

### EVC/Bioregion Benchmark for Vegetation Quality Assessment

Wilsons Promontory bioregion

EVC 2: Coast Banksia Woodland

#### Description:

Restricted to near coastal localities on secondary or tertiary dunes behind Coastal Dune Scrub. Usually dominated by a woodland overstorey of Coast Banksia Banksia integrifolia to 15 m tall over a medium shrub layer. The understorey consists of a number of herbs and sedges, including scramblers.

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

#### Tree Canopy Cover:

**%cover Character Species Common Name**

15% Banksia integrifolia ssp. integrifolia Coast Banksia

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

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| **LF Code**  T | **Species typical of at least part of EVC range**  Myoporum insulare | **Common Name**  Common Boobialla |
| T | Acacia longifolia ssp. sophorae | Coast Wattle |
| MS | Rhagodia candolleana ssp. candolleana | Seaberry Saltbush |
| MS | Melaleuca ericifolia | Swamp Paperbark |
| MS | Leptospermum laevigatum | Coast Tea-tree |
| MS | Monotoca elliptica s.l. | Tree Broom-heath |
| LH | Senecio linearifolius | Fireweed Groundsel |
| LH | Urtica incisa | Scrub Nettle |
| MH | Senecio biserratus | Jagged Fireweed |
| MH | Lobelia anceps | Angled Lobelia |
| MH | Sambucus gaudichaudiana | White Elderberry |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| SH | Dichondra repens | Kidney-weed |
| SH | Apium prostratum ssp. prostratum | Sea Celery |
| LTG | Carex appressa | Tall Sedge |
| MTG | Lepidosperma gladiatum | Coast Sword-sedge |
| MTG | Isolepis inundata | Swamp Club-sedge |
| MNG | Ficinia nodosa | Knobby Club-sedge |
| GF | Pteridium esculentum | Austral Bracken |
| SC | Tetragonia implexicoma | Bower Spinach |
| SC | Galium australe | Tangled Bedstraw |

Ecological Vegetation Class bioregion benchmark

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| EVC 2: Coast Banksia Woodland - Wilsons Promontory bioregion | |
|  | **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 30 years.  **Organic Litter:**  40 % cover  **Logs:**  10 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Senecio jacobaea Ragwort high low  LH Conyza bonariensis Flaxleaf Fleabane high low  MH Hypochoeris radicata Cat's Ear high low  MH Centaurium erythraea Common Centaury high low  LNG Holcus lanatus Yorkshire Fog high high  Published by the Victorian Government Department of Sustainability and Environment May 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Wilsons Promontory 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 viminalis ssp. pryoriana Rough-barked Manna Gum

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

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| **LF Code**  T | **Species typical of at least part of EVC range**  Banksia integrifolia ssp. integrifolia | **Common Name**  Coast Banksia |
| MS | Banksia serrata | Saw Banksia |
| MS | Epacris impressa | Common Heath |
| MS | Leptospermum continentale | Prickly Tea-tree |
| MS | Leptospermum myrsinoides | Heath Tea-tree |
| SS | Leucopogon virgatus | Common Beard-heath |
| SS | Dillwynia glaberrima | Smooth Parrot-pea |
| SS | Amperea xiphoclada var. xiphoclada | Broom Spurge |
| PS | Astroloma humifusum | Cranberry Heath |
| PS | Hibbertia acicularis | Prickly Guinea-flower |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Drosera peltata ssp. auriculata | Tall Sundew |
| MH | Geranium solanderi s.l. | Austral Cranesbill |
| MH | Gonocarpus humilis | Shade Raspwort |
| SH | Hydrocotyle laxiflora | Stinking Pennywort |
| SH | Opercularia varia | Variable Stinkweed |
| SH | Dichondra repens | Kidney-weed |
| SH | Poranthera microphylla | Small Poranthera |
| LTG | Lomandra longifolia | Spiny-headed Mat-rush |
| LTG | Austrostipa mollis | Supple Spear-grass |
| LNG | Tetrarrhena juncea | Forest Wire-grass |
| MTG | Lepidosperma concavum | Sandhill Sword-sedge |
| MTG | Dianella revoluta s.l. | Black-anther Flax-lily |
| MTG | Lomandra filiformis | Wattle-headed Mat-rush |
| MTG | Poa sieberiana | Grey Tussock-grass |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| GF | Pteridium esculentum | Austral Bracken |

Ecological Vegetation Class bioregion benchmark

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| EVC 3: Damp Sands Herb-rich Woodland - Wilsons Promontory bioregion | |
|  | **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 LTG Anthoxanthum odoratum Sweet Vernal Grass high high LNG Holcus lanatus Yorkshire Fog high high  STG Briza minor Lesser Quaking-grass high high  Published by the Victorian Government Department of Sustainability and Environment May 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Wilsons Promontory bioregion

EVC 5: Coastal Sand Heathland

#### Description:

An open or closed heathland occurring only on the most exposed coastal headlands exposed to extreme exposure to wind and salt-spray. Often wind-striped patterns in the vegetation are typically evident.

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| **Life forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Small Shrub | 10 | 55% | SS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 2 | 5% | MH |
| Small Herb | 1 | 1% | SH |
| Medium to Small Tufted Graminoid | 4 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| **Total understorey projective foliage cover** |  | **60%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  SS | **Species typical of at least part of EVC range**  Alyxia buxifolia | **Common Name**  Sea Box |
| SS | Exocarpos syrticola | Coast Ballart |
| SS | Correa alba | White Correa |
| SS | Kunzea ambigua | White Kunzea |
| LH | Chrysocephalum apiculatum s.l. | Common Everlasting |
| MH | Chrysocephalum baxteri | White Everlasting |
| MTG | Poa poiformis | Coast Tussock-grass |
| MTG | Austrodanthonia setacea | Bristly Wallaby-grass |
| MTG | Lepidosperma concavum | Sandhill Sword-sedge |
| MTG | Lomandra longifolia | Spiny-headed Mat-rush |
| MNG | Baumea juncea | Bare Twig-sedge |

#### Recruitment:

Continuous

#### Organic Litter:

40% cover

#### Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

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| EVC 5: Coastal Sand Heathland – Wilsons Promontory bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Wilsons Promontory 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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| **Life Forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 7 | 40% | MS |
| Small Shrub | 6 | 15% | SS |
| Prostrate Shrub | 2 | 1% | PS |
| Medium Herb | 3 | 5% | MH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 3 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Ground Fern | 1 | 1% | GF |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **70%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Leptospermum myrsinoides | **Common Name**  Heath Tea-tree |
| MS | Epacris impressa | Common Heath |
| MS | Leptospermum continentale | Prickly Tea-tree |
| MS | Banksia marginata | Silver Banksia |
| SS | Platylobium obtusangulum | Common Flat-pea |
| SS | Dillwynia glaberrima | Smooth Parrot-pea |
| SS | Xanthosia tridentata | Hill Xanthosia |
| SS | Leucopogon virgatus | Common Beard-heath |
| PS | Xanthosia pusilla spp. agg. | Heath Xanthosia |
| PS | Acrotriche serrulata | Honey-pots |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Drosera peltata ssp. auriculata | Tall Sundew |
| MH | Platysace heterophylla | Slender Platysace |
| LTG | Lomandra longifolia | Spiny-headed Mat-rush |
| MTG | Lepidosperma concavum | Sandhill Sword-sedge |
| MTG | Patersonia glabrata | Leafy Purple-flag |
| MTG | Lepidosperma filiforme | Common Rapier-sedge |
| MTG | Lomandra filiformis | Wattle Mat-rush |
| MNG | Hypolaena fastigiata | Tassel Rope-rush |
| MNG | Schoenus brevifolius | Zig-zag Bog-sedge |
| GF | Lindsaea linearis | Screw Fern |
| SC | Cassytha glabella | Slender Dodder-laurel |

#### Recruitment:

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

#### Organic Litter:

20% cover

#### Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

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

Wilsons Promontory 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 | 5 | 50% | MS |
| Small Shrub | 2 | 5% | SS |
| Large Herb | 1 | 5% | LH |
| Medium Herb | 2 | 5% | MH |
| Large Tufted Graminoid | 3 | 20% | LTG |
| Large Non-tufted Graminoid | 1 | 1% | LNG |
| Medium to Small Tufted Graminoid | 2 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 4 | 20% | MNG |
| Ground Fern | 1 | 10% | GF |
| Scrambler or Climber | 1 | 1% | SC |
| Bryophytes/Lichens | na | 20% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Leptospermum continentale | **Common Name**  Prickly Tea-tree |
| MS | Melaleuca squarrosa | Scented Paperbark |
| MS | Epacris obtusifolia | Blunt-leaf Heath |
| MS | Sprengelia incarnata | Pink Swamp-heath |
| SS | Epacris lanuginosa | Woolly-style Heath |
| LH | Xyris operculata | Tall Yellow-eye |
| MH | Selaginella uliginosa | Swamp Selaginella |
| LTG | Xanthorrhoea australis | Austral Grass-tree |
| LTG | Gymnoschoenus sphaerocephalus | Button Grass |
| LTG | Baloskion tetraphyllum ssp. tetraphyllum | Tassel Cord-rush |
| MTG | Lepidosperma filiforme | Common Rapier-sedge |
| MNG | Leptocarpus tenax | Slender Twine-rush |
| MNG | Empodisma minus | Spreading Rope-rush |
| MNG | Baumea tetragona | Square Twig-sedge |
| MNG | Schoenus brevifolius | Zig-zag Bog-sedge |
| GF | Gleichenia dicarpa | Pouched Coral-fern |
| GF | Lindsaea linearis | Screw Fern |
| SC | Cassytha glabella | Slender Dodder-laurel |

#### Recruitment:

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

#### Organic Litter:

20% cover

#### Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

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| EVC 8: Wet Heathland - Wilsons Promontory bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Wilsons Promontory bioregion

EVC 9: Coastal Saltmarsh

#### Description:

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

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| **Life Forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 1 | 20% | MS |
| Small Shrub | 1 | 1% | SS |
| Medium Herb | 3 | 20% | MH |
| Small or Prostrate Herb | 2 | 15% | SH |
| Large Non-tufted Graminoid | 1 | 1% | LNG |
| Medium to Small Tufted Graminoid | 1 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 10% | MNG |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **70%** |  |

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| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Sclerostegia arbuscula | **Common Name**  Shrubby Glasswort |
| SS | Suaeda australis | Austral Seablite |
| SS | Frankenia pauciflora var. gunnii | Southern Sea-heath |
| MH | Sarcocornia quinqueflora | Beaded Glasswort |
| MH | Samolus repens | Creeping Brookweed |
| MH | Limonium australe | Yellow Sea-lavender |
| MH | Hemichroa pentandra | Trailing Hemichroa |
| SH | Disphyma crassifolium ssp. clavellatum | Rounded Noon-flower |
| SH | Mimulus repens | Creeping Monkey-flower |
| MNG | Sporobolus virginicus | Salt Couch |
| MNG | Triglochin striatum | Streaked Arrowgrass |
| MNG | Distichlis distichophylla | Australian Salt-grass |
| MTG | Juncus revolutus | Creeping Rush |

#### Recruitment:

Continuous

#### Organic Litter:

10 % cover

#### Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

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| EVC 9: Coastal Saltmarsh - Wilsons Promontory bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Wilsons Promontory bioregion

EVC 10: Estuarine Wetland

#### Description:

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

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

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

#### Recruitment:

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

#### Organic Litter:

10% cover

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

Ecological Vegetation Class bioregion benchmark

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| EVC 10: Estuarine Wetland - Wilsons Promontory bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Wilsons Promontory bioregion

EVC 11: Coastal Lagoon Wetland

#### Description:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 2 | 5% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Tufted Graminoid | 2 | 10% | LTG |
| Large Non-tufted Graminoid | 2 | 15% | LNG |
| Medium to Small Tufted Graminoid | 1 | 1% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| **Total understorey projective foliage cover** |  | **40%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code** | **Species typical of at least part of EVC range** | **Common Name** |
| LTG  LNG LNG | Triglochin procerum s.l.  Phragmites australis Eleocharis sphacelata | Water Ribbons  Common Reed Tall Spike-sedge |

#### Recruitment:

Continuous

#### Organic Litter:

20% cover

#### Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 11: Coastal Lagoon Wetland - Wilsons Promontory bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Wilsons Promontory bioregion

EVC 12: Wet Swale Herbland

#### Description:

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

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  LH | **Species typical of at least part of EVC range**  Villarsia reniformis | **Common Name**  Running Marsh-flower |
| LH | Plantago lanceolata | Ribwort |
| MH | Potamogeton tricarinatus s.l. | Floating Pondweed |
| MH | Myriophyllum simulans | Amphibious Water-milfoil |
| MH | Acaena novae-zelandiae | Bidgee-widgee |
| MH | Lobelia anceps | Angled Lobelia |
| SH | Dichondra repens | Kidney-weed |
| SH | Hydrocotyle sibthorpioides | Shining Pennywort |
| SH | Asperula subsimplex | Water Woodruff |
| LTG | Lomandra longifolia | Spiny-headed Mat-rush |
| LNG | Eleocharis sphacelata | Tall Spike-sedge |
| MTG | Lepidosperma concavum | Sandhill Sword-sedge |
| MTG | Isolepis fluitans | Floating Club-sedge |
| MTG | Lachnagrostis filiformis | Common Blown-grass |
| MTG | Triglochin procerum s.l. | Water Ribbons |
| MNG | Imperata cylindrica | Blady Grass |
| MNG | Hemarthria uncinata var. uncinata | Mat Grass |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| MNG | Ficinia nodosa | Knobby Club-sedge |
| GF | Pteridium esculentum | Austral Bracken |
| SC | Billardiera scandens | Common Apple-berry |
| SC | Glycine clandestina | Twining Glycine |

#### Recruitment:

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

#### Organic Litter:

10% cover

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Weediness: LF Code** | **Typical Weed Species** | **Common Name** | **Invasive** | **Impact** |
| MH  MH | Hypochoeris radicata  Leontodon taraxacoides ssp. taraxacoides | Cat's Ear  Hairy Hawkbit | high  high | low  low |
| MH | Prunella vulagaris | Self-heal | high | low |
| LNG | Holcus lanatus | Yorkshire Fog | high | low |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 12: Wet Swale Herbland – Wilsons Promontory bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Wilsons Promontory bioregion

EVC 16: Lowland Forest

#### Description:

Open forest to 25 m tall characterised by the diversity of species and lifeforms in each stratum. It grows on a wide variety of geology and soils but usually aeolian sand deposits on the plains.

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

#### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus obliqua | Messmate Stringybark |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Hakea decurrens | **Common Name**  Bushy Needlewood |
| MS | Banksia spinulosa var. cunninghamii | Hairpin Banksia |
| MS | Banksia marginata | Silver Banksia |
| MS | Acacia verticillata | Prickly Moses |
| SS | Amperea xiphoclada var. xiphoclada | Broom Spurge |
| SS | Hibbertia aspera s.l. | Rough Guinea-flower |
| PS | Acrotriche serrulata | Honey-pots |
| MH | Gonocarpus humilis | Shade Raspwort |
| MH | Drosera peltata ssp. auriculata | Tall Sundew |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| SH | Opercularia varia | Variable Stinkweed |
| LTG | Xanthorrhoea minor ssp. lutea | Small Grass-tree |
| LNG | Tetrarrhena juncea | Forest Wire-grass |
| MTG | Lomandra filiformis | Wattle Mat-rush |
| MTG | Poa australis spp. agg. | Tussock Grass |
| MTG | Diplarrena moraea | Butterfly Flag |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| GF | Pteridium esculentum | Austral Bracken |
| SC | Billardiera scandens | Common Apple-berry |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 16: Lowland Forest - Wilsons Promontory bioregion | |
|  | **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  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**

Wilsons Promontory 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. The soil is 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.

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

#### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Eucalyptus ovata  Eucalyptus radiata s.l.  Eucalyptus obliqua Eucalyptus viminalis | Swamp Gum  Narrow-leaf Peppermint Messmate Stringybark  Manna Gum |

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 18: Riparian Forest - Wilsons Promontory bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia dealbata Silver Wattle  MS Acacia verticillata Prickly Moses  MS Goodenia ovata Hop Goodenia  MS Ozothamnus ferrugineus Tree Everlasting  MS Leptospermum continentale Prickly Tea-tree  LH Senecio linearifolius Fireweed Groundsel  MH Acaena novae-zelandiae Bidgee-widgee  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  SH Dichondra repens Kidney-weed  SH Oxalis corniculata s.l. Yellow Wood-sorrel  SH Galium propinquum Maori Bedstraw  SH Hydrocotyle hirta Hairy Pennywort  LTG Gahnia sieberiana Red-fruit Saw-sedge  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Carex appressa Tall Sedge  LNG Tetrarrhena juncea Forest Wire-grass  MTG Lepidosperma laterale Variable Sword-sedge  MTG Dianella tasmanica Tasman Flax-lily  MTG Poa australis spp. agg. Tussock Grass  MNG Poa tenera Slender Tussock-grass  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Echinopogon ovatus Common Hedgehog-grass  GF Pteridium esculentum Austral Bracken  GF Adiantum aethiopicum Common Maidenhair  GF Blechnum nudum Fishbone Water-fern  GF Blechnum minus Soft Water-fern  TRF Cyathea australis Rough Tree-fern  TRF Dicksonia antarctica Soft Tree-fern  SC Clematis aristata Mountain Clematis  **Recruitment:**  Continuous  **Organic Litter:**  50 % cover  **Logs:**  30 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Rubus fruticosus spp. agg. Blackberry high high LH Sonchus oleraceus Common Sow-thistle high low  LH Plantago lanceolata Ribwort high low  LH Cirsium vulgare Spear Thistle high high MH Hypochoeris radicata Cat's Ear high low  MH Prunella vulgaris Self-heal high low  LNG Holcus lanatus Yorkshire Fog high high MTG Anthoxanthum odoratum Sweet Vernal-grass high high  SC Galium aparine Cleavers 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**

Wilsons Promontory bioregion

EVC 28: Rocky Outcrop Shrubland

#### Description:

Occurs in areas of low site quality on exposed rocky outcrops where rock is a dominant landform feature, soils are shallow or virtually absent and effective rainfall is low. Scattered, often stunted trees are occasionally present. A diverse shrub layer to 4 m tall characterises this EVC, including a number of rock-adapted species. The ground layer is usually sparse and species-poor except where it occurs in discrete patches and forms a mosaic with Rocky Outcrop Herbland.

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 7 | 25% | MS |
| Small Shrub | 2 | 5% | SS |
| Prostrate Shrub | 2 | 5% | PS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 2 | 1% | MH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Medium to Small Tufted Graminoid | 4 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Ground Fern | 1 | 1% | GF |
| Bryophytes/Lichens | na | 20% | BL |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **75%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Kunzea ambigua | **Common Name**  White Kunzea |
| MS | Callistemon pallidus | Lemon Bottlebrush |
| MS | Acacia stricta | Hop Wattle |
| MS | Leptospermum continentale | Prickly Tea-tree |
| SS | Hibbertia aspera s.l. | Rough Guinea-flower |
| PS | Acrotriche serrulata | Honey-pots |
| PS | Acrotriche prostrata | Trailing Ground-berry |
| LH | Helichrysum leucopsideum | Satin Everlasting |
| LH | Senecio pinnatifolius | Variable Groundsel |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| LTG | Deyeuxia quadriseta | Reed Bent-grass |
| LTG | Lepidosperma elatius | Tall Sword-sedge |
| MTG | Lepidosperma concavum | Sandhill Sword-sedge |
| MTG | Luzula meridionalis var. flacccida | Common Wood-rush |
| MTG | Diplarrena moraea | White Iris |
| MTG | Carex breviculmis | Common Grass-sedge |
| MNG | Deyeuxia rodwayi | Tasman Bent-grass |
| GF | Asplenium flabellifolium | Necklace Fern |

#### Recruitment:

Continuous

#### Organic Litter:

40 % cover

#### Logs:

10 m/0.1 ha.

#### Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

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

Wilsons Promontory bioregion

EVC 29: Damp Forest

#### Description:

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

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

#### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Eucalyptus obliqua | Messmate Stringybark |

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 29: Damp Forest - Wilsons Promontory bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Pomaderris aspera Hazel Pomaderris  T Elaeocarpus reticulatus Blue Oliveberry  T Acacia melanoxylon Blackwood  MS Acacia verticillata Prickly Moses  MS Goodenia ovata Hop Goodenia  MS Coprosma quadrifida Prickly Currant-bush  MS Melaleuca squarrosa Scented Paperbark  SS Amperea xiphoclada var. xiphoclada Broom Spurge  MH Viola hederacea sensu Willis (1972) Ivy-leaf Violet  MH Gonocarpus humilis Shade Raspwort  MH Hydrocotyle hirta Hairy Pennywort  LTG Lepidosperma elatius Tall Sword-sedge  LTG Gahnia sieberiana Red-fruit Saw-sedge  LTG Gahnia clarkei Tall Saw-sedge  LNG Tetrarrhena juncea Forest Wire-grass  MTG Lepidosperma laterale Variable Sword-sedge  MTG Diplarrena moraea White Iris  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Pteridium esculentum Austral Bracken  GF Calochlaena dubia Common Ground-fern  GF Gleichenia microphylla Scrambling Coral-fern  GF Blechnum nudum Fishbone Water-fern  TRF Cyathea australis Rough Tree-fern  TRF Todea barbara Austral King-fern  SC Clematis aristata Mountain Clematis  SC Billardiera scandens Common Apple-berry  SC Pandorea pandorana Wonga Vine  **Recruitment:**  Continuous  **Organic Litter:**  50 % cover  **Logs:**  30 m/0.1 ha.  **Weediness:**  There are no consistent weeds in this EVC.  Published by the Victorian Government Department of Sustainability and Environment May 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Wilsons Promontory bioregion

EVC 30: Wet Forest

#### Description:

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

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

#### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Eucalyptus regnans  Eucalyptus obliqua | Mountain Ash  Messmate |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 4 | 25% | T |
| Medium Shrub | 3 | 15% | MS |
| Medium Herb | 3 | 5% | MH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 1 | 1% | MTG |
| Ground Fern | 4 | 15% | GF |
| Tree Fern | 2 | 5% | TRF |
| Epiphyte | 2 | 1% | EP |
| Scrambler or Climber | 2 | 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 | Olearia argophylla | Musk Daisy-bush |
| T | Acacia melanoxylon | Blackwood |
| T | Pittosporum bicolor | Banyalla |
| MS | Coprosma quadrifida | Prickly Currant-bush |
| MS | Tasmannia lanceolata | Mountain Pepper |
| MS | Hedycarya angustifolia | Austral Mulberry |
| MS | Olearia lirata | Snowy Daisy-bush |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| MH | Hydrocotyle hirta | Hairy Pennywort |
| MH | Sambucus gaudichaudiana | White Elderberry |
| MH | Australina pusilla ssp. muelleri | Shade Nettle |
| LTG | Lepidosperma elatius | Tall Sword-sedge |
| LTG | Gahnia sieberiana | Red-fruit Saw-sedge |
| LNG | Tetrarrhena juncea | Forest Wire-grass |
| MTG | Lepidosperma laterale | Variable Sword-sedge |
| MNG | Uncinia tenella | Delicate Hook-sedge |
| GF | Pteridium esculentum | Austral Bracken |
| GF | Polystichum proliferum | Mother Shield-fern |
| GF | Blechnum wattsii | Hard Water-fern |
| GF | Grammitis billardierei | Common Finger-fern |
| TRF | Dicksonia antarctica | Soft Tree-fern |
| TRF | Cyathea australis | Rough Tree-fern |
| EP | Microsorum pustulatum ssp. pustulatum | Kangaroo Fern |
| EP | Rumohra adiantiformis | Leathery Shield-fern |
| SC | Clematis aristata | Mountain Clematis |

Ecological Vegetation Class bioregion benchmark

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

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

Wilsons Promontory bioregion

EVC 31: Cool Temperate Rainforest

#### Description:

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

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

#### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 50% | Nothofagus cunninghamii  Atherosperma moschatum Acacia melanoxylon | Myrtle Beech  Southern Sassafras Blackwood |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 2 | 5% | MS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 2 | 5% | MH |
| Ground Fern | 6 | 15% | GF |
| Tree Fern | 3 | 40% | TRF |
| Epiphyte | 5 | 5% | EP |
| Scrambler or Climber | 2 | 1% | SC |
| Bryophytes/Lichens | na | 40% | BL |

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

T Olearia argophylla Musk Daisy-bush

MS Hedycarya angustifolia Austral Mulberry

LH Urtica incisa Scrub Nettle

MH Australina pusilla ssp. muelleri Shade Nettle

GF Polystichum proliferum Mother Shield-fern

GF Grammitis billardierei Common Finger-fern

GF Asplenium bulbiferum ssp. gracillimum Mother Spleenwort

GF Blechnum wattsii Hard Water-fern

TRF Dicksonia antarctica Soft Tree-fern

TRF R v Cyathea cunninghamii Slender Tree-fern

TRF v Cyathea X marcescens Skirted Tree-fern

EP Microsorum pustulatum ssp. pustulatum Kangaroo Fern

EP Fieldia australis Fieldia

EP Rumohra adiantiformis Leathery Shield-fern

EP Crepidomanes venosum Veined Bristle-fern

SC Clematis aristata Mountain Clematis

#### Recruitment:

Continuous

#### Organic Litter:

50 % cover

#### Logs:

20 m/0.1 ha.

#### Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 31: Cool Temperate Rainforest - Wilsons Promontory bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Wilsons Promontory bioregion

EVC 32: Warm Temperate Rainforest

#### Description:

Closed forest to 25 m tall occurring along small streams and narrow coastal fringes associated with lakes and estuaries. Dominated by a range of non-eucalypt canopy species above an understorey of smaller trees and shrubs and usually visually dominated by ferns and climbers.

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

#### Tree Canopy Cover:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 3 | 10% | T |
| Medium Shrub | 3 | 10% | MS |
| Medium Herb | 3 | 5% | MH |
| Large Tufted Graminoid | 2 | 10% | LTG |
| Ground Fern | 5 | 20% | GF |
| Tree Fern | 3 | 30% | TRF |
| Epiphyte | 6 | 5% | EP |
| Scrambler or Climber | 2 | 5% | SC |
| Bryophytes/Lichens | na | 20% | BL |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  T |  | **Species typical of at least part of EVC range**  Olearia argophylla | **Common Name**  Musk Daisy-bush |
| T |  | Pomaderris aspera | Hazel Pomaderris |
| MS |  | Coprosma quadrifida | Prickly Currant-bush |
| MS |  | Hedycarya angustifolia | Austral Mulberry |
| LH |  | Urtica incisa | Scrub Nettle |
| MH |  | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| MH |  | Sambucus gaudichaudiana | White Elderberry |
| MH |  | Hydrocotyle hirta | Hairy Pennywort |
| LTG |  | Carex appressa | Tall Sedge |
| LTG |  | Gahnia clarkei | Tall Saw-sedge |
| LNG |  | Tetrarrhena juncea | Forest Wire-grass |
| MNG |  | Uncinia tenella | Delicate Hook-sedge |
| GF |  | Blechnum wattsii | Hard Water-fern |
| GF |  | Grammitis billardierei | Common Finger-fern |
| GF |  | Polystichum proliferum | Mother Shield-fern |
| GF |  | Blechnum nudum | Fishbone Water-fern |
| TRF |  | Dicksonia antarctica | Soft Tree-fern |
| TRF |  | Todea barbara | Austral King-fern |
| TRF |  | Cyathea australis | Rough Tree-fern |
| TRF | R v | Cyathea cunninghamii | Slender Tree-fern |
| EP |  | Microsorum pustulatum ssp. pustulatum | Kangaroo Fern |
| EP |  | Rumohra adiantiformis | Leathery Shield-fern |
| EP |  | Fieldia australis | Fieldia |
| EP |  | Microsorum scandens | Fragrant Fern |
| SC |  | Clematis aristata | Mountain Clematis |
| SC |  | Pandorea pandorana | Wonga Vine |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 32: Warm Temperate Rainforest - Wilsons Promontory bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  50 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  There are no consistent weeds in this EVC.  Published by the Victorian Government Department of Sustainability and Environment May 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Wilsons Promontory bioregion

EVC 45: Shrubby Foothill Forest

#### Description:

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

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

#### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 40% | Eucalyptus obliqua  Eucalyptus baxteri | Messmate Stringybark  Brown Stringybark |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 3 | 25% | T |
| Medium Shrub | 7 | 35% | MS |
| Small Shrub | 2 | 10% | SS |
| Medium Herb | 2 | 1% | MH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 1 | 5% | MTG |
| Ground Fern | 2 | 5% | GF |
| Bryophytes/Lichens | na | 10% | BL |
| **Total understorey projective foliage cover** |  | **70%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Zieria arborescens | **Common Name**  Stinkwood |
| T | Elaeocarpus reticulatus | Blue Oliveberry |
| MS | Banksia marginata | Silver Banksia |
| MS | Acacia verticillata | Prickly Moses |
| MS | Acacia mucronata ssp. longifolia | Narrow-leaf Wattle |
| MS | Banksia spinulosa var. cunninghamii | Hairpin Banksia |
| SS | Hibbertia aspera s.l. | Rough Guinea-flower |
| SS | Bauera rubioides | Wiry Bauera |
| MH | Gonocarpus humilis | Shade Raspwort |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| LTG | Lepidosperma elatius | Tall Sword-sedge |
| LNG | Tetrarrhena juncea | Forest Wire-grass |
| MTG | Lepidosperma laterale | Variable Sword-sedge |
| GF | Pteridium esculentum | Austral Bracken |

**Recruitment:**

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

#### Organic Litter:

40 % cover

#### Logs:

20 m/0.1 ha.

#### Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 45: Shrubby Foothill Forest - Wilsons Promontory bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Wilsons Promontory 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 is most extensively developed on recent Quaternary deposits. Eucalypt-dominated low woodland to 10 m tall generally 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)**  50 cm | **#/ha**  15 / ha |

#### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 10% | Eucalyptus obliqua | Messmate Stringybark |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 6 | 40% | MS |
| Small Shrub | 5 | 10% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Medium Herb | 2 | 1% | MH |
| Large Tufted Graminoid | 2 | 15% | LTG |
| Medium to Small Tufted Graminoid | 2 | 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 |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Character Species**  Banksia serrata | **Common Name**  Saw Banksia |
| MS | Leptospermum continentale | Prickly Tea-tree |
| MS | Leptospermum myrsinoides | Heath Tea-tree |
| MS | Epacris impressa | Common Heath |
| SS | Platylobium obtusangulum | Common Flat-pea |
| SS | Isopogon ceratophyllus | Horny Cone-bush |
| SS | Leucopogon virgatus | Common Beard-heath |
| SS | Hibbertia acicularis | Prickly Guinea-flower |
| PS | Acrotriche serrulata | Honey-pots |
| MH | Gonocarpus humilis | Shade Raspwort |
| MH | Burchardia umbellata | Milkmaids |
| LTG | Xanthorrhoea australis | Austral Grass-tree |
| LTG | Xanthorrhoea minor ssp. lutea | Small Grass-tree |
| MTG | Lepidosperma concavum | Sandhill Sword-sedge |
| MNG | Hypolaena fastigiata | Tassel Rope-rush |
| GF | Pteridium esculentum | Austral Bracken |
| EP | Cassytha glabella | Slender Dodder-laurel |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 48: Heathy Woodland - Wilsons Promontory bioregion | |
|  | **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 20 years.  **Organic Litter:**  40 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  There are no consistent weeds in this EVC.  Published by the Victorian Government Department of Sustainability and Environment September 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Wilsons Promontory bioregion

EVC 53: Swamp Scrub

#### Description:

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

#### Canopy Cover:

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

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

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 53: Swamp Scrub – Wilsons Promontory bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low  LNG Holcus lanatus Yorkshire Fog high high  Published by the Victorian Government Department of Sustainability and Environment February 2005  © The State of Victoria Department of Sustainability and Environment 2005  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Wilsons Promontory bioregion

EVC 72: Granitic Hills Woodland

#### Description:

Mainly restricted to exposed north-east to north-west facing granite rocky outcrops and structurally consists of a low woodland to 10 m high with the dominant trees often being stunted.

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

#### Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus obliqua  Eucalyptus baxteri s.l.  r Eucalyptus willisii ssp. willisii | Messmate Stringybark  Brown Stringybark Promontory Peppermint |

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Allocasuarina verticillata | **Common Name**  Drooping Sheoak |
| MS | Epacris impressa | Common Heath |
| MS | Leptospermum continentale | Prickly Tea-tree |
| MS | Correa reflexa | Common Correa |
| MS | Banksia marginata | Silver Banksia |
| SS | Amperea xiphoclada var. xiphoclada | Broom Spurge |
| SS | Tetratheca pilosa | Hairy Pink-bells |
| SS | Isopogon ceratophyllus | Horny Cone-bush |
| SS | Xanthosia tridentata | Hill Xanthosia |
| PS | Acrotriche serrulata | Honey-pots |
| PS | Astroloma humifusum | Cranberry Heath |
| PS | Xanthosia pusilla spp. agg. | Heath Xanthosia |
| MH | Gonocarpus humilis | Shade Raspwort |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| LTG | Xanthorrhoea australis | Austral Grass-tree |
| LNG | Tetrarrhena juncea | Forest Wire-grass |
| MTG | Lepidosperma concavum | Sandhill Sword-sedge |
| MTG | Diplarrena moraea | White Iris |
| MTG | Patersonia glabrata | Leafy Purple-flag |
| GF | Pteridium esculentum | Austral Bracken |
| GF | Lindsaea linearis | Screw Fern |
| EP | Cassytha glabella | Slender Dodder-laurel |
| SC | Billardiera scandens | Common Apple-berry |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 72: Granitic Hills Woodland - Wilsons Promontory bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  20 % 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 September 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Wilsons Promontory bioregion

EVC 136: Sedge Wetland

#### Description:

Occupies seasonal wetlands and consists of 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 form:

|  |  |  |  |
| --- | --- | --- | --- |
| **Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 1 | 5% | MS |
| Large Herb | 1 | 5% | LH |
| Medium Herb | 4 | 10% | MH |
| Large Tufted Graminoid | 1 | 15% | LTG |
| Large Non-tufted Graminoid | 2 | 30% | LNG |
| Medium to Small Tufted Graminoid | 1 | 1% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 10% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| **Total understorey projective foliage cover** |  | **85%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Allocasuarina misera/paradoxa | **Common Name**  Slender/Green Sheoak |
| LH | Villarsia reniformis | Running Marsh-flower |
| MH | Utricularia australis | Yellow Bladderwort |
| MH | Goodenia humilis | Swamp Goodenia |
| MH | Centella cordifolia | Centella |
| LTG | Baumea articulata | Jointed Twig-sedge |
| LNG | Lepidosperma longitudinale | Pithy Sword-sedge |
| LNG | Baumea rubiginosa s.l. | Soft Twig-rush |
| MTG | Lepidosperma concavum | Sandhill Sword-sedge |
| MNG | Lepyrodia muelleri | Common Scale-rush |
| MNG | Isolepis fluitans | Floating Club-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 136: Sedge Wetland – Wilsons Promontory bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Wilsons Promontory bioregion

EVC 140: Mangrove Shrubland

#### Description:

Shrubland to 2 m tall. Confined to protected low energy coastal environments where there is sufficient shelter from strong wave action and currents to allow the accumulation of fine sediments, generally on mud flats within the tidal zone.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms:** |  | | |
| **Life form**  Medium Shrub | **#Spp**  1 | **%Cover**  40% | **LF code**  MS |
| Medium to Tiny Non-tufted Graminoid | 1 | 5% | MNG |
| **Total understorey projective foliage cover** |  | **25%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code** | **Species typical of at least part of EVC range** | **Common Name** |
| MS MNG | Avicennia marina ssp. australasica Zostera muelleri | White Mangrove Dwarf Grass-wrack |

#### Recruitment:

Continuous

#### Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 140: Mangrove Shrubland – Wilsons Promontory bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Wilsons Promontory bioregion

EVC 154: Bird Colony Shrubland

#### Description:

A shrubland dominated by Australian Hollyhock Malva australiana s.l. and confined to topographically protected granitic slopes on the islands to the south and west of Wilsons Promontory and the Seal Island group. The loamy sands are subject to intense seasonal trampling and tunnelling by large colonies of sea bird breeding colonies.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms:** |  | | |
| **Life form**  Medium Shrub | **#Spp**  6 | **%Cover**  20% | **LF code**  SS |
| Large Herb | 3 | 15% | MH |
| **Total understorey projective foliage cover** |  | **35%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Allocasuarina verticillata | **Common Name**  Drooping She-oak |
| MS | Rhagodia candolleana ssp. candolleana | Seaberry Saltbush |
| MS | Ozothamnus argophyllus | Spicy Everlasting |
| LH | Malva australiana s.l. | Australian Hollyhock |
| LH | Sambucus gaudichaudiana | White Elderberry |

#### Recruitment:

Continuous

#### Organic Litter:

10% cover

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Weediness:** |  | | | |
| **LF Code**  MH | **Typical Weed Species**  Polycarpon tetraphyllum | **Common Name**  Four-leaved Allseed | **Invasive**  high | **Impact**  low |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 154: Bird Colony Shrubland - Wilsons Promontory bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Wilsons Promontory bioregion

EVC 161: Coastal Headland Scrub

#### Description:

Scrub or low shrubland to 2 m tall 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.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Understorey Tree or Large Shrub | 2 | 25% | T |
| Medium Shrub | 7 | 50% | MS |
| Small Shrub | 2 | 5% | SS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 2 | 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 | 1% | MNG |
| Scrambler or Climber | 2 | 1% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| **Total understorey projective foliage cover** |  | **80%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Allocasuarina verticillata | **Common Name**  Drooping She-oak |
| T | Acacia retinodes | Wirilda |
| MS | Leptospermum laevigatum | Coast Tea-tree |
| MS | Kunzea ambigua | White Kunzea |
| MS | Acacia verticillata | Prickly Moses |
| MS | Exocarpos syrticola | Coast Balllart |
| LH | Pelargonium australe | Austral Stork’s-bill |
| SH | Carpobrotus rossii | Karkalla |
| LTG | Lomandra longifolia | Spiny-headed Mat-rush |
| MTG | Stylidium graminifolium | Grass Trigger-plant |
| MTG | Lepidosperma concavum | Sandhill Sword-sedge |
| MTG | Austrostipa stipoides | Prickly Spear-grass |
| MTG | Dianella revoluta s.l. | Black-anther Flax-lily |
| SC | Tetragonia implexicoma | Bower Spinach |

#### Recruitment:

Continuous

#### Organic Litter:

40% cover

#### Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 161: Coastal Headland Scrub – Wilsons Promontory bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Wilsons Promontory bioregion

EVC 163: Coastal Tussock Grassland

#### Description:

A tussock grassland that may contain emergent shrubs. Occurs on exposed coastal cliffs and bluffs. Soils are saline and the strong salt-laden winds preclude tree growth.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 3 | 20% | MS |
| Small Shrub | 1 | 5% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 5 | 10% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Large Tufted Graminoid | 3 | 10% | LTG |
| Medium to Small Tufted Graminoid | 4 | 25% | 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**  Leucopogon parviflorus | **Common Name**  Coast Beard-heath |
| MS | Correa alba | White Correa |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| MH | Samolus repens | Creeping Brookweed |
| MH | Asperula conferta | Common Woodruff |
| MH | Daucus glochidiatus | Austral Carrot |
| SH | Selliera radicans | Shiny Swamp-mat |
| LTG | Gahnia trifida | Coast Saw-sedge |
| LTG | Austrostipa stipoides | Prickly Spear-grass |
| LTG | Dichelachne crinita | Long-hair Plume-grass |
| MTG | Poa poiformis | Coast Tussock-grass |
| MTG | Schoenus apogon | Common Bog-sedge |
| MTG | Dianella revoluta s.l. | Black-anther Flax-lily |
| MTG | Lepidosperma gladiatum | Coast Sword-sedge |
| MNG | Baumea juncea | Bare Twig-sedge |

#### Recruitment:

Continuous

#### Organic Litter:

20 % cover

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Weediness: LF Code** | **Typical Weed Species** | **Common Name** | **Invasive** | **Impact** |
| LH MH  MH MH MH | Sonchus oleraceus Hypochoeris radicata  Anagallis arvensis Plantago coronopus  Leontodon taraxacoides ssp. taraxacoides | Common Sow-thistle Cat's Ear  Pimpernel  Buck's-horn Plantain Hairy Hawkbit | high high  high high high | low low  low low low |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 163: Coastal Tussock Grassland – Wilsons Promontory bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Wilsons Promontory bioregion

EVC 191: Riparian Scrub

#### Description:

A dense shrubland to 5 m tall growing on waterlogged substrates often with a peaty surface horizon. Emergent eucalypts may be occasionally present. The understorey is often species-poor and consists typically of sedges tolerant of seasonal waterlogging. Occurs along creeks and minor stream tributaries of the lowland plains.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 6 | 50% | MS |
| Small Shrub | 1 | 1% | SS |
| Medium Herb | 3 | 10% | MH |
| Large Tufted Graminoid | 3 | 30% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 2 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 5% | MNG |
| Ground Fern | 2 | 10% | GF |
| Scrambler or Climber | 1 | 10% | SC |
| Bryophytes/Lichens | na | 20% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Melaleuca squarrosa | **Common Name**  Scented Paperbark |
| MS | Leptospermum continentale | Prickly Tea-tree |
| MS | Goodenia ovata | Hop Goodenia |
| MS | Acacia verticillata | Prickly Moses |
| SS | Platylobium obtusangulum | Common Flat-pea |
| SS | Dillwynia glaberrima | Smooth Parrot-pea |
| PS | Xanthosia pusilla spp. agg. | Heath Xanthosia |
| LH | Stackhousia viminea | Slender Stackhousia |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Lobelia anceps | Angled Lobelia |
| MH | Laxmannia orientalis | Dwarf Wire-lily |
| MH | Gratiola peruviana | Austral Brooklime |
| LTG | Gahnia clarkei | Tall Saw-sedge |
| LTG | Baloskion tetraphyllum ssp. tetraphyllum | Tassel Cord-rush |
| LTG | Gahnia sieberiana | Red-fruit Saw-sedge |
| LNG | Tetrarrhena juncea | Forest Wire-grass |
| LNG | Phragmites australis | Common Reed |
| MTG | Patersonia fragilis | Short Purple-flag |
| MTG | Lepidosperma laterale | Variable Sword-sedge |
| MNG | Hypolaena fastigiata | Tassel Rope-rush |
| MNG | Triglochin striatum | Streaked Arrowgrass |
| MNG | Schoenus brevifolius | Zig-zag Bog-sedge |
| MNG | Eleocharis gracilis | Slender Spike-sedge |
| GF | Pteridium esculentum | Austral Bracken |
| GF | Schizaea fistulosa | Narrow Comb-fern |
| GF | Lindsaea linearis | Screw Fern |
| TRF | Todea barbara | Austral King-fern |
| TRF | Cyathea australis | Rough Tree-fern |
| SC | Gleichenia microphylla | Scrambling Coral-fern |
| SC | Cassytha glabella | Slender Dodder-laurel |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 191: Riparian Scrub - Wilsons Promontory bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Logs:**  5 m/0.1 ha (note: large log class does not apply).  **Weediness:**  There are no consistent weeds in this EVC.  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**

Wilsons Promontory bioregion

EVC 192: Montane Rocky Shrubland

#### Description:

Treeless or sparsely treed shrubland of the windswept rocky summits of the highest granitic peaks of Wilsons Promontory. When present, trees are often stunted and low-growing and may form part of the dominant shrub layer.

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 6 | 30% | MS |
| Medium Herb | 1 | 1% | MH |
| Large Tufted Graminoid | 2 | 15% | LTG |
| Medium to Small Tufted Graminoid | 2 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Ground Fern | 3 | 10% | GF |
| Tree Fern | 1 | 5% | TRF |
| Epiphyte | 2 | 5% | EP |
| Bryophytes/Lichens | na | 20% | BL |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  MS |  | **Species typical of at least part of EVC range**  Tasmannia lanceolata | **Common Name**  Mountain Pepper |
| MS |  | Monotoca elliptica s.l. | Tree Broom-heath |
| MS |  | Epacris impressa | Common Heath |
| MS | k | Olearia stellulata | Starry Daisy-bush |
| MH | v | Huperzia varia | Long Clubmoss |
| LTG | v | Gahnia grandis | Brickmakers' Sedge |
| LTG |  | Lepidosperma elatius | Tall Sword-sedge |
| MTG |  | Dianella tasmanica | Tasman Flax-lily |
| MTG |  | Libertia pulchella | Pretty Grass-flag |
| MNG |  | Uncinia tenella | Delicate Hook-sedge |
| GF |  | Blechnum wattsii | Hard Water-fern |
| GF |  | Polystichum proliferum | Mother Shield-fern |
| GF |  | Grammitis billardierei | Common Finger-fern |
| GF |  | Asplenium bulbiferum ssp. gracillimum | Mother Spleenwort |
| TRF |  | Dicksonia antarctica | Soft Tree-fern |
| EP |  | Microsorum pustulatum ssp. pustulatum | Kangaroo Fern |
| EP |  | Hymenophyllum australe | Austral Filmy Fern |

#### Recruitment:

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

#### Organic Litter:

40 % cover

#### Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 192: Montane Rocky Shrubland - Wilsons Promontory bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Wilsons Promontory bioregion

EVC 310: Wet Rocky Outcrop Scrub

#### Description:

A treeless scrub with occasional emergent eucalypts that occurs below Montane Rocky Shrubland on rocky crests and associated slopes developed on Devonian granite.

#### Lifeforms:

|  |  |  |  |
| --- | --- | --- | --- |
| **Life form** | **#Spp** | **%Cover** | **LF code** |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 6 | 30% | MS |
| Small Shrub | 2 | 10% | SS |
| Medium Herb | 4 | 10% | MH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Medium to Small Tufted Graminoid | 1 | 1% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 5% | MNG |
| Ground Fern | 3 | 10% | GF |
| Epiphyte | 2 | 5% | EP |
| Bryophytes/Lichens | na | 20% | BL |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  T | r | **Species typical of at least part of EVC range**  Banksia saxicola | **Common Name**  Rock Banksia |
| MS | k | Olearia stellulata | Starry Daisy-bush |
| MS |  | Leptospermum continentale | Prickly Tea-tree |
| MS |  | Epacris impressa | Common Heath |
| MS | r | Monotoca glauca | Currant-wood |
| SS | r | Hibbertia hirticalyx | Bass Guinea-flower |
| MH |  | Acaena novae-zelandiae | Bidgee-widgee |
| MH |  | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| MH | v | Huperzia varia | Long Clubmoss |
| MH |  | Gonocarpus humilis | Shade Raspwort |
| SH |  | Hydrocotyle hirta | Hairy Pennywort |
| LTG |  | Lepidosperma elatius | Tall Sword-sedge |
| MTG |  | Dianella tasmanica | Tasman Flax-lily |
| MTG |  | Lepidosperma laterale | Variable Sword-sedge |
| MTG |  | Carex breviculmis | Common Grass-sedge |
| MTG |  | Lachnagrostis aemula s.l. | Leafy Blown-grass |
| LNG |  | Tetrarrhena juncea | Forest Wire-grass |
| MNG |  | Deyeuxia rodwayi | Tasman Bent-grass |
| GF |  | Polystichum proliferum | Mother Shield-fern |
| GF |  | Grammitis billardierei | Common Finger-fern |
| GF |  | Asplenium flabellifolium | Necklace Fern |
| EP |  | Microsorum pustulatum ssp. pustulatum | Kangaroo Fern |

**Recruitment:**

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

#### Organic Litter:

40 % cover

#### Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 310: Wet Rocky Outcrop Scrub - Wilsons Promontory bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Wilsons Promontory bioregion

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

#### Description:

Near-coastal, deep calcareous (alkaline) sand dunes and swales, and commonly on the landward side of primary dunes. 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 10 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** |
| 30% | Allocasuarina verticillata  Leptospermum laevigatum Bursaria spinosa ssp. macrophylla | Drooping Sheoak  Coast Tea-tree Sweet Bursaria |

|  |  |  |  |
| --- | --- | --- | --- |
| **Life forms: Life form** Immature Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Medium Shrub | 4 | 30% | MS |
| Small Shrub | 2 | 5% | SS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 5 | 10% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 4 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Scrambler or Climber | 2 | 1% | SC |
| Bryophytes/Lichens | na | 20% | BL |
| **Total understorey projective foliage cover** |  | **80%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Acacia longifolia ssp. sophorae | **Common Name**  Coast Wattle |
| MS | Leucopogon parviflorus | Coast Beard-heath |
| MS | Acacia retinodes var. uncifolia | Coast Wirilda |
| MS | Pomaderris oraria ssp. oraria | Bassian Pomaderris |
| SS | Hibbertia sericea s.l. | Silky Guinea-flower |
| SS | Pimelea serpyllifolia ssp. serpyllifolia | Thyme-leaf Rice-flower |
| SS | Adriana quardipartita (pubescent form) | Coast Bitter-bush |
| LH | Pelargonium australe | Austral Stork’s-bill |
| MH | Lagenophora stipitata | Common Bottle-daisy |
| MH | Geranium potentilloides | Cinquefoil Cranesbill |
| MH | Acaena novae-zelandiae | Bidgee-widgee |
| MH | Parietaria debilis s.l. | Shade Pellitory |
| SH | Dichondra repens | Kidney-weed |
| SH | Oxalis exilis | Shady Wood-sorrel |
| SH | Crassula sieberiana | Sieber Crassula |
| LTG | Lomandra longifolia | Spiny-headed Mat-rush |
| MTG | Dianella revoluta s.l. | Black-anther Flax-lily |
| MTG | Carex breviculmis | Common Grass-sedge |
| MTG | Lachnagrostis billardierei s.l. | Coast Blown-grass |
| MTG | Austrodanthonia setacea | Bristly Wallaby-grass |
| MNG | Ficinia nodosa | Knobby Club-sedge |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| SC | Clematis microphylla | Small-leaved Clematis |
| SC | Comesperma volubile | Love Creeper |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 858: Coastal Alkaline Scrub (syn. Calcarenite Dune Woodland) – Wilsons Promontory bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Logs:**  5 m/0.1 ha. (note: large log class does not apply)  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Centaurium erythraea Common Centaury high low  MH Anagallis arvensis Pimpernel high low  MH Hypochoeris spp. Cat's Ear high low  MTG Ehrharta erecta Panic Veldt-grass high high  MTG Catapodium rigidum Fern Grass high low  MNG Aira caryophyllea Silvery Hair-grass high low SC Myrsiphyllum asparagoides Smilax Asparagus 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**

Wilsons Promontory bioregion

EVC 875: Blocked Coastal Stream Swamp

#### Description:

Margins of coastal streams that are consistently flooded for long periods where the entrances become plugged by sand during low flow periods. The blockage is breached during floods, briefly exposing the wetlands before the mouth silts up and the dammed river overflows, flooding the habitat of this EVC. Soils are peats derived from Quaternary swamp and lagoonal deposits. Elevation is near sea level and average annual rainfall is 900 mm.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** Large Herb | **#Spp**  2 | **%Cover**  10% | **LF code**  LH |
| Medium Herb | 1 | 5% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Non-tufted Graminoid | 2 | 55% | LNG |
| Medium to Small Tufted Graminoid | 3 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| **Total understorey projective foliage cover** |  | **80%** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  LH |  | **Speices typical of at least part of EVC range**  Euphrasia collina | **Common Name**  Purple Eyebright |
| LH |  | Epilobium billardierianum | Variable Willow-herb |
| MH |  | Utricularia dichotoma s.l. | Fairies' Aprons |
| MH |  | Drosera binata | Forked Sundew |
| MH |  | Cardamine gunnii s.l. | Common Bitter-cress |
| SH |  | Hydrocotyle sibthorpioides | Shining Pennywort |
| LNG | r | Cladium procerum | Leafy Twig-sedge |
| LNG |  | Typha domingensis | Narrow-leaf Cumbungi |
| MTG |  | Lepidosperma filiforme | Common Rapier-sedge |
| MTG | r | Lachnagrostis rudis | Ruddy Blown-grass |
| MTG |  | Isolepis platycarpa | Broad-fruit Club-sedge |
| MTG |  | Juncus caespiticius | Grassy Rush |
| MNG |  | Triglochin striatum | Streaked Arrowgrass |
| MNG |  | Schoenus nitens | Shiny Bog-sedge |
| MNG |  | Baumea juncea | Bare Twig-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 875: Blocked Coastal Stream Swamp - Wilsons Promontory bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Wilsons Promontory 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** |
| Medium Shrub | 2 | 5% | MS |
| Small Shrub | 4 | 30% | SS |
| Medium Herb | 2 | 5% | MH |
| Small or Prostrate Herb | 4 | 5% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Medium to Small Tufted Graminoid | 4 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| Scrambler or Climber | 1 | 5% | SC |
| Soil Crust | na | 20% | S/C |
| **Total understorey projective foliage cover** |  | **70%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Olearia axillaris | **Common Name**  Coast Daisy-Bush |
| MS | Alyxia buxifolia | Sea Box |
| SS | Leucophyta brownii | Cushion Bush |
| SS | Ozothamnus turbinatus | Coast Everlasting |
| SS | Rhagodia candolleana ssp. candolleana | Seaberry Saltbush |
| SS | Correa alba | White Correa |
| MH | Sarcocornia quinqueflora | Beaded Glasswort |
| MH | Samolus repens | Creeping Brookweed |
| MH | Senecio piannatifolius | Toothed Groundsel |
| MH | Actites megalocarpa | Coast Sow-thistle |
| SH | Dichondra repens | Kidney-weed |
| SH | Disphyma crassifolium ssp. clavellatum | Rounded Noon-flower |
| SH | Carpobrotus rossii | Karkalla |
| SH | Calandrinia calyptrata | Pink Purslane |
| LTG | Austrostipa stipoides | Prickly Spear-grass |
| LTG | Dichelachne crinita | Long-hair Plume-grass |
| MNG | Ficinia nodosa | Knobby Club-sedge |
| MTG | Lachnagrostis billardierei s.l. | Coast Blown-grass |
| MTG | Poa poiformis | Coast Tussock-grass |
| MTG | Lepidosperma gladiatum | Coast Sword-sedge |
| MTG | Dianella brevicaulis | Small-flower Flax-lily |
| SC | Tetragonia implexicoma | Bower Spinach |

#### Recruitment:

Continuous

#### Organic Litter:

10 % cover

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 876: Spray-zone Coastal Shrubland – Wilsons Promontory bioregion | |
|  | **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Sonchus oleraceus Common Sow-thistle high low LNG Pennisetum clandestinum Kikuyu high high  MH Hypochoeris radicata Cat's Ear high low  MH Oxalis pes-caprae Soursob high high  MS Chrysanthemoides monilifera Boneseed high high MS Polygala myrtifolia var. myrtifolia Myrtle-leaf Milkwort high high  MS Coprosma repens Mirror Bush high high  MS Lycium ferocissimum African Box-thorn high high MTG Ehrharta erecta var. erecta Panic Veldt-grass high high  SC Delairea odorata Cape Ivy 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**

Wilsons Promontory bioregion

EVC 914: Estuarine Flats Grassland

#### Description:

Closed to open grassland to 1.5 m tall with occasional shrubs occurring on estuarine flats often associated with current or old beach berms or sand sheets that are occasionally inundated by high tides. Occupies areas on marginally higher ground inland from Coastal Saltmarsh.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 2 | 5% | MS |
| Small Shrub | 1 | 5% | SS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 3 | 15% | MH |
| Small Herb | 4 | 15% | SH |
| Large Tufted Graminoid | 2 | 15% | LTG |
| Medium to Small Tufted Graminoid | 2 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 15% | MNG |
| **Total understorey projective foliage cover** |  | **85%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Atriplex cinerea | **Common Name**  Coast Saltbush |
| MS | Rhagodia candolleana ssp. candolleana | Seaberry Saltbush |
| SS | Frankenia pauciflora var. gunnii | Southern Sea-heath |
| LH | Senecio pinnatifolius | Variable Groundsel |
| MH | Sarcocornia quinqueflora ssp. quinqueflora | Beaded Glasswort |
| MH | Suaeda australis | Austral Seablite |
| MH | Samolus repens | Creeping Brookweed |
| SH | Disphyma crassifolium ssp. clavellatum | Rounded Noon-flower |
| SH | Selliera radicans | Shiny Swamp-mat |
| SH | Hemichroa pentandra | Trailing Hemichroa |
| LTG | Austrostipa stipoides | Prickly Spear-grass |
| LTG | Gahnia filum | Chaffy Saw-sedge |
| MTG | Poa poiformis | Coast Tussock-grass |
| MTG | Lachnagrostis billardierei ssp. billardierei | Coast Blown-grass |
| MNG | Spinifex sericeus | Hairy Spinifex |
| MNG | Distichlis distichophylla | Australian Salt-grass |
| MNG | Ficinia nodosa | Knobby Club-sedge |

#### Recruitment:

Continuous

#### Organic Litter:

10% Cover

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Weediness: LF Code** | **Typical Weed Species** | **Common Name** | **Invasive** | **Impact** |
| MS  LH LH MH MH MH MNG MNG | Chrysanthemoides monilifera ssp. monilifera  Sonchus oleraceus Conyza albida  Polycarpon tetraphyllum Hypochoeris radicata Anagallis arvensis  Vulpia myuros Lagurus ovatus | Boneseed  Common Sow-thistle Tall Fleabane  Four-leaved Allseed Cat's Ear  Pimpernel  Rat's-tail Fescue Hare's-tail Grass | high  high high high high high high high | high  low low low low low low low |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 914: Estuarine Flats Grassland – Wilsons Promontory bioregion | |
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