea heterophylla Common Hovea  SS Pultenaea stricta Rigid Bush-pea  PS Xanthosia pusilla spp. agg. Heath Xanthosia  PS Acrotriche serrulata Honey-pots  PS r Boronia nana var. nana Dwarf Boronia  PS Xanthosia dissecta s.l. Cut-leaf Xanthosia  LH Senecio tenuiflorus Slender Fireweed  MH Gonocarpus tetragynus Common Raspwort  MH Hypericum gramineum Small St John's Wort  MH Lagenophora stipitata Common Bottle-daisy  MH Veronica calycina Hairy Speedwell  SH Opercularia varia Variable Stinkweed  SH Kennedia prostrata Running Postman  SH Leptostigma reptans Dwarf Nertera  SH Opercularia ovata Broad-leaf Stinkweed  LTG Xanthorrhoea minor ssp. lutea Small Grass-tree  LTG Deyeuxia quadriseta Reed Bent-grass  LTG Austrostipa pubinodis Tall Spear-grass  LNG Austrostipa muelleri Wiry Spear-grass  LNG Gahnia radula Thatch Saw-sedge  MTG Poa sieberiana var. sieberiana Grey Tussock-grass  MTG Dianella revoluta s.s. Black-anther Flax-lily  MTG Dichelachne crinita Long-hair Plume-grass  MTG Lomandra sororia Small Mat-rush  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Pteridium esculentum Austral Bracken  GF Lindsaea linearis Screw Fern  EP Cassytha glabella Slender Dodder-laurel  SC Billardiera scandens var. scandens Common Apple-berry  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**  LH Centaurium tenuiflorum Slender Centaury low low MH Hypochoeris radicata Cat's Ear high low  MTG Anthoxanthum odoratum Sweet Vernal-grass high high  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 18: Riparian Forest

Description:

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

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Eucalyptus viminalis  Eucalyptus ovata | Manna Gum  Swamp Gum |

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

Ecological Vegetation Class bioregion benchmark

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| --- | --- |
| EVC 18: Riparian Forest - Glenelg Plain bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia melanoxylon Blackwood  T Pomaderris aspera Hazel Pomaderris  T Pittosporum bicolor Banyalla  MS Coprosma quadrifida Prickly Currant-bush  MS Melaleuca squarrosa Scented Paperbark  MS Hedycarya angustifolia Austral Mulberry  MS Solanum aviculare Kangaroo Apple  LH Urtica incisa Scrub Nettle  LH Senecio minimus Shrubby Fireweed  MH Scutellaria humilis Dwarf Skullcap  MH Lobelia anceps Angled Lobelia  MH Australina pusilla ssp. muelleri Shade Nettle  MH Hydrocotyle hirta Hairy Pennywort  SH Lobelia pedunculata s.l. Matted Pratia  SH Oxalis exilis Shady Wood-sorrel  SH Dichondra repens Kidney-weed  SH Callitriche muelleri Round Water-starwort  LTG Gahnia sieberiana Red-fruit Saw-sedge  LTG Carex appressa Tall Sedge  LTG Lepidosperma laterale var. majus Variable Sword-sedge  LTG Baloskion tetraphyllum ssp. tetraphyllum Tassel Cord-rush  LNG Tetrarrhena juncea Forest Wire-grass  MTG Juncus pauciflorus Loose-flower Rush  MTG r Isolepis wakefieldiana Tufted Club-sedge  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Blechnum nudum Fishbone Water-fern  GF Hypolepis rugosula Ruddy Ground-fern  GF Gleichenia microphylla Scrambling Coral-fern  GF Blechnum wattsii Hard Water-fern  TRF Todea barbara Austral King-fern  TRF Dicksonia antarctica Soft Tree-fern  EP Microsorum pustulatum ssp. pustulatum Kangaroo Fern  EP Hymenophyllum cupressiforme Common Filmy Fern  SC Parsonsia brownii Twining Silkpod  SC Clematis aristata Mountain Clematis  SC Calystegia marginata Forest Bindweed  **Recruitment:**  Continuous  **Organic Litter:**  50 % cover  **Logs:**  30 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Rubus fruticosus spp. agg. Blackberry high high  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 23: Herb-rich Foothill Forest

Description:

Occurs on relatively fertile, moderately well-drained soils on an extremely wide range of geological types and in areas of moderate to high rainfall. Occupies easterly and southerly aspects mainly on lower slopes and in gullies. A medium to tall open forest or woodland to 25 m tall with a small tree layer over a sparse to dense shrub layer. A high cover and diversity of herbs and grasses in the ground layer characterise this EVC.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Eucalyptus ovata  Eucalyptus viminalis ssp. viminalis | Swamp Gum  Manna Gum |

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 23: Herb-rich Foothill Forest - Glenelg Plain bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia melanoxylon Blackwood  T Pomaderris aspera Hazel Pomaderris  MS Coprosma quadrifida Prickly Currant-bush  MS Bursaria spinosa ssp. spinosa Sweet Bursaria  MS Leucopogon parviflorus Coast Beard-heath  MS Leucopogon lanceolatus var. lanceolatus Lance Beard-heath  SS Pimelea humilis Common Rice-flower  SS Dillwynia glaberrima Smooth Parrot-pea  PS Bossiaea prostrata Creeping Bossiaea  PS Acrotriche serrulata Honey-pots  LH Senecio tenuiflorus Slender Fireweed  LH Sigesbeckia orientalis ssp. orientalis Indian Weed  MH Oxalis perennans Grassland Wood-sorrel  MH Cynoglossum suaveolens Sweet Hound's-tongue  MH Acaena novae-zelandiae Bidgee-widgee  MH Geranium potentilloides Cinquefoil Cranesbill  SH Leptostigma reptans Dwarf Nertera  SH Dichondra repens Kidney-weed  SH Opercularia ovata Broad-leaf Stinkweed  SH Hydrocotyle laxiflora Stinking Pennywort  LTG Austrostipa pubinodis Tall Spear-grass  LTG Xanthorrhoea minor ssp. lutea Small Grass-tree  LNG Gahnia radula Thatch Saw-sedge  MTG Lomandra sororia Small Mat-rush  MTG Poa labillardierei Common Tussock-grass  MTG Pentapogon quadrifidus Five-awned Spear-grass  MTG Stylidium graminifolium s.l. Grass Trigger-plant  MNG Poa tenera Slender Tussock-grass  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Pteridium esculentum Austral Bracken  GF Adiantum aethiopicum Common Maidenhair  GF Lindsaea linearis Screw Fern  SC Cassytha pubescens s.s. Downy Dodder-laurel  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**  MH Hypochoeris radicata Cat's Ear high low MH Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low MNG Holcus lanatus Yorkshire Fog high high MTG Anthoxanthum odoratum Sweet Vernal-grass high high  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 30: Wet Forest

Description:

Grows on fertile, well-drained loamy soils on basalt. It is restricted to deep, sheltered gullies where moisture and fertility levels are relatively high. Characterised by a tall eucalypt overstorey to 30 m tall with scattered mid-storey trees over a moist, shaded, fern-rich ground layer dominated by tree-ferns.

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

Tree Canopy Cover:

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| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Eucalyptus ovata | Swamp Gum |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Pomaderris aspera | **Common Name**  Hazel Pomaderris |
| T | Acacia melanoxylon | Blackwood |
| MS | Coprosma quadrifida | Prickly Currant-bush |
| MS | Leucopogon lanceolatus var. lanceolatus | Lqnce Beard-heath |
| MS | Goodenia ovata | Hop Goodenia |
| SS | Rubus parvifolius | Small-leaf Bramble |
| LH | Sambucus gaudichaudiana | White Elderberry |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| MH | Hydrocotyle hirta | Hairy Pennywort |
| MH | Gratiola peruviana | Austral Brooklime |
| SH | Isotoma fluviatilis ssp. australis | Swamp Isotome |
| LTG | Cyperus lucidus | Leafy Flat-sedge |
| LTG | Carex appressa | Tall Sedge |
| MTG | Isolepis platycarpa | Broad-fruit Club-sedge |
| MTG | Glyceria australis | Australian Sweet-grass |
| MTG | Isolepis inundata | Swamp Club-sedge |
| MTG | Lachnagrostis rudis | Ruddy Blown-grass |
| MNG | Poa tenera | Slender Tussock-grass |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| GF | Blechnum nudum | Fishbone Water-fern |
| GF | Polystichum proliferum | Mother Shield-fern |
| GF | Blechnum wattsii | Hard Water-fern |
| GF | Blechnum minus | Soft Water-fern |
| TRF | Dicksonia antarctica | Soft Tree-fern |
| TRF | Todea barbara | Austral King-fern |
| SC | Clematis aristata | Mountain Clematis |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 30: Wet Forest – Glenelg Plain bioregion | |
|  | **Recruitment:**  Continuous.  **Organic Litter:**  50 % cover  **Logs:**  30 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Crepis capillaris Smooth Hawksbeard high low LH Ciclospermum leptophyllum Slender Celery high low  Published by the Victorian Government Department of Sustainability and Environment December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain 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**  Eucalyptus spp. | **DBH(cm)**  60 cm | **#/ha**  15 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus baxteri s.l.  Eucalyptus willisii | Brown Stringybark  Jimmy’s Shining Peppermint |

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 48: Heathy Woodland - Glenelg Plain bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  MS Leptospermum myrsinoides Heath Tea-tree  MS Banksia marginata Silver Banksia  MS Epacris impressa Common Heath  MS Correa reflexa Common Correa  SS Hibbertia fasciculata var. prostrata Bundled Guinea-flower  SS Astroloma conostephioides Flame Heath  SS Tetratheca ciliata Pink-bells  SS Isopogon ceratophyllus Horny Cone-bush  PS Acrotriche serrulata Honey-pots  PS Styphelia adscendens Golden Heath  PS Astroloma humifusum Cranberry Heath  PS Gompholobium ecostatum Dwarf Wedge-pea  MH Goodenia geniculata Bent Goodenia  MH Gonocarpus tetragynus Common Raspwort  MH Argentipallium blandowskianum Woolly Everlasting  SH Kennedia prostrata Running Postman  LTG r Xanthorrhoea caespitosa Tufted Grass-tree  LNG Lepidosperma longitudinale Pithy Sword-sedge  MTG Stylidium graminifolium s.l. Grass Trigger-plant  MTG Lomandra nana Dwarf Mat-rush  MTG Poa morrisii Soft Tussock-grass  MTG Dianella revoluta s.l. Black-anther Flax-lily  MNG Hypolaena fastigiata Tassel Rope-rush  MNG Lepidobolus drapetocoleus Scale Shedder  GF Pteridium esculentum Austral Bracken  SC Cassytha pubescens s.s. Downy Dodder-laurel  **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. |

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 53: Swamp Scrub

###### Description:

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

###### Canopy Cover:

|  |  |  |
| --- | --- | --- |
| %cover | Character Species | Common Name |
| 50% | Leptospermum lanigerum | Woolly Tea-tree |
|  | Melaleuca squarrosa | Scented Paperbark |
|  | Acacia melanoxylon | Blackwood |
|  | Acacia mearnsii | Black Wattle |

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

|  |  |  |
| --- | --- | --- |
| LF Code  MS | Species typical of at least part of EVC range  Ozothamnus ferrugineus | Common Name  Tree Everlasting |
| MS | Leptospermum continentale | Prickly Tea-tree |
| SS | Rubus parvifolius | Small-leaf Bramble |
| MH | Oxalis perennans | Grassland Wood-sorrel |
| MH | Lagenophora stipitata | Common Bottle-daisy |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| SH | Lobelia pedunculata s.l. | Matted Pratia |
| SH | Hydrocotyle sibthorpioides | Shining Pennywort |
| SH | Dichondra repens | Kidney-weed |
| LTG | Gahnia clarkei | Tall Saw-sedge |
| LTG | Juncus pallidus | Pale Rush |
| LTG | Carex appressa | Tall Sedge |
| MTG | Juncus pauciflorus | Loose-flower Rush |
| MNG | Poa tenera | Slender Tussock-grass |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| GF | Pteridium esculentum | Austral Bracken |

Recruitment:

Continuous

###### Organic Litter:

40 % cover

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 53: Swamp Scrub - Glenelg Plain bioregion | |
|  | Weediness:  LF Code Typical Weed Species Common Name Invasive Impact  LH Cirsium vulgare Spear Thistle high high  LH Sonchus oleraceus Common Sow-thistle high low  MH Hypochoeris radicata Cat's Ear high low MH Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low MH Centaurium erythraea Common Centaury high low  MH Prunella vulgaris Self-heal high low  MH Anagallis arvensis Pimpernel 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. |

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

Glenelg Plain bioregion

EVC 55: Plains Grassy Woodland

Description:

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

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 10% | Eucalyptus camaldulensis | River Red Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 1 | 1% | T |
| Medium Shrub | 1 | 5% | MS |
| Small Shrub | 2 | 5% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 18 | 25% | MH |
| Small or Prostrate Herb | 4 | 10% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 15 | 40% | MTG |
| Medium to Tiny Non-tufted Graminoid | 4 | 5% | MNG |
| Bryophytes/Lichens | na | 10 % | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  SS | **Species typical of at least part of EVC range**  Pimelea humilis | **Common Name**  Common Rice-flower |
| SS | Pimelea curviflora s.l. | Curved Rice-flower |
| PS | Astroloma humifusum | Cranberry Heath |
| PS | Bossiaea prostrata | Creeping Bossiaea |
| MH | Drosera peltata ssp. peltata | Pale Sundew |
| MH | Acaena echinata | Sheep's Burr |
| MH | Leptorhynchos squamatus | Scaly Buttons |
| SH | Convolvulus erubescens spp. agg. | Pink Bindweed |
| SH | Drosera whittakeri ssp. aberrans | Scented Sundew |
| SH | Hydrocotyle laxiflora | Stinking Pennywort |
| SH | Solenogyne dominii | Smooth Solenogyne |
| LTG | Austrostipa pubinodis | Tall Spear-grass |
| MTG | Schoenus apogon | Common Bog-sedge |
| MTG | Themeda triandra | Kangaroo Grass |
| MTG | Tricoryne elatior | Yellow Rush-lily |
| MTG | Caesia calliantha | Blue Grass-lily |
| MNG | Microtis unifolia | Common Onion-orchid |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| TTG | Centrolepis aristata | Pointed Centrolepis |
| SC | Thysanotus patersonii | Twining Fringe-lily |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 55: Plains Grassy Woodland - Glenelg Plain bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  10 % cover  **Logs:**  10 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low  MH Trifolium campestre var. campestre Hop Clover high low MH Trifolium subterraneum Subterranean Clover high low  MH Centaurium erythraea Common Centaury high low  MH Anagallis arvensis Pimpernel high low  MH Hypochoeris glabra Smooth Cat's-ear high low  MH Trifolium dubium Suckling Clover high low  LNG Holcus lanatus Yorkshire Fog high high  MTG Briza minor Lesser Quaking-grass high low  MTG Romulea rosea Onion Grass high low  MTG Briza maxima Large Quaking-grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low MTG Anthoxanthum odoratum Sweet Vernal-grass high high  MNG Juncus capitatus Capitate Rush high low  MNG Aira elegantissima Delicate Hair-grass high low  MNG Cynosurus echinatus Rough Dog's-tail high low  MNG Aira spp. Hair Grass high low  TTG Cyperus tenellus Tiny Flat-sedge high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 56: Floodplain Riparian Woodland

Description:

An open eucalypt woodland to 20 m tall over a medium to tall shrub layer with a ground layer consisting of amphibious and aquatic herbs and sedges. Occurs along the banks and floodplains of the larger meandering rivers and major creeks, often in conjunction with one or more floodplain wetland communities. Elevation and rainfall are relatively low and soils are fertile alluviums subject to periodic flooding and inundation.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 20% | Eucalyptus camaldulensis  Eucalyptus ovata | River Red-gum  Swamp Gum |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia melanoxylon | **Common Name**  Blackwood |
| MS | Bursaria spinosa ssp. spinosa | Sweet Bursaria |
| MS | Acacia pycnantha | Golden Wattle |
| MS | Leptospermum lanigerum | Woolly Tea-tree |
| LH | Senecio glomeratus | Annual Fireweed |
| MH | Rumex brownii | Slender Dock |
| SH | Dichondra repens | Kidney-weed |
| SH | Crassula helmsii | Swamp Crassula |
| SH | Hydrocotyle sibthorpioides | Shining Pennywort |
| LTG | Lomandra longifolia | Spiny-headed Mat-rush |
| LTG | Poa labillardierei | Common Tussock-grass |
| LNG | Phragmites australis | Common Reed |
| MTG | Lachnagrostis filiformis | Common Blown-grass |
| MTG | Austrodanthonia penicillata | Slender Wallaby-grass |
| MTG | Dianella revoluta s.l. | Black-anther Flax-lily |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| EP | Muellerina eucalyptoides | Creeping Mistletoe |
| SC | Cassytha melantha | Coarse Dodder-laurel |
| SC | Calystegia sepium | Large Bindweed |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 56: Floodplain Riparian Woodland - Glenelg Plain bioregion | |
|  | **Recruitment:**  Episodic/Flood. Desirable period between disturbances is 5 years.  **Organic Litter:**  40 % cover  **Logs:**  30 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Rosa rubiginosa Sweet Briar high high LH Rumex conglomeratus Clustered Dock high low LH Sonchus oleraceus Common Sow-thistle high low  LH Rumex crispus Curled Dock high low LH Helminthotheca echioides Ox-tongue high low  LH Aster subulatus Aster-weed high low  LH Cirsium vulgare Spear Thistle high high  LH Sonchus asper s.l. Rough Sow-thistle high low  LH Plantago lanceolata Ribwort high low  MH Hypochoeris radicata Cat's Ear high low MH Plantago major Greater Plantain high low  MH Brassica fruticulosa Twiggy Turnip high high  MH Atriplex prostrata Hastate Orache high high  LTG Phalaris aquatica Toowoomba Canary-grass high high  LNG Holcus lanatus Yorkshire Fog high high  MTG Cyperus eragrostis Drain Flat-sedge high high  MTG Bromus catharticus Prairie Grass high low  MTG Lolium perenne Perennial Rye-grass high low MNG Paspalum distichum Water Couch high high  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 68: Creekline Grassy Woodland

Description:

Eucalypt-dominated woodland to 15 m tall with occasional scattered shrub layer over a mostly grassy/sedgy to herbaceous ground-layer. Occurs on low-gradient ephemeral to intermittent drainage lines, typically on fertile colluvial/alluvial soils, on a wide range of suitably fertile geological substrates. These minor drainage lines can include a range of graminoid and herbaceous species tolerant of waterlogged soils, and are presumed to have sometimes resembled a linear wetland or system of interconnected small ponds.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| %cover | Character Species | Common Name |
| 15% | Eucalyptus camaldulensis | River Red-gum |

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

|  |  |  |
| --- | --- | --- |
| LF Code  T | Species typical of at least part of EVC range  Acacia melanoxylon | Common Name  Blackwood |
| T | Acacia retinodes | Wirilda |
| MS | Hymenanthera dentata s.l. | Tree Violet |
| SS | Rubus parvifolius | Small-leaf Bramble |
| SS | Enchylaena tomentosa var. tomentosa | Ruby Saltbush |
| MH | Oxalis perennans | Grassland Wood-sorrel |
| SH | Azolla filiculoides | Pacific Azolla |
| SH | Lemna disperma | Common Duckweed |
| LTG | Austrostipa bigeniculata | Kneed Spear-grass |
| LTG | Poa labillardierei | Common Tussock-garss |
| LNG | Phragmites australis | Common Reed |
| MTG | Austrodanthonia racemosa var. racemosa | Stiped Wallaby-grass |
| MTG | Austrodanthonia caespitosa | Common Wallaby-grass |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| SC | Glycine clandestina | Twining Glycine |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 68: Creekline Grassy Woodland - Glenelg Plain bioregion | |
|  | Recruitment:  Continuous  Organic Litter:  40 % cover  Logs:  20 m/0.1 ha.  Weediness:  LF Code Typical Weed Species Common Name Invasive Impact  T Salix fragilis Crack Willow high high  MS Lycium ferocissimum African Box-thorn high high MS Genista monspessulana Montpellier Broom high high MS Rosa rubiginosa Sweet Briar high high  MS Rubus sp. aff. armeniacus Blackberry high high  LH Plantago lanceolata Ribwort high low  LH Sonchus oleraceus Common Sow-thistle high low  LH Hirschfeldia incana Buchan Weed high high LH Verbena bonariensis s.l. Purple-top Verbena high high  LH Rumex crispus Curled Dock high high  LH Rumex conglomeratus Clustered Dock high high  LH Conium maculatum Hemlock high high  LH Helminthotheca echioides Ox-tongue high low  LH Aster subulatus Aster-weed high low  LH Sonchus asper s.l. Rough Sow-thistle high low LH Solanum nigrum sensu Willis (1972) Black Nightshade high high MH Brassica fruticulosa Twiggy Turnip high high  MH Hypochoeris radicata Cat's Ear high low  MH Foeniculum vulgare Fennel high high  SH Modiola caroliniana Red-flower Mallow high low  LTG Phalaris aquatica Toowoomba Canary-grass high high  LTG Piptatherum miliaceum Rice Millet high high MTG Ehrharta erecta var. erecta Panic Veldt-grass high high MTG Paspalum dilatatum Paspalum high high  MTG Bromus catharticus Prairie Grass high low  MTG Romulea rosea Onion Grass high low  MTG Bromus diandrus Great Brome high low  MTG Briza maxima Large Quaking-grass high low  MTG Agrostis capillaris s.l. Brown-top Bent high high  MNG Dactylis glomerata Cocksfoot high high  MNG Paspalum distichum Water Couch high high SC Tradescantia fluminensis Wandering Jew high high  Published by the Victorian Government Department of Sustainability and Environment November 2007  © The State of Victoria Department of Sustainability and Environment 2007  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 71: Hills Herb-rich Woodland

Description:

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

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus melliodora  Eucalyptus camaldulensis | Yellow Box  River Red-gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Small Shrub | 1 | 1% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 1 | 5% | LH |
| Medium Herb | 20 | 30% | MH |
| Small or Prostrate Herb | 7 | 10% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 15 | 25% | MTG |
| Medium to Tiny Non-tufted Graminoid | 5 | 15% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 71: Hills Herb-rich Woodland – Glenelg Plain bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  SS Pimelea humilis Common Rice-flower  PS Astroloma humifusum Cranberry Heath  LH Podolepis jaceoides s.l. Showy/Basalt Podolepis  MH Pelargonium rodneyanum Magenta Stork's-bill  MH Goodenia geniculata Bent Goodenia  MH Hypericum gramineum Small St John's Wort  MH Poranthera microphylla Small Poranthera  SH Hydrocotyle laxiflora Stinking Pennywort  SH Drosera glanduligera Scarlet Sundew  SH Solenogyne dominii Smooth Solenogyne  SH Siloxerus multiflorus Small Wrinklewort  LTG Austrostipa nodosa Knotty Spear-grass  LTG Austrostipa mollis Supple Spear-grass  MTG Neurachne alopecuroidea Fox-tail Mulga-grass  MTG Pentapogon quadrifidus Five-awned Spear-grass  MTG Poa sieberiana Grey Tussock-grass  MTG Lomandra nana Dwarf Mat-rush  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Triglochin nanum Dwarf Arrowgrass  MNG Microtis unifolia Common Onion-orchid  TTG Centrolepis strigosa ssp. strigosa Hairy Centrolepis  TTG Centrolepis aristata Pointed Centrolepis  TTG Aphelia pumilio Dwarf Aphelia  SC Thysanotus patersonii Twining Fringe-lily  **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Centaurium tenuiflorum Slender Centaury high low MH Hypochoeris radicata Cat's Ear high low  MH Parentucellia latifolia Red Bartsia high low  MH Anagallis arvensis Pimpernel high low MH Trifolium campestre var. campestre Hop Clover high low  MH Galium divaricatum Slender Bedstraw high low  MTG Briza minor Lesser Quaking-grass high low  MTG Romulea rosea Onion Grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low  MNG Juncus capitatus Capitate Rush high low  MNG Aira elegantissima Delicate Hair-grass high low  MNG Aira cupaniana Quicksilver Grass high low  MNG Vulpia myuros Rat's-tail Fescue high low  TTG Cyperus tenellus Tiny Flat-sedge high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 125: Plains Grassy Wetland

Description:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Life forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Large Herb | 6 | 10% | LH |
| Medium Herb | 11 | 20% | MH |
| Small or Prostrate Herb | 4 | 10% | SH |
| Large Tufted Graminoid | 2 | 10% | LTG |
| Medium to Small Tufted Graminoid | 11 | 30% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 10% | MNG |
| Tiny Tufted Graminoid\* | 2 | 1% | TTG |
| Bryophytes/Lichens | na | 10% | BL |
| \*Largely seasonal life form |  |  |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  LH | **Species typical of at least part of EVC range**  Calocephalus lacteus | **Common Name**  Milky Beauty-heads |
| LH | Calocephalus citreus | Lemon Beauty-heads |
| MH | Microseris scapigera spp. agg. | Yam Daisy |
| MH | Lythrum hyssopifolia | Small Loosestrife |
| MH | Potamogeton tricarinatus s.l. | Floating Pondweed |
| SH | Lobelia pratioides | Poison Lobelia |
| SH | Eryngium vesiculosum | Prickfoot |
| SH | Ranunculus amphitrichus | Small River Buttercup |
| SH | Solenogyne dominii | Smooth Solenogyne |
| LTG | Amphibromus nervosus | Common Swamp Wallaby-grass |
| LTG | Deyeuxia quadriseta | Reed Bent-grass |
| MTG | Juncus holoschoenus | Joint-leaf Rush |
| MTG | Poa labillardierei | Common Tussock-grass |
| MNG | Eleocharis pusilla | Small Spike-sedge |
| MNG | Eleocharis atricha | Tuber Spike-sedge |
| MNG | Eleocharis acuta | Common Spike-sedge |
| TTG | Aphelia gracilis | Slender Aphelia |

Recruitment:

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

Organic Litter:

10% cover

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 125: Plains Grassy Wetland – Glenelg Plain bioregion | |
|  | **Logs:**  5 m/0.1 ha.(where trees are overhanging the wetland)  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  SS Marrubium vulgare Horehound high high  LH Parentucellia viscosa Yellow Bartsia high low  LH Cirsium vulgare Spear Thistle high low  MH Trifolium dubium Suckling Clover high low MH Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low MH Hypochoeris radicata Cat's Ear high low MH Trifolium campestre var. campestre Hop Clover high low  MH Mentha pulegium Pennyroyal high high  MH Cicendia filiformis Slender Cicendia high low  MH Cotula coronopifolia Water Buttons high high MH Cicendia quadrangularis Square Cicendia high low MH Trifolium subterraneum Subterranean Clover high low  MH Trifolium scabrum Rough Clover high low  MH Arctotheca calendula Cape Weed high low  LTG Phalaris aquatica Toowoomba Canary-grass high high  LNG Holcus lanatus Yorkshire Fog high high  MTG Briza minor Lesser Quaking-grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low  MTG Romulea rosea Onion Grass high low  MTG Lolium perenne Perennial Rye-grass high high  MTG Critesion marinum Sea Barley-grass high low  MTG Poa annua Annual Meadow-grass high low MTG Bromus hordeaceus ssp. hordeaceus Soft Brome high low  MNG Juncus capitatus Capitate Rush high low  TTG Cyperus tenellus Tiny Flat-sedge high low  TTG Isolepis hystrix Awned Club-sedge high low  Published by the Victorian Government Department of Sustainability and Environment May 2005  © The State of Victoria Department of Sustainability and Environment 2005  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 133: Limestone Pomaderris Shrubland

Description:

Shrubland to 3 m tall occurring on rocky limestone cliffs or cliff tops above the Glenelg River. Dominated by Glenelg Pomaderris with emergent Drooping She-oak and a range of shrubs, grasses and other herbs.

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

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  T |  | **Species typical of at least part of EVC range**  Allocasuarina verticillata | **Common Name**  Drooping Sheoak |
| T |  | Exocarpos cupressiformis | Cherry Ballart |
| MS | r | Pomaderris halmaturina ssp. continentis | Glenelg Pomaderris |
| MS |  | Leucopogon parviflorus | Coast Beard-heath |
| MS |  | Bursaria spinosa | Sweet Bursaria |
| MS |  | Dodonaea viscosa | Sticky Hop-bush |
| SS |  | Leucopogon virgatus | Common Beard-heath |
| PS |  | Astroloma humifusum | Cranberry Heath |
| PS |  | Acrotriche serrulata | Honey-pots |
| LH |  | Senecio pinnatifolius | Variable Groundsel |
| LH |  | Senecio odoratus var. odoratus | Scented Groundsel |
| LH |  | Urtica incisa | Scrub Nettle |
| LH |  | Sambucus gaudichaudiana | White Elderberry |
| MH |  | Scaevola albida | Small-fruit Fan-flower |
| MH |  | Acaena novae-zelandiae | Bidgee-widgee |
| SH |  | Opercularia varia | Variable Stinkweed |
| SH |  | Convolvulus remotus | Grassy Bindweed |
| SH |  | Apium prostratum ssp. prostratum | Sea Celery |
| LTG |  | Austrostipa flavescens | Coast Spear-grass |
| MTG |  | Themeda triandra | Kangaroo Grass |
| MTG |  | Dianella brevicaulis | Small-flower Flax-lily |
| MTG |  | Austrodanthonia caespitosa | Common Wallaby-grass |
| MTG |  | Poa labillardierei | Common Tussock-grass |
| GF |  | Pteris tremula | Tender Brake |
| SC |  | Clematis microphylla | Small-leaved Clematis |

Recruitment:

Continuous

Organic Litter:

20 % cover

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 133: Limestone Pomaderris Shrubland - Glenelg Plain bioregion | |
|  | **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Sonchus oleraceus Common Sow-thistle high low  LH Cirsium vulgare Spear Thistle high low LH Solanum nigrum sensu Willis (1972) Black Nightshade high low  LH Reseda luteola Weld high low  LH Plantago lanceolata Ribwort high low  MH Centaurium erythraea Common Centaury high low  MH Anagallis arvensis Pimpernel high low  MH Hypochoeris radicata Cat's Ear high low MH Leontodon taraxacoides spp. taraxacoides Hairy Hawkbit high low MTG Catapodium rigidum Fern Grass high low  MNG Vulpia myuros Rat’s-tail Fescue high low  MNG Lagurus ovatus Hare’s-tail Grass high low  MNG Aira cupaniana Small Hair-grass high low  Published by the Victorian Government Department of Sustainability and Environment December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 136: Sedge Wetland

Description:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Life forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Large Herb | 1 | 5% | LH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Tufted Graminoid | 2 | 20% | LTG |
| Large Non-tufted Graminoid | 1 | 20% | LNG |
| Bryophytes/Lichens | na | 10% | BL |
| **Total understorey projective foliage cover** |  | **55%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Leptospermum continentale | **Common Name**  Prickly Tea-tree |
| LH | Villarsia reniformis | Running Marsh-flower |
| LH | Epilobium billardierianum | Variable Willow-herb |
| LTG | Triglochin procerum s.l. | Water Ribbons |
| LTG | Baumea articulata | Jointed Twig-sedge |
| LNG | Baumea rubiginosa s.l. | Soft Twig-rush |

Recruitment:

Episodic/Flood. Desirable period between disturbances is 5 years

Organic Litter:

10 % cover

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Weediness: LF Code** | **Typical Weed Species** | **Common Name** | **Invasive** | **Impact** |
| MH MH  MH MH MTG  MTG MTG  MTG MTG  MNG MNG  TTG TTG | Leontodon taraxacoides ssp. taraxacoides Hypochoeris radicata  Hypochoeris glabra Cotula coronopifolia Critesion hystrix  Vulpia bromoides Romulea rosea  Lolium perenne Briza minor  Holcus setosus Aira elegantissima  Isolepis hystrix Cyperus tenellus | Hairy Hawkbit Cat's Ear  Smooth Cat's-ear Water Buttons  Mediterranean Barley-grass  Squirrel-tail Fescue Onion Grass Perennial Rye-grass Lesser Quaking-grass Annual Fog  Delicate Hair-grass Awned Club-sedge  Tiny Flat-sedge | high high  high high high  high high  high high  high high  high high | low low  low high low  low low  high low  low low  low low |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 136: Sedge Wetland – Glenelg Plain bioregion | |
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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 155: Bird Colony Succulent Herbland

Description:

A closed, succulent herbland (to open herbland during bird nesting season) occurring on coastal sand. Almost entirely restricted to offshore seabird breeding colonies. The nutrient enriched sandy substrates are dominated by the succulent herb Bower Spinach Tetragonia implexicoma and other succulent herbs.

|  |  |  |  |
| --- | --- | --- | --- |
| Life Forms: Life form | #Spp | %Cover | LF code |
| Medium Shrub | 1 | 30% | MS |
| Medium Herb | 2 | 5% | MH |
| Small Herb | 2 | 20% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Scrambler/Climber | 2 | 40% | SC |
| Total understorey projective foliage cover |  | 80% |  |

|  |  |  |
| --- | --- | --- |
| LF Code  MS | Species typical of at least part of EVC range  Rhagodia candolleana ssp. candolleana | Common Name  Seaberry Saltbush |
| MH | Acaena novae-zelandiae | Bidgee-widgee |
| SH | Carpobrotus rossii | Karkalla |
| SH | Disphyma crassifolium ssp. clavellatum | Rounded Noon-flower |
| LTG | Austrostipa flavescens | Coast Spear-grass |
| SC | Tetragonia implexicoma | Bower Spinach |
| SC | Clematis microphylla | Small-leaved Clematis |

Recruitment:

Continuous

Organic Litter:

10% cover

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Weediness: LF Code | Typical Weed Species | Common Name | Invasive | Impact |
| LH LH MH MH MTG LNG | Sonchus oleraceus Diplotaxis muralis Polycarpon tetraphyllum  Arctotheca calendula Bromus diandrus  Ammophila arenaria | Common Sow-thistle Wall Rocket  Four-leaved Allseed Cape Weed  Great Brome  Marram Grass | high high high high high high | low low low low high low |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 155: Bird Colony Succulent Herbland - Glenelg Plain bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Glenelg Plain Bioregion

## EVC 160: Coastal Dune Scrub

##### Description:

Coastal Dune Scrub occupies the secondary dunes along ocean and bay beaches and lake shores. Closed scrub to 3 m tall with occasional emergent trees on siliceous and calcareous sands that are subject to high levels of saltspray and continuous disturbance from onshore winds.

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

Small or Prostrate Herb

Medium to Small Tufted Graminoid Medium to Tiny Non-Tufted Graminoid Scrambler or Climber

##### #Spp %Cover LF Code

7 50% MS

3 5% LH

7 15% MH

3 10% SH

2 15% MTG

1. 5% MNG
2. 5% SC

Bryophytes/Lichens 10% BL

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

MS *Acacia longifolia subsp. sophorae* Coast Wattle

MS *Leucopogon parviflorus* Coast Beard-heath

MS *Olearia axillaris* Coast Daisy-Bush

MS *Rhagodia candolleana subsp. candolleana* Seaberry Saltbush

LH *Senecio pinnatifolius* Variable Groundsel

MH *Myosotis australis* Austral Forget-me-not

MH *Senecio biserratus* Jagged Fireweed

MH k

*Stackhousia spathulata* Coast Stackhousia

SH *Apium prostratum subsp. prostratum* Sea Celery



SH *Carpobrotus rossii* Karkalla

SH *Threlkeldia diffusa* Coast Bonefruit

MTG *Lachnagrostis billardierei subsp. billardierei* Coast Blown-grass

MTG *Poa poiformis var. poiformis* Coast Tussock-grass

MNG *Ficinia nodosa* Knobby Club-sedge

MNG *Schoenus nitens* Shiny Bog-sedge

SC *Clematis microphylla var. microphylla* Small-leaved Clematis

SC *Tetragonia implexicoma* Bower Spinach

##### Recruitment:

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

##### Organic Litter:

40 % cover

Ecological Vegetation Class Bioregion Benchmark

|  |  |
| --- | --- |
| EVC 160: Coastal Dune Scrub | |
|  | **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS *Lycium ferocissimum* African Box-thorn high high  MS *Rhamnus alaternus* Italian Buckthorn high high  LH *Senecio elegans* Purple Groundsel high high  LNG *Ammophila arenaria* Marram Grass high high SC *Asparagus asparagoides* Bridal Creeper high high LH *Sonchus oleraceus* Common Sow-thistle high low  LH *Sonchus asper s.l.* Rough Sow-thistle high low  MNG *Lagurus ovatus* Hare's-tail Grass high low  MTG *Catapodium rigidum* Fern Grass high low  LH *Melilotus indicus* Sweet Melilot high low  MH *Hypochoeris radicata* Cat's Ear high low MH *Cerastium glomeratum s.l.* Common Mouse-ear high low  Chickweed  MH *Galium murale* Small Goosegrass 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**

Glenelg Plain bioregion

EVC 161: Coastal Headland Scrub

Description:

Scrub or shrubland on steep, rocky coastal headlands often associated with cliffs exposed to the stresses of extreme salt-laden winds and salt spray from the south west. Occurs on shallow sands along rocky sections of the coast.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 7 | 50% | MS |
| Large Herb | 2 | 1% | LH |
| Medium Herb | 4 | 5% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 4 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Scrambler or Climber | 2 | 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**  Acacia longifolia ssp. sophorae | **Common Name**  Coast Wattle |
| MS | Rhagodia candolleana ssp. candolleana | Seaberry Saltbush |
| MS | Alyxia buxifolia | Sea Box |
| MS | Leucopogon parviflorus | Coast Beard-heath |
| SH | Dichondra repens | Kidney-weed |
| SH | Disphyma crassifolium ssp. clavellatum | Rounded Noon-flower |
| MTG | Dianella brevicaulis | Small-flower Flax-lily |
| MTG | Lachnagrostis billardierei s.l. | Coast Blown-grass |
| MTG | Poa poiformis | Coast Tussock-grass |
| MTG | Austrodanthonia caespitosa | Common Wallaby-grass |
| MNG | Ficinia nodosa | Knobby Club-sedge |
| SC | Clematis microphylla | Small-leaved Clematis |
| SC | Tetragonia implexicoma | Bower Spinach |

Recruitment:

Continuous

Organic Litter:

40 % cover

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Weediness: LF Code** | **Typical Weed Species** | **Common Name** | **Invasive** | **Impact** |
| MS  MS LH MH MTG | Chrysanthemoides monilifera  Polygala myrtifolia var. myrtifolia Sonchus oleraceus  Hypochoeris radicata Ehrharta erecta var. erecta | Boneseed  Myrtle-leaf Milkwort Common Sow-thistle Cat's Ear  Panic Veldt-grass | high  high high high high | high  high low high high |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 161: Coastal Headland Scrub - Glenelg Plain bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Glenelg Plain bioregion

EVC 164: Creekline Herb-rich Woodland

Description:

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

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

Tree Canopy Cover:

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

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia melanoxylon | **Common Name**  Blackwood |
| MS | Leptospermum continentale | Prickly Tea-tree |
| PS | Acrotriche serrulata | Honey-pots |
| LH | Senecio minimus | Shrubby Fireweed |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Hydrocotyle hirta | Hairy Pennywort |
| SH | Goodenia lanata | Trailing Goodenia |
| LTG | Poa labillardierei | Common Tussock-grass |
| LTG | Lomandra longifolia | Spiny-headed Mat-rush |
| LTG | Juncus pallidus | Pale Rush |
| LNG | Gahnia radula | Thatch Saw-sedge |
| MTG | Poa sieberiana | Grey Tussock-grass |
| MTG | Lomandra filiformis | Wattle Mat-rush |
| MTG | Luzula meridionalis var. flaccida | Common Woodrush |
| MTG | Austrodanthonia penicillata | Slender Wallaby-grass |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| GF | Pteridium esculentum | Austral Bracken |
| SC | Hardenbergia violacea | Purple Coral-pea |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 164: Creekline Herb-rich Woodland - Glenelg Plain bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  10 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  T Crataegus monogyna Hawthorn high high  T Malus pumila Apple high high  T Salix spp. Willow high high  MS Rubus fruticosus spp. agg. Blackberry high high  LH Cirsium vulgare Spear Thistle high high LH Sonchus asper s.l. Rough Sow-thistle high low  LH Rumex crispus Curled Dock high low  LH Conium maculatum Hemlock high high MH Lotus uliginosus Greater Bird's-foot Trefoil high low  MH Acetosella vulgaris Sheep Sorrel high low  MH Hypochoeris radicata Cat's Ear high low  LNG Holcus lanatus Yorkshire Fog high high  MTG Juncus articulatus Jointed Rush high high MTG Cyperus congestus Dense Flat-sedge high low  Published by the Victorian Government Department of Sustainability and Environment May 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 179: Heathy Herb-rich Woodland

Description:

Eucalypt woodland or open-forest to 15 m tall generally with a bracken-dominated understorey. Large shrubs and understorey trees are generally present. The understorey comprises a range of heathy shrubs, grasses and herbs. Occurs on Quaternary aeolian deposits with relatively well-drained sandy soils often with limestone at depth.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 20% | Eucalyptus baxteri s.l.  Eucalyptus viminalis ssp. cygnetensis | Brown Stringybark  Rough-barked Manna-gum |

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

**Recruitment:**

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 179: Heathy Herb-rich Woodland - Glenelg Plain bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia mearnsii Black Wattle  MS Leptospermum myrsinoides Heath Tea-tree  MS Leptospermum continentale Prickly Tea-tree  MS Banksia marginata Silver Banksia  MS Acacia verticillata Prickly Moses  SS Hibbertia sericea s.l. Silky Guinea-flower  SS Hibbertia fasciculata var. prostrata Bundled Guinea-flower  SS Astroloma conostephioides Flame Heath  SS Isopogon ceratophyllus Horny Cone-bush  PS Acrotriche serrulata Honey-pots  PS Astroloma humifusum Cranberry Heath  PS Styphelia adscendens Golden Heath  PS Boronia nana Dwarf Boronia  LH Senecio tenuiflorus Slender Fireweed  LH Wahlenbergia stricta Tall Bluebell  MH Helichrysum scorpioides Button Everlasting  MH Gonocarpus tetragynus Common Raspwort  MH Goodenia geniculata Bent Goodenia  SH Oxalis corniculata s.l. Yellow Wood-sorrel  SH Opercularia varia Variable Stinkweed  SH Kennedia prostrata Running Postman  LTG Xanthorrhoea minor ssp. lutea Small Grass-tree  LTG r Xanthorrhoea caespitosa Tufted Grass-tree  LTG Austrostipa mollis Supple Spear-grass  LNG Gahnia radula Thatch Saw-sedge  MTG Lomandra nana Dwarf Mat-rush  MTG Schoenus apogon Common Bog-sedge  MTG Poa morrisii Soft Tussock-grass  MTG Dianella revoluta s.l. Black-anther Flax-lily  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Hypolaena fastigiata Tassel Rope-rush  TTG Centrolepis strigosa ssp. strigosa Hairy Centrolepis  GF Pteridium esculentum Austral Bracken  EP Amyema pendula Drooping Mistletoe  SC Cassytha pubescens s.s. Downy Dodder-laurel  SC Thysanotus patersonii Twining Fringe-lily  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low  MH Centaurium erythraea Common Centaury high low MH Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low  MH Hypochoeris glabra Smooth Cat's-ear high low  MH Anagallis arvensis Pimpernel high low  LNG Holcus lanatus Yorkshire Fog high high  MTG Briza minor Lesser Quaking-grass high low  MTG Anthoxanthum odoratum Sweet Vernal-grass high high  MNG Aira spp. Hair Grass high low  MNG Vulpia ciliata Fringed Fescue high low  MNG Juncus capitatus Capitate Rush high low MNG Vulpia myuros f. megalura Fox-tail Fescue high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 191: Riparian Scrub

Description:

Scrub or shrubland to 6 m tall. Occurs along broad, gently sloping drainage lines where stream alluvium is present. Species diversity is generally low due to the dense cover of Scented Paperbark Melaleuca squarrosa. Scattered emergent eucalypts are sometimes present while the understorey is dominated by large sedges and amphibious herbs.

Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 50% | Melaleuca squarrosa | Scented Paperbark |

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 4 | 10% | MS |
| Small Shrub | 2 | 1% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 1 | 5% | LH |
| Medium Herb | 4 | 5% | MH |
| Large Tufted Graminoid | 2 | 25% | LTG |
| Medium to Small Tufted Graminoid | 1 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 15% | MNG |
| Bryophytes/Lichens | na | 20% | BL |
| **Total understorey projective foliage cover** |  | **90%** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  MS |  | **Species typical of at least part of EVC range**  Leptospermum continentale | **Common Name**  Prickly Tea-tree |
| MS |  | Melaleuca squamea | Swamp Honey-myrtle |
| MS |  | Allocasuarina paludosa | Scrub Sheoak |
| SS |  | Pultenaea stricta | Rigid Bush-pea |
| SS |  | Epacris lanuginosa | Woolly-style Heath |
| PS | r | Xanthosia leiophylla | Parsley Xanthosia |
| LH |  | Villarsia reniformis | Running Marsh-flower |
| MH |  | Selaginella uliginosa | Swamp Selaginella |
| MH |  | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| MH |  | Drosera peltata ssp. auriculata | Tall Sundew |
| MH |  | Brunonia australis | Blue Pincushion |
| LTG |  | Gahnia sieberiana | Red-fruit Saw-sedge |
| LTG |  | Deyeuxia quadriseta | Reed Bent-grass |
| MTG |  | Tetraria capillaris | Hair Sedge |
| MNG | r | Schoenus carsei | Wiry Bog-sedge |
| MNG |  | Empodisma minus | Spreading Rope-rush |
| MNG |  | Baumea gunnii | Slender Twig-sedge |

**Recruitment:**

Continuous

Organic Litter:

40 % cover

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Weediness:** |  | | | |
| **LF Code** | **Typical Weed Species** | **Common Name** | **Invasive** | **Impact** |
| MS LNG | Rubus fruticosus spp. agg. Holcus lanatus | Blackberry Yorkshire Fog | high high | high high |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 191: Riparian Scrub - Glenelg Plain bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Glenelg Plain bioregion

EVC 195: Seasonally Inundated Shrubby Woodland

Description:

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

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

Tree Canopy Cover:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | T |
| Medium Shrub | 7 | 30% | MS |
| Small Shrub | 3 | 10% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 3 | 10% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Medium to Small Tufted Graminoid | 6 | 15% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 10% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **85%** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  MS |  | **Species typical of at least part of EVC range**  Melaleuca brevifolia | **Common Name**  Mallee Honey-myrtle |
| MS |  | Leptospermum continentale | Prickly Tea-tree |
| MS |  | Acacia verticillata | Prickly Moses |
| MS |  | Calytrix tetragona | Common Fringe-myrtle |
| SS |  | Hakea rugosa | Dwarf Hakea |
| SS |  | Hibbertia riparia | Upright Guinea-flower |
| PS |  | Astroloma humifusum | Cranberry Heath |
| LH |  | Senecio tenuiflorus | Slender Fireweed |
| LH |  | Senecio glomeratus | Annual Fireweed |
| MH |  | Acaena echinata | Sheep’s Burr |
| MH |  | Hypericum gramineum | Small St. John’s-wort |
| SH |  | Opercularia varia | Variable Stinkweed |
| MTG | r | Xanthorrhoea caespitosa | Yucca |
| MTG |  | Schoenus apogon | Common Bog-sedge |
| MTG |  | Dianella revoluta s.l. | Black-anther Flax-lily |
| MTG |  | Deyeuxia quadriseta | Reed Bent-grass |
| MNG |  | Baumea juncea | Bare Twig-sedge |
| MNG |  | Apodasmia brownii | Coarse Twine-rush |
| MNG |  | Hypolaena fastigiata | Tassel Rope-rush |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 195: Seasonally Inundated Shrubby Woodland - Glenelg Plain bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  30 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low MNG Aira elegantissima Delicate Hair-grass high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 198: Sedgy Riparian Woodland

Description:

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

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 20% | Eucalyptus obliqua  Eucalyptus ovata | Messmate Stringybark  Swamp Gum |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia melanoxylon | **Common Name**  Blackwood |
| MS | Melaleuca squarrosa | Scented Paperbark |
| MS | Leptospermum lanigerum | Woolly Tea-tree |
| MS | Goodenia ovata | Hop Goodenia |
| MS | Coprosma quadrifida | Prickly Currant-bush |
| MH | Viola hederacea sensu Entwisle (1996) | Ivy-leaf Violet |
| MH | Gonocarpus humilis | Shade Raspwort |
| MH | Acaena novae-zelandiae | Bidgee-widgee |
| LTG | Gahnia clarkei | Tall Saw-sedge |
| LTG | Baloskion tetraphyllum ssp. tetraphyllum | Tassel Cord-rush |
| LTG | Lepidosperma elatius | Tall Sword-sedge |
| LTG | Juncus procerus | Tall Rush |
| MTG | Dianella longifolia | Pale Flax-lily |
| MNG | Poa tenera | Slender Tussock-grass |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| GF | Pteridium esculentum | Austral Bracken |
| GF | Blechnum nudum | Fishbone Water-fern |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 198: Sedgy Riparian Woodland – Glenelg Plain bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Rubus ulmifolius Blackberry high high  LH Rumex crispus Curled Dock high low MH Batrachium trichophyllum Water Fennel high low  MH Hypochoeris radicata Cat's Ear high low  MH Centaurium erythraea Common Centaury high low  SH Callitriche stagnalis Common Starwort high high  LNG Holcus lanatus Yorkshire Fog high high  MTG Juncus bulbosus Bulbous Rush high high  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 283: Plains Sedgy Woodland

Description:

Occurs in shallow depressions associated with broad plains or floodplains. Soils are poorly drained, cracking clays which can seasonally form shallow freshwater marshes. The vegetation is an open woodland to 15 m tall, with shrubs and understorey trees generally absent, and sedges predominating in the ground layer. Herbs typical of inundated environments are present, but also grass, herb and geophyte species common to surrounding woodlands.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 10% | Eucalyptus camaldulensis  Eucalyptus melliodora | River Red-gum  Yellow Box |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Hakea rugosa | **Common Name**  Dwarf Hakea |
| SS | Eutaxia microphylla | Common Eutaxia |
| PS | Astroloma humifusum | Cranberry Heath |
| PS | Acrotriche serrulata | Honey-pots |
| LH | Eryngium ovinum | Blue Devil |
| LH | Brachyscome cardiocarpa | Swamp Daisy |
| LH | Villarsia reniformis | Running Marsh-flower |
| MH | Utricularia dichotoma s.l. | Fairies' Aprons |
| MH | Drosera peltata ssp. peltata | Pale Sundew |
| SH | Solenogyne dominii | Smooth Solenogyne |
| SH | Myriocephalus rhizocephalus | Woolly-heads |
| SH | Hydrocotyle laxiflora | Stinking Pennywort |
| LTG | Amphibromus nervosus | Common Swamp Wallaby-grass |
| LNG | Baumea rubiginosa s.l. | Soft Twig-rush |
| MTG | Lepidosperma congestum | Clustered Sword-sedge |
| MTG | Austrodanthonia setacea | Bristly Wallaby-grass |
| MTG | Lachnagrostis filiformis var. filiformis | Common Blown-grass |
| MTG | Schoenus apogon | Common Bog-sedge |
| MNG | Chorizandra enodis | Black Bristle-sedge |
| MNG | Eleocharis acuta | Common Spike-sedge |
| TTG | Centrolepis aristata | Pointed Centrolepis |
| TTG | Centrolepis strigosa ssp. strigosa | Hairy Centrolepis |
| TTG | Centrolepis glabra | Smooth Centrolepis |
| TTG | Aphelia gracilis | Slender Aphelia |
| SC | Thysanotus patersonii | Twining Fringe-lily |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 283: Plains Sedgy Woodland - Glenelg Plain bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  10 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Sonchus oleraceus Common Sow-thistle high low MH Hypochoeris radicata Cat's Ear high low MH Hypochoeris glabra Smooth Cat's-ear high low MH Cicendia filiformis Slender Cicendia high low  MH Anagallis arvensis Pimpernel high low  MTG Romulea rosea Onion Grass high low  MTG Briza minor Lesser Quaking-grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low  MNG Juncus capitatus Capitate Rush high low  TTG Cyperus tenellus Tiny Flat-sedge high low  TTG Isolepis hystrix Awned Club-sedge high low  Published by the Victorian Government Department of Sustainability and Environment May 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 292: Red Gum Swamp

Description:

Open woodland to 15 m tall. Occurs on alluvial plains in the seasonally wet depressions of shallow drainage lines or prior stream meanders, typically associated with heavy paludal soils, sometimes with gilgai development. The annual rainfall across its distribution is generally below 700 mm, and the period of inundation may range from 2 to 6 months. River Red Gum woodland with sedgy or grassy-herbaceous ground-layer, comprising various balances of true aquatics and species tolerant of intermittent to seasonal inundation.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus camaldulensis | River Red-gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Large Herb | 2 | 10% | LH |
| Medium Herb | 7 | 25% | MH |
| Small or Prostrate Herb | 2 | 1% | SH |
| Large Tufted Graminoid | 2 | 15% | LTG |
| Medium to Small Tufted Graminoid | 6 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 15% | MNG |
| **Total understorey projective foliage cover** |  | **90%** |  |

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 292: Red Gum Swamp – Glenelg Plain bioregion | |
|  | **Recruitment:**  Episodic/Flood – desirable period of disturbance is once every 5 years  **Organic Litter:**  10 % Cover  **Logs:**  10 m/0.1 ha  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low  MNG Briza minor Lesser Quaking-grass high low  Published by the Victorian Government Department of Sustainability and Environment October 2005  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 640: Creekline Sedgy Woodland

Description:

Sedge and rush-dominated eucalypt woodland to 15 m tall with amphibious herbs. Occurs along banks and adjacent wet flats of smaller intermittent creeks on coarse sands and stony alluvial soils and on the floodplains of larger rivers, in areas where annual rainfall is less than 500 mm per annum.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus camaldulensis | River Red Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 1 | 5% | MS |
| Small Shrub | 1 | 1% | SS |
| Medium Herb | 5 | 10% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Tufted Graminoid | 3 | 15% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 6 | 20% | MTG |
| Bryophytes/Lichens | na | 10% | BL |
| **Total understorey projective foliage cover** |  | **70%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia spp. | **Common Name**  Wattle |
| MS | Acacia pycnantha | Golden Wattle |
| SS | Pimelea humilis | Common Rice-flower |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Acaena echinata | Sheep's Burr |
| LTG | Carex appressa | Tall Sedge |
| LTG | Carex tereticaulis | Sedge Rush |
| MTG | Cyperus gunnii ssp. gunnii | Flecked Flat-sedge |
| MTG | Elymus scaber var. scaber | Common Wheat-grass |
| MTG | Lachnagrostis filiformis | Common Blown-grass |

**Recruitment:**

Continuous

**Organic Litter:**

40% cover

Logs:

20m/0.1 ha

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 640: Creekline Sedgy Woodland – Glenelg Plain bioregion | |
|  | **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Sonchus oleraceus Common Sow-thistle high low LH Cirsium vulgare Spear Thistle high low  LH Plantago lanceolata Ribwort high low  MH Hypochoeris radicata Cat's Ear high low  MH Anagallis arvensis Pimpernel high low LTG Phalaris aquatica Toowoomba Canary-grass high high  MNG Briza maxima Large Quaking-grass high low  MNG Romulea rosea Onion Grass high low MNG Vulpia bromoides Squirrel-tail Fescue high low  MNG Briza minor Lesser Quaking-grass high low MNG Aira elegantissima Delicate Hair-grass high low  Published by the Victorian Government Department of Sustainability and Environment May 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 641: Riparian Woodland

Description:

Occurs beside permanent streams, typically on narrow alluvial deposits. Woodland to 20 m tall generally dominated by Eucalyptus camaldulensis over a tussock grass-dominated understorey. Tall shrubs may be present and amphibious herbs may occur in occasional ponds and beside creeks. While flooding may be common, sites are rarely inundated for lengthy periods.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 20% | Eucalyptus camaldulensis | River Red-gum |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Ozothamnus ferrugineus | **Common Name**  Tree Everlasting |
| MS | Bursaria spinosa ssp. spinosa | Sweet Bursaria |
| MS | Leptospermum obovatum | River Tea-tree |
| SS | Rubus parvifolius | Small-leaf Bramble |
| LH | Wahlenbergia gracilis s.s. | Sprawling Bluebell |
| LH | Brachyscome graminea | Grass Daisy |
| MH | Oxalis perennans | Grassland Wood-sorrel |
| MH | Mentha australis | River Mint |
| MH | Rumex brownii | Slender Dock |
| MH | Acaena novae-zelandiae | Bidgee-widgee |
| SH | Mimulus repens | Creeping Monkey-flower |
| SH | Mentha satureoides | Creeping mint |
| SH | Selliera radicans | Shiny Swamp-mat |
| SH | Dichondra repens | Kidney-weed |
| LTG | Lomandra longifolia | Spiny-headed Mat-rush |
| LTG | Carex appressa | Tall Sedge |
| LTG | Poa labillardierei var. labillardierei | Common Tussock-grass |
| LNG | Gahnia radula | Thatch Saw-sedge |
| MTG | Austrodanthonia setacea var. setacea | Bristly Wallaby-grass |
| GF | Pteridium esculentum | Austral Bracken |
| GF | Adiantum aethiopicum | Common Maidenhair |
| EP | Amyema pendula | Drooping Mistletoe |
| SC | Calystegia sepium | Large Bindweed |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 641: Riparian Woodland - Glenelg Plain bioregion | |
|  | **Recruitment:**  Episodic/Flood. Desirable period between disturbances is 5 years.  **Organic Litter:**  20 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Rosa rubiginosa Sweet Briar high high  LH Cirsium vulgare Spear Thistle high high  LH Sonchus oleraceus Common Sow-thistle high low  LH Plantago lanceolata Ribwort high low  LH Helminthotheca echioides Ox-tongue high low LH Rumex crispus Curled Dock high low  LH Rorippa palustris Marsh Yellow-cress high high  LH Aster subulatus Aster-weed high low MH Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low  MH Hypochoeris radicata Cat's Ear high low  LTG Phalaris aquatica Toowoomba Canary-grass high high  LNG Holcus lanatus Yorkshire Fog high high  SC Calystegia silvatica Greater Bindweed high high  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 647: Plains Sedgy Wetland

Description:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** Large Herb | **#Spp**  1 | **%Cover**  5% | **LF code**  LH |
| Medium Herb | 4 | 10% | MH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Large Non-tufted Graminoid | 1 | 10% | LNG |
| Medium to Small Tufted Graminoid | 4 | 40% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 10% | MNG |
| **Total understorey projective foliage cover** |  | **80%** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **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 |  | Gratiola pubescens | Glandular Brooklime |
| MH |  | Lilaeopsis polyantha | Australian Lilaeopsis |
| LTG |  | Amphibromus nervosus | Common Swamp Wallaby-grass |
| LNG |  | Baumea rubiginosa s.l. | Soft Twig-rush |
| MTG |  | Isolepis fluitans | Floating Club-sedge |
| MTG | k | Lachnagrostis filiformis (perennial variety) | Wetland Blown-grass |
| MTG |  | Juncus holoschoenus | Joint-leaf Rush |
| MTG |  | Lachnagrostis filiformis | Common Blown-grass |
| MNG |  | Eleocharis acuta | Common Spike-sedge |

Recruitment:

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

Organic Litter:

10% cover

Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 647: Plains Sedgy Wetland - Glenelg Plain bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Glenelg Plain bioregion

EVC 651: Plains Swampy Woodland

Description:

Eucalypt woodland to 15 m tall with ground layer dominated by tussock grasses, sedges and herbs. Shrubs are often scattered throughout. Occurs on poorly drained, seasonally waterlogged heavy soils.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 10% | Eucalyptus ovata | Swamp Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 4 | 15% | MS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 8 | 20% | MH |
| Small or Prostrate Herb | 5 | 5% | SH |
| Large Tufted Graminoid | 3 | 30% | LTG |
| Large Non-tufted Graminoid | 1 | 1% | LNG |
| Medium to Small Tufted Graminoid | 7 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Bryophytes/Lichens | na | 20% | BL |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  T |  | **Species typical of at least part of EVC range**  Acacia melanoxylon | **Common Name**  Blackwood |
| MS |  | Melaleuca gibbosa | Slender Honey-myrtle |
| MS |  | Leptospermum continentale | Prickly Tea-tree |
| MS |  | Ozothamnus ferrugineus | Tree Everlasting |
| MS |  | Allocasuarina paludosa | Scrub Sheoak |
| LH |  | Senecio tenuiflorus | Slender Fireweed |
| LH |  | Villarsia reniformis | Running Marsh-flower |
| MH |  | Asperula conferta | Common Woodruff |
| MH |  | Centella cordifolia | Centella |
| MH |  | Lobelia anceps | Angled Lobelia |
| MH |  | Acaena novae-zelandiae | Bidgee-widgee |
| SH |  | Eryngium vesiculosum | Prickfoot |
| SH |  | Oxalis exilis | Shady Wood-sorrel |
| SH | R r | Lobelia beaugleholei | Showy Lobelia |
| SH |  | Hypericum japonicum | Matted St John's Wort |
| LTG |  | Gahnia trifida | Coast Saw-sedge |
| LTG |  | Carex appressa | Tall Sedge |
| LTG |  | Poa labillardierei var. labillardierei | Common Tussock-grass |
| MTG |  | Poa clelandii | Noah's Ark |
| MTG |  | Lomandra filiformis | Wattle Mat-rush |
| MTG |  | Themeda triandra | Kangaroo Grass |
| MNG |  | Poa tenera | Slender Tussock-grass |
| MNG |  | Hemarthria uncinata var. uncinata | Mat Grass |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 651: Plains Swampy Woodland - Glenelg Plain 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  LH Sonchus oleraceus Common Sow-thistle high low  LH Sonchus asper s.l. Rough Sow-thistle high low  LH Cirsium vulgare Spear Thistle high high  MH Trifolium dubium Suckling Clover high low  MH Hypochoeris radicata Cat's Ear high low  MH Prunella vulgaris Self-heal high low MH Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low  LTG Festuca arundinacea Tall Fescue high high  LNG Holcus lanatus Yorkshire Fog high high  MTG Briza minor Lesser Quaking-grass high low  MTG Romulea rosea Onion Grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low MTG Anthoxanthum odoratum Sweet Vernal-grass high high  MNG Holcus setosus Annual Fog high low  MNG Juncus capitatus Capitate Rush high low  TTG Cyperus tenellus Tiny Flat-sedge high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 652: Lunette Woodland

Description:

An open, eucalypt woodland to 15 m tall with a grassy and herb-rich understorey. Occupies on generally fertile, relatively well- drained, clay-loam soils on source-bordering lunettes.

|  |  |  |
| --- | --- | --- |
| **Large trees:** |  | |
| **Species**  Eucalyptus spp. | **DBH(cm)**  80 cm | **#/ha**  8 / ha |

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 10% | Eucalyptus camaldulensis | River Red Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 3 | 10% | MS |
| Small Shrub | 2 | 1% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 8 | 15% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Medium to Small Tufted Graminoid | 12 | 45% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Acacia pycnantha | **Common Name**  Golden Wattle |
| MS | Acacia paradoxa | Hedge Wattle |
| SS | Pimelea humilis | Common Rice-flower |
| PS | Astroloma humifusum | Cranberry Heath |
| PS | Bossiaea prostrata | Creeping Bossiaea |
| MH | Oxalis perennans | Grassland Wood-sorrel |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Acaena echinata | Sheep's Burr |
| SH | Dichondra repens | Kidney-weed |
| SH | Hydrocotyle laxiflora | Stinking Pennywort |
| LTG | Austrostipa mollis | Supple Spear-grass |
| LTG | Austrostipa bigeniculata | Kneed Spear-grass |
| MTG | Elymus scaber var. scaber | Common Wheat-grass |
| MTG | Austrodanthonia setacea | Bristly Wallaby-grass |
| MTG | Austrodanthonia racemosa var. racemosa | Stiped Wallaby-grass |
| MTG | Tricoryne elatior | Yellow Rush-lily |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 652: Lunette Woodland – Glenelg Plain bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  10 % cover  **Logs:**  10 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Lycium ferocissimum African Box-thorn low high  LH Cirsium vulgare Spear Thistle high high  LH Sonchus oleraceus Common Sow-thistle high low  LH Plantago lanceolata Ribwort high low  MH Hypochoeris radicata Cat's Ear high low  LNG Holcus lanatus Yorkshire Fog high high  MTG Vulpia bromoides Squirrel-tail Fescue high low  MTG Romulea rosea Onion Grass high low  MTG Briza minor Lesser Quaking-grass high low  MTG Briza maxima Large Quaking-grass high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 653: Aquatic Herbland

Description:

Herbland of permanent to semi-permanent wetlands, dominated by sedges (especially on shallower verges) and/or aquatic herbs. Occurs on fertile paludal soils, typically heavy clays beneath organic accumulations.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Herb | 3 | 20% | MH |
| Large Tufted Graminoid | 1 | 25% | LTG |
| Medium to Small Tufted Graminoid | 4 | 25% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| **Total understorey projective foliage cover** |  | **70%** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  MH |  | **Species typical of at least part of EVC range**  Utricularia australis | **Common Name**  Yellow Bladderwort |
| MH |  | Myriophyllum simulans | Amphibious Water-milfoil |
| MH |  | Potamogeton tricarinatus s.l. | Floating Pondweed |
| LTG |  | Baumea articulata | Jointed Twig-sedge |
| MTG |  | Triglochin procerum s.l. | Water Ribbons |
| MTG |  | Isolepis fluitans | Floating Club-sedge |
| MTG | k | Lachnagrostis filiformis (perennial variety) | Wetland Blown-grass |
| MTG |  | Lachnagrostis filiformis | Common Blown-grass |
| MNG | v | Amphibromus sinuatus | Wavy Swamp Wallaby-grass |

Recruitment:

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

Organic Litter:

10% cover

Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 653: Aquatic Herbland - Glenelg Plain bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Glenelg Plain bioregion

EVC 656: Brackish Wetland

Description:

Treeless EVC dominated by sedges and herbs that are generally indicative of saline conditions. True halophytic species such as samphires, if present, only occur with very low cover. Occurs in estuaries and along poorly defined drainage lines or associated with shorelines of brackish lakes.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Large Herb | 1 | 5% | LH |
| Medium Herb | 3 | 15% | MH |
| Small or Prostrate Herb | 3 | 10% | SH |
| Large Tufted Graminoid | 1 | 10% | LTG |
| Large Non-tufted Graminoid | 2 | 10% | LNG |
| Medium to Small Tufted Graminoid | 2 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 15% | MNG |
| Scrambler or Climber | 1 | 1% | SC |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **80%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  LH | **Species typical of at least part of EVC range**  Persicaria decipiens | **Common Name**  Slender Knotweed |
| LH | Epilobium billardierianum ssp. billardierianum | Smooth Willow-herb |
| MH | Sarcocornia quinqueflora | Beaded Glasswort |
| MH | Samolus repens | Creeping Brookweed |
| MH | Suaeda australis | Austral Seablite |
| SH | Selliera radicans | Shiny Swamp-mat |
| SH | Crassula helmsii | Swamp Crassula |
| SH | Mimulus repens | Creeping Monkey-flower |
| LTG | Gahnia filum | Chaffy Saw-sedge |
| LNG | Juncus kraussii ssp. australiensis | Sea Rush |
| LNG | Phragmites australis | Common Reed |
| MTG | Poa poiformis | Coast Tussock-grass |
| MTG | Lachnagrostis filiformis | Common Blown-grass |
| MNG | Bolboschoenus caldwellii | Salt Club-sedge |
| MNG | Distichlis distichophylla | Australian Salt-grass |
| MNG | Schoenoplectus pungens | Sharp Club-sedge |
| MNG | Triglochin striatum | Streaked Arrowgrass |
| SC | Calystegia sepium | Large Bindweed |

Recruitment:

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

Organic Litter:

10% cover

Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 656: Brackish Wetland – Glenelg Plain bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Glenelg Plain bioregion

EVC 657: Freshwater Lignum Shrubland

Description:

Lignum-dominated shrubland to 2 m tall with a predominantly grassy-herbaceous ground layer. Occurs on fertile inundation- prone heavy soils mostly on the fringe of other wetland types.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 1 | 20% | MS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 3 | 20% | MH |
| Small or Prostrate Herb | 3 | 10% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 6 | 25% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 10% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Muehlenbeckia florulenta | **Common Name**  Lignum |
| LH | Brachyscome basaltica var. gracilis | Woodland Swamp-daisy |
| LH | Rumex brownii | Slender Dock |
| MH | Marsilea drummondii | Common Nardoo |
| MH | Alternanthera denticulata s.l. | Lesser Joyweed |
| MH | Myriophyllum muelleri | Hooded Water-milfoil |
| SH | Eryngium vesiculosum | Prickfoot |
| SH | Lobelia pratioides | Poison Lobelia |
| SH | Lobelia concolor | Poison Pratia |
| LTG | Amphibromus nervosus | Common Swamp Wallaby-grass |
| MTG | Juncus subsecundus | Finger Rush |
| MTG | Lachnagrostis filiformis | Common Blown-grass |
| MTG | Austrodanthonia duttoniana | Brown-back Wallaby-grass |
| MNG | Eleocharis acuta | Common Spike-sedge |
| MNG | Eleocharis pusilla | Small Spike-sedge |

Recruitment:

Episodic/Flood - Desirable period between disturbances is 10 years.

Organic Litter:

10 % cover

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Weediness: LF Code** | **Typical Weed Species** | **Common Name** | **Invasive** | **Impact** |
| MS LH  LH LH  LH LH LH  MH MH  MTG MTG  MTG MTG | Lycium ferocissimum Cirsium vulgare  Sonchus oleraceus Helminthotheca echioides  Cynara cardunculus Sonchus asper s.l. Aster subulatus  Hypochoeris radicata Cerastium glomeratum s.l.  Nassella trichotoma Lolium rigidum  Bromus hordeaceus ssp. hordeaceus Vulpia bromoides | African Box-thorn Spear Thistle  Common Sow-thistle Ox-tongue  Spanish Artichoke Rough Sow-thistle Aster-weed  Cat's Ear  Common Mouse-ear Chickweed Serrated Tussock  Wimmera Rye-grass  Soft Brome Squirrel-tail Fescue | high high  high high  high high high  high high  high high  high high | high high  low high  high low low  low low  high low  low low |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 657: Freshwater Lignum Shrubland – Glenelg Plain bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Glenelg Plain bioregion

EVC 664: Limestone Ridge Woodland

Description:

A non-eucalypt woodland to 10 m tall dominated by Acacia spp. with a dense, sedgy understorey on highly alkaline sandy loam soils. Occurs on limestone ridges with limited soil development.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus baxteri s.l. | Brown Stringybark |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 2 | 15% | T |
| Medium Shrub | 3 | 10% | MS |
| Small Shrub | 5 | 10% | SS |
| Large Herb | 4 | 10% | LH |
| Medium Herb | 4 | 5% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Medium to Small Tufted Graminoid | 4 | 30% | MTG |
| Scrambler or Climber | 1 | 1% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 664: Limestone Ridge Woodland - Glenelg Plain bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia pycnantha Golden Wattle  T Acacia longifolia s.l. Coast/Sallow Wattle  MS Leucopogon parviflorus Coast Beard-heath  MS Correa reflexa Common Correa  MS Banksia marginata Silver Banksia  SS Acrotriche affinis Ridged Ground-berry  SS Pimelea glauca Smooth Rice-flower  SS Hibbertia sericea s.l. Silky Guinea-flower  SS Astroloma conostephioides Flame Heath  LH Chrysocephalum apiculatum s.l. Common Everlasting  LH Senecio pinnatifolius Variable Groundsel  LH Senecio glomeratus Annual Fireweed  LH Senecio odoratus var. odoratus Scented Groundsel  MH Goodenia geniculata Bent Goodenia  MH Wahlenbergia gracilenta s.l. Annual Bluebell  MH Scaevola albida Small-fruit Fan-flower  MH Poranthera microphylla Small Poranthera  SH Dichondra repens Kidney-weed  LTG Austrostipa flavescens Coast Spear-grass  MTG r Lepidosperma canescens Hoary Rapier-sedge  MTG Lomandra multiflora ssp. multiflora Many-flowered Mat-rush  MTG Dichelachne rara Common Plume-grass  MTG Dianella longifolia Pale Flax-lily  SC Comesperma volubile Love Creeper  **Recruitment:**  Continuous  **Organic Litter:**  30 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Centaurium erythraea Common Centaury low low  MNG Aira praecox Early Hair-grass high low  MNG Aira cupaniana Small Hair-grass high low  Published by the Victorian Government Department of Sustainability and Environment December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 665: Coastal Mallee Scrub

Description:

Mallee eucalypt scrub to 4 m tall confined to Cape Nelson. The multi-stemmed habit of Coast Gum Eucalyptus diversifolia is a feature of this distinctive vegetation type that combines coastal and heath elements. Soil salinity and alkalinity determine the characteristics of this EVC.

Tree Canopy Cover:

|  |  |  |  |
| --- | --- | --- | --- |
| **%cover** |  | **Character Species** | **Common Name** |
| 40% | v | Eucalyptus diversifolia ssp. megacarpa  Melaleuca lanceolata ssp. lanceolata | Coast Gum  Moonah |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** Medium Shrub | **#Spp**  6 | **%Cover**  10% | **LF code**  MS |
| Small Shrub | 6 | 10% | SS |
| Large Herb | 2 | 1% | LH |
| Medium Herb | 3 | 5% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Medium to Small Tufted Graminoid | 7 | 15% | MTG |
| Scrambler or Climber | 1 | 1% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **60%** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  MS |  | **Species typical of at least part of EVC range**  Acacia longifolia ssp. sophorae | **Common Name**  Coast Wattle |
| MS |  | Acacia pycnantha | Golden Wattle |
| MS | r | Lasiopetalum schulzenii | Drooping Velvet-bush |
| MS |  | Rhagodia candolleana ssp. candolleana | Seaberry Saltbush |
| SS |  | Astroloma conostephioides | Flame Heath |
| SS |  | Hibbertia empetrifolia s.l. | Tangled Guinea-flower |
| SS |  | Hibbertia sericea s.l. | Silky Guinea-flower |
| SS |  | Spyridium vexilliferum var. vexilliferum | Winged Spyridium |
| LH |  | Senecio odoratus var. odoratus | Scented Groundsel |
| LH |  | Linum marginale | Native Flax |
| MH |  | Viola sieberiana spp. agg. | Tiny Violet |
| MH |  | Acaena novae-zelandiae | Bidgee-widgee |
| SH |  | Hydrocotyle laxiflora | Stinking Pennywort |
| LTG |  | Xanthorrhoea australis | Austral Grass-tree |
| LTG |  | Austrostipa flavescens | Coast Spear-grass |
| MTG |  | Lepidosperma filiforme | Common Rapier-sedge |
| MTG |  | Dichelachne crinita | Long-hair Plume-grass |
| MTG |  | Dianella brevicaulis | Small-flower Flax-lily |
| MTG |  | Dianella revoluta s.s. | Black-anther Flax-lily |
| SC |  | Clematis microphylla | Small-leaved Clematis |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 665: Coastal Mallee Scrub - Glenelg Plain bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  5 m/0.1 ha. (note: large log class does not apply)  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  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. |

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

Glenelg Plain bioregion

EVC 670: Limestone Woodland

Description:

A woodland to open woodland to 15 m tall with a locally dense Acacia shrub stratum and sparse ground layer. Occurs on red sandy (terra rossa) soils derived from limestone or sand stripped from limestone and re-deposited. The vegetation is strongly influenced by relatively high nutrient levels and alkalinity.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus baxteri s.l. | Brown Stringybark |

|  |  |  |  |
| --- | --- | --- | --- |
| **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 |
| Small Shrub | 3 | 10% | SS |
| Prostrate Shrub | 3 | 5% | PS |
| Large Herb | 3 | 10% | LH |
| Medium Herb | 4 | 5% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Tufted Graminoid | 3 | 5% | LTG |
| Medium to Small Tufted Graminoid | 4 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 670: Limestone Woodland - Glenelg Plain bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia pycnantha Golden Wattle  T Acacia mearnsii Black Wattle  T Melaleuca lanceolata ssp. lanceolata Moonah  MS Leucopogon parviflorus Coast Beard-heath  MS v Pomaderris halmaturina ssp. continentis Glenelg Pomaderris  MS Banksia marginata Silver Banksia  SS Astroloma conostephioides Flame Heath  PS Acrotriche serrulata Honey-pots  PS Astroloma humifusum Cranberry Heath  LH Senecio pinnatifolius Variable Groundsel  LH Wahlenbergia gymnoclada Naked Bluebell  LH Senecio odoratus var. odoratus Scented Groundsel  MH Cynoglssoum suaveolens Sweet Hound’s-tongue  SH Dichondra repens Kidney-weed  LTG Austrostipa flavescens Coast Spear-grass  LTG Xanthorrhoea australis Austral Grass-tree  MTG Austrostipa scabra Rough Spear-grass  MTG Austrodanthonia geniculata Kneed Wallaby-grass  MTG Dianella brevicaulis Small-flower Flax-lily  MTG Themeda triandra Kangaroo Grass  MNG Ficinia nodosa Knobby Club-sedge  **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  MH Centaurium erythraea Common Centaury low low  LNG Holcus lanatus Yorkshire Fog high high  MNG Aira cupaniana Small Hair-grass high low  Published by the Victorian Government Department of Sustainability and Environment December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 674: Sandy Stream Woodland

Description:

Reed, sedge or shrub-dominated woodland to 15 m tall with a large range of amphibious herbs. Occupies the beds of seasonal creeks where large amounts of course sand have been deposited by past flows, often resulting in a distinctive ‘U’ shape to the drainage line. Sites periodically inundated through the wetter months and soils moist throughout the year. Restricted to moderately high rainfall areas (>600 mm) where coarse parent material available upstream.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 10% | Eucalyptus camaldulensis  Eucalyptus ovata | River Red-gum  Swamp Gum |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia melanoxylon | **Common Name**  Blackwood |
| T | Acacia mearnsii | Black Wattle |
| MS | Leptospermum lanigerum | Woolly Tea-tree |
| MS | Leptospermum obovatum | River Tea-tree |
| MS | Leptospermum continentale | Prickly Tea-tree |
| MS | Ozothamnus ferrugineus | Tree Everlasting |
| SS | Rubus parvifolius | Small-leaf Bramble |
| MH | Oxalis perennans | Grassland Wood-sorrel |
| MH | Acaena novae-zelandiae | Bidgee-widgee |
| SH | Lobelia pratioides | Poison Lobelia |
| SH | Crassula helmsii | Swamp Crassula |
| LTG | Poa labillardierei | Common Tussock-garss |
| LNG | Phragmites australis | Common Reed |
| LNG | Typha domingensis | Cumbungi |
| MTG | Austrodanthonia racemosa var. racemosa | Stiped Wallaby-grass |
| MTG | Austrodanthonia caespitosa | Common Wallaby-grass |
| MTG | Juncus pauciflorus | Loose-flower Rush |
| MTG | Juncus caespiticius | Grassy Rush |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| MNG | Eleocharis acuta | Common Spike-sedge |
| MNG | Ficinia nodosa | Knobby Club-sedge |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 674: Sandy Stream Woodland – Glenelg Plain bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  T Salix fragilis Crack Willow high high  MS Lycium ferocissimum African Box-thorn low high MS Genista monspessulana Montpellier Broom high high  MS Rosa rubiginosa Sweet Briar low high  MS Rubus sp. aff. armeniacus Blackberry high high  LH Plantago lanceolata Ribwort high low  LH Sonchus oleraceus Common Sow-thistle high low  LH Hirschfeldia incana Buchan Weed high high LH Verbena bonariensis s.l. Purple-top Verbena high high  LH Rumex crispus Curled Dock high high  LH Rumex conglomeratus Clustered Dock high high  LH Conium maculatum Hemlock high high  LH Helminthotheca echioides Ox-tongue high low  LH Aster subulatus Aster-weed high low  LH Sonchus asper s.l. Rough Sow-thistle high low LH Solanum nigrum sensu Willis (1972) Black Nightshade high high  MH Brassica fruticulosa Twiggy Turnip high high  MH Hypochoeris radicata Cat's Ear high low  MH Foeniculum vulgare Fennel high high  SH Modiola caroliniana Red-flower Mallow high low  LTG Phalaris aquatica Toowoomba Canary-grass high high LTG Piptatherum miliaceum Rice Millet high high  MTG Ehrharta erecta var. erecta Panic Veldt-grass high high  MTG Paspalum dilatatum Paspalum high high  MTG Bromus catharticus Prairie Grass high low  MTG Romulea rosea Onion Grass high low  MTG Bromus diandrus Great Brome high low  MTG Briza maxima Large Quaking-grass high low  MTG Agrostis capillaris s.l. Brown-top Bent high high  MNG Dactylis glomerata Cocksfoot high high  MNG Paspalum distichum Water Couch high high SC Tradescantia fluminensis Wandering Jew high high  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 704: Lateritic Woodland

Description:

Low woodland to 15 m tall with a diverse shrubby understorey and supporting a wide variety of grasses and herbs, making it particularly species-rich. Occurs on gently undulating to flat ground with well-drained shallow lateritic soils of poor fertility.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus leucoxylon  Eucalyptus willisii  Eucalyptus viminalis ssp. cygnetensis Eucalyptus arenacea | Yellow Gum  Shining Peppermint  Rough-barked Manna-gum Desert Stringybark |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 11 | 25% | MS |
| Small Shrub | 11 | 20% | SS |
| Prostrate Shrub | 4 | 5% | PS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 14 | 10% | MH |
| Small or Prostrate Herb | 4 | 5% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Large Non-tufted Graminoid | 1 | 1% | LNG |
| Medium to Small Tufted Graminoid | 15 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 4 | 5% | MNG |
| Tiny Tufted Graminoid\* | 4 | 1% | TTG |
| Scrambler or Climber | 3 | 5% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

\* Largely seasonal life form

Recruitment:

Continuous

Organic Litter:

20% cover

Logs:

15 m / 0.1 ha

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 704: Lateritic Woodland – Glenelg Plain bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  MS Leptospermum myrsinoides Heath Tea-tree  MS Brachyloma daphnoides Daphne Heath  MS Banksia marginata Silver Banksia  SS Pimelea humilis Common Rice-flower  SS Astroloma conostephioides Flame Heath  SS Hibbertia stricta s.l. Upright Guinea-flower  SS Dillwynia sericea s.l. Showy Parrot-pea  PS Astroloma humifusum Cranberry Heath  PS Acrotriche serrulata Honey-pots  PS Styphelia adscendens Golden Heath  PS Bossiaea prostrata Creeping Bossiaea  LH Ixodia achillaeoides ssp. alata Ixodia  MH Drosera peltata ssp. peltata Pale Sundew  MH Chamaescilla corymbosa var. corymbosa Blue Stars  MH Burchardia umbellata Milkmaids  SH Hydrocotyle laxiflora Stinking Pennywort  SH Drosera glanduligera Scarlet Sundew  SH Siloxerus multiflorus Small Wrinklewort  SH Viola cleistogamoides Hidden Violet  LTG Xanthorrhoea australis Austral Grass-tree  LTG Austrostipa mollis Supple Spear-grass  LTG Xanthorrhoea minor ssp. lutea Small Grass-tree  LNG Gahnia radula Thatch Saw-sedge  MTG Dichelachne crinita Long-hair Plume-grass  MTG Pentapogon quadrifidus Five-awned Spear-grass  MTG Neurachne alopecuroidea Fox-tail Mulga-grass  MTG Dianella revoluta s.l. Black-anther Flax-lily  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Lepidobolus drapetocoleus Scale Shedder  MNG Hypolaena fastigiata Tassel Rope-rush  TTG Centrolepis strigosa ssp. strigosa Hairy Centrolepis  TTG Centrolepis aristata Pointed Centrolepis  TTG Schoenus breviculmis Matted Bog-sedge  TTG Isolepis marginata Little Club-sedge  EP Amyema miquelii Box Mistletoe  SC Thysanotus patersonii Twining Fringe-lily  SC Drosera macrantha Climbing Sundew  SC Cassytha pubescens s.s. Downy Dodder-laurel  SC Cassytha glabella Slender Dodder-laurel  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Sonchus oleraceus Common Sow-thistle high low  MH Hypochoeris glabra Smooth Cat's-ear high low MH Hypochoeris radicata Cat's Ear high low  MH Arctotheca calendula Cape Weed high low  MH Cerastium glomeratum s.l. Common Mouse-ear Chickweed high low MTG Briza minor Lesser Quaking-grass high low  MTG Romulea rosea Onion Grass high low  MTG Briza maxima Large Quaking-grass high low  MNG Aira elegantissima Delicate Hair-grass high low  MNG Aira cupaniana Quicksilver Grass high low  MNG Aira caryophyllea Silvery Hair-grass high low  TTG Cyperus tenellus Tiny Flat-sedge high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 707: Sedgy Swamp Woodland

Description:

Eucalypt woodland to 15 m tall with sedgy ground layer and a range of herbs tolerant of seasonal waterlogging. Occurs on poorly drained, seasonally wet flats on sandy soils over heavier subsoils.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 10% | Eucalyptus ovata  Eucalyptus camaldulensis | Swamp Gum  River Red Gum |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  *Leptospermum continentale* | **Common Name**  Prickly Tea-tree |
| LH  LH LTG | *Villarsia reniformis*  *Epilobium billardierianum Triglochin procerum* s.l. | Running Marsh-flower  Variable Willow-herb Water Ribbons |
| LTG  LNG LNG | *Baumea articulata*  *Lepidosperma longitudinale Baumea rubiginosa* s.l. | Jointed Twig-sedge  Pithy Sword-sedge Soft Twig-rush |

**Recruitment:**

Continuous

Organic Litter:

10 % cover

Logs:

10 m/0.1 ha.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 651: Sedgy Swamp Woodland - Glenelg Plain bioregion | |
|  | **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Plantago lanceolata Ribwort high low  LH Sonchus oleraceus Common Sow-thistle high low  LH Sonchus asper s.l. Rough Sow-thistle high low  LH Cirsium vulgare Spear Thistle high high  MH Trifolium dubium Suckling Clover high low  MH Hypochoeris radicata Cat's Ear high low  MH Prunella vulgaris Self-heal high low MH Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low LTG Festuca arundinacea Tall Fescue high high  LNG Holcus lanatus Yorkshire Fog high high  MTG Briza minor Lesser Quaking-grass high low  MTG Romulea rosea Onion Grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low MTG Anthoxanthum odoratum Sweet Vernal-grass high high MNG Holcus setosus Annual Fog high low  MNG Juncus capitatus Capitate Rush high low  TTG Cyperus tenellus Tiny Flat-sedge high low  Published by the Victorian Government Department of Sustainability and Environment December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 710: Damp Heathland

Description:

Developed on sites of intermittent waterlogging, typically wet in winter and dry in summer, with low nutrient availability. Closed tall heathland, or scrub if long unburnt. There is a dense ground layer of rushes and sedges, and sometimes emergent eucalypts.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 6 | 30% | MS |
| Small Shrub | 5 | 20% | SS |
| Prostrate Shrub | 2 | 5% | PS |
| Medium Herb | 6 | 10% | MH |
| Small or Prostrate Herb | 2 | 1% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Large Non-tufted Graminoid | 1 | 1% | LNG |
| Medium to Small Tufted Graminoid | 4 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 15% | MNG |
| Scrambler or Climber | 2 | 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**  Leptospermum continentale | **Common Name**  Prickly Tea-tree |
| MS | Epacris impressa | Common Heath |
| MS | Banksia marginata | Silver Banksia |
| MS | Leptospermum myrsinoides | Heath Tea-tree |
| SS | Pultenaea stricta | Rigid Bush-pea |
| SS | Hibbertia fasciculata var. prostrata | Bundled Guinea-flower |
| SS | Dillwynia glaberrima | Smooth Parrot-pea |
| SS | Leucopogon glacialis | Twisted Beard-heath |
| PS | Xanthosia dissecta s.l. | Cut-leaf Xanthosia |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Argentipallium obtusifolium | Blunt Everlasting |
| MH | Drosera peltata ssp. auriculata | Tall Sundew |
| SH | Drosera pygmaea | Tiny Sundew |
| MTG | Patersonia fragilis | Short Purple-flag |
| MTG | Schoenus apogon | Common Bog-sedge |
| MNG | Hypolaena fastigiata | Tassel Rope-rush |
| MNG | Leptocarpus tenax | Slender Twine-rush |
| MNG | Baumea juncea | Bare Twig-sedge |
| SC | Cassytha pubescens s.s. | Downy Dodder-laurel |
| SC | Cassytha glabella | Slender Dodder-laurel |

Recruitment:

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

Organic Litter:

20% cover

Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 710: Damp Heathland - Glenelg Plain bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Glenelg Plain bioregion

EVC 793: Damp Heathy Woodland

Description:

Woodland to 10 m tall with tall dense heathy understorey, which becomes tall scrub if long unburnt in high rainfall areas. The ground layer consists of grasses, herbs, small shrubs and tough-leaved monocots. Developed on sandy soils of moderate to low fertility, typically wet in winter due to impeding layer in soil and dry in summer.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 10% | Eucalyptus ovata | Swamp Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Medium Shrub | 8 | 30% | MS |
| Small Shrub | 7 | 20% | SS |
| Prostrate Shrub | 4 | 10% | PS |
| Large Herb | 2 | 1% | LH |
| Medium Herb | 7 | 10% | MH |
| Large Tufted Graminoid | 2 | 10% | LTG |
| Large Non-tufted Graminoid | 2 | 5% | LNG |
| Medium to Small Tufted Graminoid | 9 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 4 | 10% | MNG |
| Scrambler or Climber | 2 | 5% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 793: Damp Heathy Woodland - Glenelg Plain bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  MS Leptospermum continentale Prickly Tea-tree  MS Leptospermum myrsinoides Heath Tea-tree  MS Banksia marginata Silver Banksia  MS Hakea rostrata Beaked Hakea  SS Isopogon ceratophyllus Horny Cone-bush  SS Astroloma conostephioides Flame Heath  SS Pultenaea humilis Dwarf Bush-pea  SS v Hibbertia sessiliflora Heathy Guinea-flower  PS Styphelia adscendens Golden Heath  PS Astroloma humifusum Cranberry Heath  PS Acrotriche serrulata Honey-pots  PS Gompholobium ecostatum Dwarf Wedge-pea  LH Senecio glomeratus Annual Fireweed  MH Gonocarpus tetragynus Common Raspwort  MH Goodenia geniculata Bent Goodenia  MH Drosera peltata ssp. peltata Pale Sundew  LTG Xanthorrhoea minor ssp. lutea Small Grass-tree  LTG Austrostipa mollis Supple Spear-grass  LTG r Xanthorrhoea caespitosa Tufted Grass-tree  LNG Gahnia radula Thatch Saw-sedge  MTG Schoenus apogon Common Bog-sedge  MTG Lepidosperma congestum Clustered Sword-sedge  MTG Austrodanthonia setacea var. setacea Bristly Wallaby-grass  MTG Austrodanthonia geniculata Kneed Wallaby-grass  MNG Hypolaena fastigiata Tassel Rope-rush  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Baumea juncea Bare Twig-sedge  MNG Apodasmia brownii Coarse Twine-rush  TTG Centrolepis strigosa ssp. strigosa Hairy Centrolepis  TTG Centrolepis aristata Pointed Centrolepis  SC Cassytha pubescens s.s. Downy Dodder-laurel  SC Cassytha glabella Slender Dodder-laurel  **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 30 years.  **Organic Litter:**  20 % cover  **Logs:**  10 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  T Pinus radiata Radiata Pine high high MH Hypochoeris radicata Cat's Ear high low MH Centaurium erythraea Common Centaury high low LNG Holcus lanatus Yorkshire Fog high high  MTG Briza minor Lesser Quaking-grass high low  MNG Aira elegantissima Delicate Hair-grass high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 803: Plains Woodland

Description:

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

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus leucoxylon  Eucalyptus camaldulensis Allocasuarina luehmannii | Yellow Gum  River Red-gum Buloke |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Medium Shrub | 1 | 5% | MS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 20 | 25% | MH |
| Small or Prostrate Herb | 4 | 10% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Large Non-tufted Graminoid | 1 | 1% | LNG |
| Medium to Small Tufted Graminoid | 16 | 30% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 5% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| **Total understorey projective foliage cover** |  | **95%** |  |

**Recruitment:**

Continuous

Organic Litter:

20 % cover

Logs:

10 m/0.1 ha.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 803: Plains Woodland – Glenelg Plain bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  MS Acacia pycnantha Golden Wattle  PS Astroloma humifusum Cranberry Heath  LH Senecio quadridentatus Cotton Fireweed  MH Acaena echinata Sheep's Burr  MH Plantago gaudichaudii Narrow Plantain  MH Calocephalus citreus Lemon Beauty-heads  SH Solenogyne dominii Smooth Solenogyne  SH Oxalis perennans Grassland Wood-sorrel  SH Daucus glochidiatus Austral Carrot  SH Goodenia pinnatifida Cut-leaf Goodenia  LTG Austrostipa mollis Supple Spear-grass  MTG Austrodanthonia setacea Bristly Wallaby-grass  MTG Dianella revoluta s.s. Black-anther Flax-lily  MTG Austrodanthonia caespitosa Common Wallaby-grass  MNG Wurmbea dioica Common Early Nancy  TTG Centrolepis strigosa ssp. strigosa Hairy Centrolepis  TTG Centrolepis aristata Pointed Centrolepis  EP Amyema miquelii Box Mistletoe  SC Thysanotus patersonii Twining Fringe-lily  SC Convolvulus erubescens spp. agg. Pink Bindweed  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Sonchus oleraceus Common Sow-thistle high low  MH Hypochoeris radicata Cat's Ear high low MH Trifolium angustifolium var. angustifolium Narrow-leaf Clover high low  MH Hypochoeris glabra Smooth Cat's-ear high low  MH Arctotheca calendula Cape Weed high low  MH Petrorhagia velutina Velvety Pink high low  MH Trifolium dubium Suckling Clover high low  MH Anagallis arvensis Pimpernel high low  SH Trifolium glomeratum Cluster Clover high low  LNG Avena fatua Wild Oat high low  MTG Romulea rosea Onion Grass high low  MTG Briza minor Lesser Quaking-grass high low  MTG Briza maxima Large Quaking-grass high low  MTG Lolium rigidum Wimmera Rye-grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low  MNG Vulpia myuros Rat's-tail Fescue high low  MNG Juncus capitatus Capitate Rush high low  MNG Bromus rubens Red Brome high low  Published by the Victorian Government Department of Sustainability and Environment May 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 858: Coastal Alkaline Scrub (syn. Calcarenite Dune Woodland)

Description:

Near-coastal, deep calcareous (alkaline) and largely stable sand dunes and swales commonly dominated by Moonah Melaleuca lanceolata ssp. lanceolata. It occurs at low elevations of 20-60 m above sea level, average annual rainfall is approximately 550-

950 mm, and it occurs on a variety of geologies and soil types. Low woodland or tall shrubland to 8 m tall, typically with a medium shrub layer, small shrub layer and sedges, grasses and herbs in the ground layer.

Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Melaleuca lanceolata ssp. lanceolata  Allocasuarina verticillata | Moonah  Drooping Sheoak |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** Medium Shrub | **#Spp**  4 | **%Cover**  30% | **LF code**  MS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 2 | 1% | MH |
| Small or Prostrate Herb | 2 | 10% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 3 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 30% | MNG |
| Scrambler or Climber | 2 | 1% | SC |
| Bryophytes/Lichens | na | 20% | BL |
| **Total understorey projective foliage cover** |  | **90%** |  |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Acacia longifolia var. sophorae | **Common Name**  Coast Wattle |
| MS | Olearia axillaris | Coast Daisy-Bush |
| MS | Rhagodia candolleana ssp. candolleana | Seaberry Saltbush |
| MS | Leucopogon parviflorus | Coast Beard-heath |
| LH | Epilobium billardierianum ssp. billardierianum | Smooth Willow-herb |
| MH | Picris angustifolia ssp. angustifolia | Coast Picris |
| MH | Lobelia anceps | Angled Lobelia |
| SH | Carpobrotus rossii | Karkalla |
| LTG | Austrostipa flavescens | Coast Spear-grass |
| MTG | Lepidosperma gladiatum | Coast Sword-sedge |
| MTG | Lachnagrostis billardierei s.l. | Coast Blown-grass |
| MTG | Poa poiformis | Coast Tussock-grass |
| MTG | Dianella revoluta s.l. | Black-anther Flax-lily |
| MNG | Ficinia nodosa | Knobby Club-sedge |
| SC | Comesperma volubile | Love Creeper |
| SC | Clematis microphylla | Small-leaved Clematis |
| SC | Tetragonia implexicoma | Bower Spinach |

**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** |
| LH  MH LNG MNG | Sonchus oleraceus  Leontodon taraxacoides ssp. taraxacoides Holcus lanatus  Lagurus ovatus | Common Sow-thistle  Hairy Hawkbit Yorkshire Fog Hare's-tail Grass | high  high high high | low  low high low |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 858: Coastal Alkaline Scrub (syn. Calcarenite Dune Woodland) – Glenelg Plain bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Glenelg Plain bioregion

EVC 876: Spray-zone Coastal Shrubland

Description:

A wind-pruned salt-affected open shrubland usually less than 1 m tall (with occasional emergent taller shrubs) that occurs on the most exposed coastal areas subject to salt-spray and run-off at the crest of sea cliffs. This EVC usually occurs in association with taller Coastal Headland Scrub (EVC 161).

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Small Shrub | 1 | 5% | SS |
| Medium Herb | 4 | 10% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Bryophytes/Lichens | na | 20% | BL |
| Soil Crust | na | 20% | S/C |
| **Total understorey projective foliage cover** |  | **55%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  SS | **Species typical of at least part of EVC range**  Leucophyta brownii | **Common Name**  Cushion Bush |
| MH | Samolus repens | Creeping Brookweed |
| MH | Swainsona lessertiifolia | Coast Swainson-pea |
| MH | Senecio spathulatus s.l. | Dune Groundsel |
| MH | Sarcocornia quinqueflora | Beaded Glasswort |
| SH | Apium prostratum ssp. prostratum | Sea Celery |

Recruitment:

Continuous

Organic Litter:

10% cover

Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 876: Spray-zone Coastal Shrubland - Glenelg Plain bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Glenelg Plain bioregion

EVC 882: Shallow Sands Woodland

Description:

Woodland or open-forest to 15 m tall, with a sparse shrub layer of heathy, ericoid shrubs and a species-rich ground cover dominated by grasses and annual herbs. Sedges may be locally common. Typically it occurs between the heavier soils of the plains and the deep-sand aeolian dunefields which overlay these plains, but also occurs on broader areas of plains covered by shallow fluvial, outwash or aeolian sands overlaying drainage-impeding clays.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus leucoxylon  Eucalyptus baxteri s.l. Eucalyptus ovata | Yellow Gum  Brown Stringybark Swamp Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 2 | 15% | T |
| Medium Shrub | 3 | 5% | MS |
| Small Shrub | 4 | 10% | SS |
| Prostrate Shrub | 2 | 5% | PS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 17 | 20% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Medium to Small Tufted Graminoid | 11 | 25% | MTG |
| Medium to Tiny Non-tufted Graminoid | 4 | 10% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 882: Shallow Sands Woodland - Glenelg Plain bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia mearnsii Black Wattle  MS Leptospermum myrsinoides Heath Tea-tree  MS Brachyloma daphnoides Daphne Heath  SS Hibbertia stricta s.l. Upright Guinea-flower  SS Astroloma conostephioides Flame Heath  SS Pimelea humilis Common Rice-flower  SS Leucopogon virgatus Common Beard-heath  PS Astroloma humifusum Cranberry Heath  PS Acrotriche serrulata Honey-pots  PS Bossiaea prostrata Creeping Bossiaea  LH Senecio tenuiflorus Slender Fireweed  LH Senecio quadridentatus Cotton Fireweed  MH Chrysocephalum apiculatum s.l. Common Everlasting  MH Goodenia geniculata Bent Goodenia  SH Hydrocotyle laxiflora Stinking Pennywort  LTG Xanthorrhoea minor ssp. lutea Small Grass-tree  LTG Austrostipa mollis Supple Spear-grass  LTG r Xanthorrhoea caespitosa Tufted Grass-tree  MTG Schoenus apogon Common Bog-sedge  MTG Lomandra nana Dwarf Mat-rush  MTG Lepidosperma carphoides Black Rapier-sedge  MTG Austrodanthonia geniculata Kneed Wallaby-grass  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Hypolaena fastigiata Tassel Rope-rush  TTG Centrolepis strigosa ssp. strigosa Hairy Centrolepis  TTG Centrolepis aristata Pointed Centrolepis  SC Thysanotus patersonii Twining Fringe-lily  **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low MH Hypochoeris glabra Smooth Cat's-ear high low  MH Anagallis arvensis Pimpernel high low  MH Centaurium erythraea Common Centaury high low MH Cicendia filiformis Slender Cicendia high low  LNG Holcus lanatus Yorkshire Fog high high  MTG Briza minor Lesser Quaking-grass high low  MTG Briza maxima Large Quaking-grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low  MTG Vulpia spp. Fescue high low  MTG Romulea rosea Onion Grass high low  MNG Aira cupaniana Quicksilver Grass high low  MNG Aira caryophyllea Silvery Hair-grass high low  MNG Juncus capitatus Capitate Rush high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Glenelg Plain bioregion

EVC 895: Escarpment Shrubland

##### Description:

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

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

##### Large trees+:

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

**Tree Canopy Cover:**

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

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

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 895: Escarpment Shrubland - Glenelg Plain bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  15 m/0.1 ha**+**.  5 m/0.1 ha. (note: large log class does not apply)  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  T Schinus molle Pepper Tree high high  MS Lycium ferocissimum African Box-thorn high high MS Genista monspessulana Montpellier Broom high high SS Marrubium vulgare Horehound high high  LH Sonchus oleraceus Common Sow-thistle high low LH Helminthotheca echioides Ox-tongue high high  LH Lactuca serriola Prickly Lettuce high low  LH Sisymbrium officinale Hedge Mustard high high  LH Sonchus asper s.l. Rough Sow-thistle high low LH Verbascum thapsus ssp. thapsus Great Mullein high high LH Echium plantagineum Paterson's Curse high high LH Centaurium tenuiflorum Slender Centaury high low LH Foeniculum vulgare Fennel high high  MH Hypochoeris radicata Cat's Ear high low MH Trifolium arvense var. arvense Hare's-foot Clover high low MH Trifolium subterraneum Subterranean Clover high low MH Trifolium campestre var. campestre Hop Clover high low MH Trifolium angustifolium var. angustifolium Narrow-leaf Clover high low MH Lotus suaveolens Hairy Bird's-foot Trefoil high low MH Cerastium glomeratum s.l. Common Mouse-ear Chickweed high low SH Medicago polymorpha Burr Medic high low  SH Trifolium glomeratum Cluster Clover high low  SH Modiola caroliniana Red-flower Mallow high low  SH Aptenia cordifolia Heart-leaf Ice-plant high high  LTG Phalaris aquatica Toowoomba Canary-grass high high  LNG Holcus lanatus Yorkshire Fog high high  LNG Avena fatua Wild Oat high low  MTG Nassella trichotoma Serrated Tussock high high  MTG Ehrharta longiflora Annual Veldt-grass high low  MTG Briza maxima Large Quaking-grass high low MTG Bromus hordeaceus ssp. hordeaceus Soft Brome high low MTG Sporobolus africanus Rat-tail Grass high high  MTG Vulpia bromoides Squirrel-tail Fescue high low  MTG Romulea rosea Onion Grass high low MTG Pentaschistis airoides ssp. airoides False Hair-grass high low MTG Lolium perenne Perennial Rye-grass high high  MTG Dactylis glomerata Cocksfoot high high  MTG Vulpia myuros Rat's-tail Fescue high low  MTG Bromus rubens Red Brome high low  MTG Avena barbata Bearded Oat high low  MTG Aira caryophyllea Silvery Hair-grass high low  SC Vicia sativa ssp. sativa Common Vetch high low  Published by the Victorian Government Department of Sustainability and Environment January 2005  © The State of Victoria Department of Sustainability and Environment 2005  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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