

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

Dundas Tablelands 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** |
| 20% | Eucalyptus ovata  Eucalyptus viminalis ssp. cygnetensis Eucalyptus baxteri s.s. | Swamp Gum  Rough-barked Manna-gum Brown Stringybark |

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| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 4 | 15% | MS |
| Small Shrub | 4 | 10% | SS |
| Prostrate Shrub | 3 | 5% | PS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 10 | 15% | MH |
| Small or Prostrate Herb | 1 | 5% | SH |
| Large Tufted Graminoid | 3 | 5% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 12 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 5% | MNG |
| Ground Fern | 1 | 10% | GF |
| Bryophytes/Lichens | na | 10% | BL |

Ecological Vegetation Class bioregion benchmark

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| EVC 3: Damp Sands Herb-rich Woodland - Dundas Tablelands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia mearnsii Black Wattle  MS Banksia marginata Silver Banksia  MS Acacia verticillata Prickly Moses  MS Leptospermum myrsinoides Heath Tea-tree  MS Leptospermum continentale Prickly Tea-tree  SS Isopogon ceratophyllus Horny Cone-bush  SS Hibbertia sericea s.l. Silky Guinea-flower  SS Astroloma conostephioides Flame Heath  SS Hibbertia fasciculata var. prostrata Bundled Guinea-flower  PS Astroloma humifusum Cranberry Heath  PS Acrotriche serrulata Honey-pots  PS Styphelia adscendens Golden Heath  LH Wahlenbergia gracilis s.s. Sprawling Bluebell  LH Senecio hispidulus Rough Fireweed  LH Senecio tenuiflorus Slender Fireweed  MH Goodenia geniculata Bent Goodenia  MH Lagenophora stipitata Common Bottle-daisy  MH Gonocarpus tetragynus Common Raspwort  SH Dichondra repens Kidney-weed  SH Oxalis exilis Shady Wood-sorrel  LTG Xanthorrhoea minor ssp. lutea Small Grass-tree  LTG Austrostipa mollis Supple Spear-grass  LNG Gahnia radula Thatch Saw-sedge  MTG Dianella revoluta s.s. Black-anther Flax-lily  MTG Poa sieberiana var. sieberiana Grey Tussock-grass  MTG Austrodanthonia geniculata Kneed Wallaby-grass  MTG Lomandra juncea Desert Mat-rush  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Poa tenera Slender Tussock-grass  TTG Centrolepis strigosa ssp. strigosa Hairy Centrolepis  TTG Centrolepis aristata Pointed Centrolepis  GF Pteridium esculentum Austral Bracken  SC Thysanotus patersonii Twining Fringe-lily  SC Comesperma volubile Love Creeper  **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  T Pinus radiata Radiata Pine low high MH Hypochoeris radicata Cat's Ear high low MH Hypochoeris glabra Smooth Cat's-ear high low  MH Cicendia filiformis Slender Cicendia high low  MH Anagallis arvensis Pimpernel high low  MTG Briza minor Lesser Quaking-grass high low  MTG Briza maxima Large Quaking-grass high low  MNG Aira elegantissima Delicate Hair-grass high low  MNG Aira caryophyllea Silvery Hair-grass high low  MNG Bromus rubens Red Brome high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Dundas Tablelands bioregion

EVC 6: Sand Heathland

Description:

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

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

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

Recruitment:

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

Organic Litter:

20% cover

Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

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

Dundas Tablelands 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 a range of sedges, grasses and shrubs.

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| **Life forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 7 | 40% | MS |
| Small Shrub | 4 | 5% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 1 | 5% | MH |
| Small Herb | 2 | 1% | SH |
| Large Tufted Graminoid | 2 | 20% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 4 | 15% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 10% | MNG |
| Ground Fern | 1 | 1% | GF |
| Scrambler or Climber | 1 | 5% | SC |
| Bryophytes/Lichens | na | 20% | BL |

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

Ecological Vegetation Class bioregion benchmark

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| EVC 8: Wet Heathland - Dundas Tablelands bioregion | |
|  | **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 30 years.  **Organic Litter:**  20% cover  **Weediness:**  There are no consistent weeds in this EVC.  Published by the Victorian Government Department of Sustainability and Environment 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**

Dundas Tablelands bioregion

EVC 13: Brackish Sedgeland

Description:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Large Herb | 1 | 5% | LH |
| Medium Herb | 5 | 10% | MH |
| Small or Prostrate Herb\* | 5 | 5% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 4 | 10% | MTG |
| Tiny Tufted Graminoid\* | 3 | 5% | TTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 50% | MNG |
| **Total understorey projective foliage cover** |  | **90%** |  |

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

Recruitment:

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

Organic Litter:

10% cover

Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

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

Dundas Tablelands bioregion

EVC 16: Lowland Forest

Description:

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

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus baxteri s.l.  Eucalyptus obliqua Eucalyptus aromaphloia | Brown Stringybark  Messmate Stringybark Scentbark |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 11 | 25% | MS |
| Small Shrub | 9 | 15% | SS |
| Prostrate Shrub | 3 | 5% | PS |
| Medium Herb | 12 | 20% | MH |
| Large Tufted Graminoid | 4 | 10% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 9 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 5% | MNG |
| Ground Fern | 1 | 5% | GF |
| Bryophytes/Lichens | na | 10% | BL |

Ecological Vegetation Class bioregion benchmark

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| --- | --- |
| EVC 16: Lowland Forest - Dundas Tablelands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia melanoxylon Blackwood  MS Acacia verniciflua Varnish Wattle  MS Correa reflexa Common Correa  MS Epacris impressa Common Heath  MS Hakea rostrata Beaked Hakea  SS Hibbertia stricta s.l. Upright Guinea-flower  SS Platylobium obtusangulum Common Flat-pea  SS Isopogon ceratophyllus Horny Cone-bush  SS Sphaerolobium vimineum s.l. Leafless Globe-pea  PS Boronia nana Dwarf Boronia  PS r Boronia nana var. pubescens Dwarf Boronia  PS Acrotriche serrulata Honey-pots  MH Helichrysum scorpioides Button Everlasting  MH Goodenia geniculata Bent Goodenia  MH Viola hederacea sensu Entwisle (1996) Ivy-leaf Violet  MH Gonocarpus tetragynus Common Raspwort  SH Drosera whittakeri ssp. aberrans Scented Sundew  LTG Xanthorrhoea australis Austral Grass-tree  LTG Xanthorrhoea minor ssp. lutea Small Grass-tree  LTG Lomandra longifolia Spiny-headed Mat-rush  LNG Gahnia radula Thatch Saw-sedge  MTG Lomandra micrantha s.l. Small-flower Mat-rush  MTG Poa sieberiana Grey Tussock-grass  MTG Lepidosperma semiteres Wire Rapier-sedge  MTG Lomandra micrantha ssp. tuberculata Small-flower Mat-rush  MNG Microlaena stipoides var. stipoides Weeping Grass  GF Pteridium esculentum Austral Bracken  EP Cassytha pubescens s.s. Downy Dodder-laurel  SC Comesperma volubile Love Creeper  **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  There are no consistent weeds in this EVC.  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Dundas Tablelands bioregion

EVC 19: Riparian Shrubland

Description:

Diverse, medium to tall shrubland to 5 m tall occurring on rocky substrates of major streams and banks and channels of rocky creeks and along perennial streams in gorge tracts. Able to withstand frequent flooding or regenerate rapidly after such disturbance and often forming dense thickets along the stream's edge during long periods without flooding. Trees may be irregularly scattered throughout but tend to be restricted to the banks of the rivers and creeks. Sedges and rushes common to riparian environments dominate the understorey as well as an array of herbs and grasses including many ephemeral native species which survive on the bare sands or in rock crevices.

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Leptospermum lanigerum | **Common Name**  Woolly Tea-tree |
| MS | Hymenanthera dentata s.l. | Tree Violet |
| MS | Bursaria spinosa | Sweet Bursaria |
| LH | Persicaria decipiens | Slender Knotweed |
| MH | Hydrocotyle hirta | Hairy Pennywort |
| MH | Poranthera microphylla | Small Poranthera |
| MH | Oxalis perennans | Grassland Wood-sorrel |
| SH | Dichondra repens | Kidney-weed |
| LTG | Carex appressa | Tall Sedge |
| LTG | Poa labillardierei | Common Tussock-grass |
| LTG | Lomandra longifolia | Spiny-headed Mat-rush |
| MTG | Lepidosperma laterale | Variable Sword-sedge |
| MTG | Dianella revoluta s.l. | B;ack-anther Flax-lily |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| GF | Blechnum nudum | Fishbone Water-fern |
| SC | Clematis microphylla | Small-leaved Clematis |

Recruitment:

Episodic/flood – desirable period between flood events is 5 years.

Organic Litter:

20% cover

Logs:

10 m/0.1 ha (note: large log class does not apply).

Ecological Vegetation Class bioregion benchmark

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| --- | --- |
| EVC 19: Riparian Shrubland - Dundas Tablelands bioregion | |
|  | **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Rosa rubiginosa Sweet Briar low high MS Rubus fruticosus spp. agg. Blackberry high high  LH Conium maculatum Hemlock high high  LH Conyza bonariensis Flaxleaf Fleabane high low  LH Carduus tenuiflorus Winged Thistle high high  LH Sonchus asper s.l. Rough Sow-thistle high low  LH Plantago lanceolata Ribwort high low  LH Rumex crispus Curled Dock high low  MH Hypochoeris radicata Cat's Ear high low  MH Prunella vulgaris Self-heal high low MH Trifolium arvense var. arvense Hare's-foot Clover high low  MH Anagallis arvensis Pimpernel high low  MH Euphorbia peplus Petty Spurge high low  MH Silene gallica French Catchfly high low  MH Petrorhagia nanteuilii Childling Pink high low MH Gamochaeta purpurea s.l. Purple Cudweed high low  MH Centaurium erythraea Common Centaury high low  SH Modiola caroliniana Red-flower Mallow high low  LNG Holcus lanatus Yorkshire Fog high high  MTG Cyperus eragrostis Drain Flat-sedge high high  MTG Bromus catharticus Prairie Grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low MTG Bromus hordeaceus ssp. hordeaceus Soft Brome high low  MTG Bromus diandrus Great Brome high low  MNG Aira caryophyllea Silvery Hair-grass high low  SC Vinca major Blue Periwinkle high high  Published by the Victorian Government Department of Sustainability and Environment May 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Dundas Tablelands bioregion

EVC 20: Heathy Dry Forest

Description:

Grows on shallow, rocky skeletal soils on a variety of geologies and on a range of landforms from gently undulating hills to exposed aspects on ridge tops and steep slopes at a range of elevations. The overstorey is a low, open eucalypt forest, poor in form to 20 m tall with an open crown cover. The understorey is dominated by a low, sparse to dense layer of ericoid-leaved shrubs including heaths and peas. Graminoids and grasses are frequently present in the ground layer, but do not provide much cover.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus baxteri s.l.  Eucalyptus obliqua | Brown Stringybark  Messmate Stringybark |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 13 | 30% | MS |
| Small Shrub | 13 | 20% | SS |
| Prostrate Shrub | 4 | 5% | PS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 5 | 5% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 7 | 15% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 5% | MNG |
| Ground Fern | 1 | 5% | GF |
| Scrambler or Climber | 2 | 1% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 20: Heathy Dry Forest - Dundas Tablelands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia retinodes Wirilda  MS Banksia marginata Silver Banksia  MS Callitris rhomboidea Oyster Bay Pine  MS Correa reflexa Common Correa  MS Acacia oxycedrus Spike Wattle  SS Brachyloma ciliatum Fringed Brachyloma  SS Calectasia intermedia Blue Tinsel-lily  SS Daviesia brevifolia Leafless Bitter-pea  SS Dillwynia sericea s.l. Showy Parrot-pea  PS Styphelia adscendens Golden Heath  PS Bossiaea prostrata Creeping Bossiaea  PS Astroloma pinifolium Pine Heath  PS Acrotriche serrulata Honey-pots  LH Senecio tenuiflorus Slender Fireweed  MH Gonocarpus humilis Shade Raspwort  MH Viola hederacea sensu Entwisle (1996) Ivy-leaf Violet  MH Helichrysum scorpioides Button Everlasting  SH Opercularia varia Variable Stinkweed  SH Viola cleistogamoides Hidden Violet  SH Drosera whittakeri ssp. aberrans Scented Sundew  LTG Lomandra longifolia Spiny-headed Mat-rush  MTG Dianella revoluta s.l. Black-anther Flax-lily  MTG Poa sieberiana Grey Tussock-grass  MNG Hypolaena fastigiata Tassel Rope-rush  GF Pteridium esculentum Austral Bracken  SC Cassytha pubescens s.s. Downy Dodder-laurel  SC Grevillea aquifolium Variable Prickly Grevillea  **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 20 years.  **Organic Litter:**  20 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  There are no consistent weeds in this EVC.  Published by the Victorian Government Department of Sustainability and Environment 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**

Dundas Tablelands bioregion

EVC 28: Rocky Outcrop Shrubland

Description:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Life forms: Life form** Medium Shrub | **#Spp**  11 | **%Cover**  45% | **LF code**  MS |
| Small Shrub | 4 | 10% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 2 | 1% | LH |
| Medium Herb | 3 | 5% | MH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Medium to Small Tufted Graminoid | 5 | 10% | MTG |
| Bryophytes/Lichens | na | 20% | BL |
| Soil Crust | na | 10% | S/C |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Monotoca scoparia | **Common Name**  Prickly Broom-heath |
| MS | Correa reflexa | Common Correa |
| MS | Cassinia longifolia | Shiny Cassinia |
| MS | Leptospermum myrsinoides | Heath Tea-tree |
| SS | Hibbertia obtusifolia | Grey Guinea-flower |
| SS | Hibbertia riparia | Erect Guinea-flower |
| LH | Wahlenbergia gracilis s.l. | Sprawling Bluebell |
| LH | Senecio tenuiflorus | Slender Fireweed |
| MH | Gonocarpus tetragynus | Common Raspwort |
| LTG | Xanthorrhoea australis | Austral Grass-tree |
| MTG | Dianella revoluta s.l. | Black-anther Flax-lily |
| MTG | Lepidosperma laterale | Variable Sword-sedge |
| MTG | Lomandra filiformis | Wattle Mat-rush |

Recruitment:

Continuous

Organic Litter:

40 % cover

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Weediness:** |  | | | |
| **LF Code**  MH | **Typical Weed Species**  Hypochoeris radicata | **Common Name**  Cat's Ear | **Invasive**  high | **Impact**  low |

Ecological Vegetation Class bioregion benchmark

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

Dundas Tablelands bioregion

EVC 48: Heathy Woodland

Description:

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

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

Tree Canopy Cover:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 10 | 35% | MS |
| Small Shrub | 10 | 25% | SS |
| Prostrate Shrub | 4 | 10% | PS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 5 | 10% | MH |
| Small or Prostrate Herb | 5 | 5% | SH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Medium to Small Tufted Graminoid | 10 | 15% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 5% | MNG |
| Scrambler or Climber | 1 | 1% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 48: Heathy Woodland - Dundas Tablelands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia mearnsii Black Wattle  MS Brachyloma daphnoides Daphne Heath  MS Leptospermum myrsinoides Heath Tea-tree  MS Correa reflexa Common Correa  MS Banksia marginata Silver Banksia  SS Platylobium obtusangulum Common Flat-pea  SS Astroloma conostephioides Flame Heath  SS Leucopogon virgatus Common Beard-heath  SS Isopogon ceratophyllus Horny Cone-bush  PS Astroloma humifusum Cranberry Heath  PS Gompholobium ecostatum Dwarf Wedge-pea  PS Acrotriche serrulata Honey-pots  PS Styphelia adscendens Golden Heath  LH Wahlenbergia stricta Tall Bluebell  MH Gonocarpus tetragynus Common Raspwort  MH Brunonia australis Blue Pincushion  MH Hydrocotyle callicarpa Small Pennywort  SH Drosera glanduligera Scarlet Sundew  SH Viola cleistogamoides Hidden Violet  SH Hydrocotyle laxiflora Stinking Pennywort  LTG r Xanthorrhoea caespitosa Tufted Grass-tree  LTG Austrostipa pubinodis Tall Spear-grass  MTG Schoenus apogon Common Bog-sedge  MTG Lomandra sororia Small Mat-rush  MTG Poa sieberiana var. hirtella Grey Tussock-grass  MTG Lepidosperma carphoides Black Rapier-sedge  MNG Lepidobolus drapetocoleus Scale Shedder  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Hypolaena fastigiata Tassel Rope-rush  TTG Centrolepis aristata Pointed Centrolepis  TTG Centrolepis strigosa ssp. strigosa Hairy Centrolepis  EP Amyema spp. Mistletoe  SC Grevillea aquifolium Variable Prickly Grevillea  SC Cassytha pubescens s.s. Downy Dodder-laurel  **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 20 years.  **Organic Litter:**  40 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris glabra Smooth Cat's-ear high low  MTG Briza minor Lesser Quaking-grass high low  MNG Aira elegantissima Delicate Hair-grass high low  MNG Aira cupaniana Quicksilver Grass high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Dundas Tablelands bioregion

EVC 53: Swamp Scrub

Description:

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

Canopy Cover:

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

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

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

Ecological Vegetation Class bioregion benchmark

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

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

Dundas Tablelands bioregion

EVC 55: Plains Grassy Woodland

Description:

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

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

Tree Canopy Cover:

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

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 55: Plains Grassy Woodland - Dundas Tablelands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  SS Pimelea humilis Common Rice-flower  SS Pimelea curviflora s.l. Curved Rice-flower  PS Astroloma humifusum Cranberry Heath  PS Bossiaea prostrata Creeping Bossiaea  MH Hypericum gramineum Small St John’s Wort  MH Drosera peltata ssp. peltata Pale Sundew  MH Acaena echinata Sheep's Burr  MH Leptorhynchos squamatus Scaly Buttons  SH Drosera whittakeri ssp. aberrans Scented Sundew  SH Hydrocotyle laxiflora Stinking Pennywort  SH Solenogyne dominii Smooth Solenogyne  LTG Austrostipa pubinodis Tall Spear-grass  MTG Schoenus apogon Common Bog-sedge  MTG Themeda triandra Kangaroo Grass  MTG Tricoryne elatior Yellow Rush-lily  MTG Caesia calliantha Blue Grass-lily  MNG Microtis unifolia Common Onion-orchid  MNG Microlaena stipoides var. stipoides Weeping Grass  TTG Centrolepis aristata Pointed Centrolepis  SC Thysanotus patersonii Twining Fringe-lily  SC Convolvulus erubescens spp. agg. Pink Bindweed  **Recruitment:**  Continuous  **Organic Litter:**  10 % cover  **Logs:**  10 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low MH Trifolium campestre var. campestre Hop Clover high low MH Trifolium subterraneum Subterranean Clover high low  MH Centaurium erythraea Common Centaury high low  MH Anagallis arvensis Pimpernel high low  MH Hypochoeris glabra Smooth Cat's-ear high low  MH Trifolium dubium Suckling Clover high low  LNG Holcus lanatus Yorkshire Fog high high  MTG Briza minor Lesser Quaking-grass high low  MTG Romulea rosea Onion Grass high low  MTG Briza maxima Large Quaking-grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low  MTG Anthoxanthum odoratum Sweet Vernal-grass high high  MNG Juncus capitatus Capitate Rush high low  MNG Aira elegantissima Delicate Hair-grass high low  MNG Cynosurus echinatus Rough Dog's-tail high low  MNG Aira spp. Hair Grass high low  TTG Cyperus tenellus Tiny Flat-sedge high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Dundas Tablelands bioregion

EVC 56: Floodplain Riparian Woodland

Description:

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

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

Tree Canopy Cover:

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

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 56: Floodplain Riparian Woodland - Dundas Tablelands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia melanoxylon Blackwood  MS Bursaria spinosa ssp. spinosa Sweet Bursaria  MS Acacia pycnantha Golden Wattle  MS Myoporum sp. 1 Sticky Boobialla  LH Senecio glomeratus Annual Fireweed  MH Rumex brownii Slender Dock  SH Dichondra repens Kidney-weed  SH Crassula helmsii Swamp Crassula  SH Selliera radicans Shiny Swamp-mat  SH Hydrocotyle sibthorpioides Shining Pennywort  LTG Lomandra longifolia Spiny-headed Mat-rush  LTG Gahnia filum Chaffy Saw-sedge  LTG Poa labillardierei Common Tussock-grass  LTG Juncus kraussii ssp. australiensis Sea Rush  LNG Phragmites australis Common Reed  MTG Lachnagrostis filiformis Common Blown-grass  MTG Austrodanthonia penicillata Slender Wallaby-grass  MTG Dianella revoluta s.l. Black-anther Flax-lily  MTG Bulbine bulbosa Bulbine Lily  MNG Triglochin striatum Streaked Arrowgrass  MNG Schoenus nitens Shiny Bog-sedge  MNG Distichlis distichophylla Australian Salt-grass  EP Muellerina eucalyptoides Creeping Mistletoe  SC Cassytha melantha Coarse Dodder-laurel  SC Calystegia sepium Large Bindweed  **Recruitment:**  Episodic/Flood. Desirable period between disturbances is 5 years.  **Organic Litter:**  40 % cover  **Logs:**  30 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Rosa rubiginosa Sweet Briar high high  LH Rumex conglomeratus Clustered Dock high high  LH Sonchus oleraceus Common Sow-thistle high low  LH Rumex crispus Curled Dock high high LH Helminthotheca echioides Ox-tongue high low  LH Aster subulatus Aster-weed high low  LH Cirsium vulgare Spear Thistle high high  LH Sonchus asper s.l. Rough Sow-thistle high low  LH Plantago lanceolata Ribwort high low  MH Hypochoeris radicata Cat's Ear high low  MH Plantago major Greater Plantain high low  MH Brassica fruticulosa Twiggy Turnip high high  MH Atriplex prostrata Hastate Orache high high  LTG Phalaris aquatica Toowoomba Canary-grass high high  LNG Holcus lanatus Yorkshire Fog high high  MTG Cyperus eragrostis Drain Flat-sedge high high  MTG Bromus catharticus Prairie Grass high low  MTG Lolium perenne Perennial Rye-grass high high  MNG Paspalum distichum Water Couch high high  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Dundas Tablelands bioregion

EVC 67: Alluvial Terraces Herb-rich Woodland

Description:

Open woodland to 15 m tall on broad alluvial plains and along ephemeral drainage lines. Soils are generally poorly drained duplex soils with sandy loam overlying a heavier clay subsoil. Understorey consists of few, if any shrubs with the striking feature of this EVC being the high species-richness of the ground-layer and the low biomass of this cover, particularly in summer.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 10% | Eucalyptus melliodora | Yellow Box |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 2 | 1% | MS |
| Small Shrub | 2 | 1% | SS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 10 | 20% | MH |
| Small or Prostrate Herb | 4 | 10% | SH |
| Medium to Small Tufted Graminoid | 10 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 4 | 5% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |
| **Total understorey projective foliage cover** |  | **85%** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  MS |  | **Species typical of at least part of EVC range**  Leptospermum myrsinoides | **Common Name**  Heath Tea-tree |
| MS |  | Leptospermum continentale | Prickly Tea-tree |
| SS |  | Leucopogon rufus | Ruddy Beard-heath |
| SS |  | Hibbertia stricta s.l. | Upright Guinea-flower |
| LH |  | Senecio quadridentatus | Cotton Fireweed |
| MH |  | Burchardia umbellata | Milkmaids |
| MH |  | Asperula conferta | Common Woodruff |
| MH |  | Stegostyla iridescens | Western Bronzehood |
| SH |  | Hydrocotyle laxiflora | Stinking Pennywort |
| SH |  | Siloxerus multiflorus | Small Wrinklewort |
| SH |  | Myriocephalus rhizocephalus | Woolly-heads |
| SH | r | Asperula minima | Mossy Woodruff |
| MTG |  | Dianella revoluta s.l. | Black-anther Flax-lily |
| MTG |  | Lomandra nana | Dwarf Mat-rush |
| MTG |  | Poa sieberiana var. hirtella | Grey Tussock-grass |
| MTG |  | Schoenus apogon | Common Bog-sedge |
| MNG |  | Triglochin nanum | Dwarf Arrowgrass |
| MNG |  | Microlaena stipoides var. stipoides | Weeping Grass |
| TTG |  | Isolepis marginata | Little Club-sedge |
| TTG |  | Centrolepis strigosa ssp. strigosa | Hairy Centrolepis |
| TTG |  | Centrolepis aristata | Pointed Centrolepis |
| EP |  | Amyema miquelii | Box Mistletoe |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 67: Alluvial Terraces Herb-rich Woodland - Dundas Tablelands bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  10 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low MH Hypochoeris glabra Smooth Cat's-ear high low MH Cicendia filiformis Slender Cicendia high low MH Anagallis arvensis Pimpernel high low  MH Parentucellia latifolia Red Bartsia high low  MH Trifolium dubium Suckling Clover high low MH Moenchia erecta Erect Chickweed high low  MH Cerastium glomeratum s.l. Common Mouse-ear Chickweed high low MH Sherardia arvensis Field Madder high low  MTG Briza minor Lesser Quaking-grass high low  MTG Romulea rosea Onion Grass high low  MNG Juncus capitatus Capitate Rush high low MNG Aira elegantissima Delicate Hair-grass high low  TTG Cyperus tenellus Tiny Flat-sedge high low TTG Isolepis hystrix Awned Club-sedge high low  Published by the Victorian Government Department of Sustainability and Environment May 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Dundas Tablelands bioregion

EVC 68: Creekline Grassy Woodland

Description:

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

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

Tree Canopy Cover:

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

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

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 68: Creekline Grassy Woodland - Dundas Tablelands bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  40 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  T Salix fragilis Crack Willow high high  MS Lycium ferocissimum African Box-thorn low high MS Genista monspessulana Montpellier Broom high high  MS Rosa rubiginosa Sweet Briar low high  MS Rubus sp. aff. armeniacus Blackberry high high  LH Plantago lanceolata Ribwort high low  LH Sonchus oleraceus Common Sow-thistle high low  LH Hirschfeldia incana Buchan Weed high high LH Verbena bonariensis s.l. Purple-top Verbena high high  LH Rumex crispus Curled Dock high high  LH Rumex conglomeratus Clustered Dock high high  LH Conium maculatum Hemlock high high  LH Helminthotheca echioides Ox-tongue high low LH Aster subulatus Aster-weed high low  LH Sonchus asper s.l. Rough Sow-thistle high low  LH Solanum nigrum sensu Willis (1972) Black Nightshade high high MH Brassica fruticulosa Twiggy Turnip high high  MH Hypochoeris radicata Cat's Ear high low  MH Foeniculum vulgare Fennel high high  SH Modiola caroliniana Red-flower Mallow high low  LTG Phalaris aquatica Toowoomba Canary-grass high high  LTG Piptatherum miliaceum Rice Millet high high MTG Ehrharta erecta var. erecta Panic Veldt-grass high high  MTG Paspalum dilatatum Paspalum high high  MTG Bromus catharticus Prairie Grass high low  MTG Romulea rosea Onion Grass high low  MTG Bromus diandrus Great Brome high low  MTG Briza maxima Large Quaking-grass high low  MTG Agrostis capillaris s.l. Brown-top Bent high high  MNG Dactylis glomerata Cocksfoot high high  MNG Paspalum distichum Water Couch high high SC Tradescantia fluminensis Wandering Jew high high  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Dundas Tablelands bioregion

EVC 71: Hills Herb-rich Woodland

Description:

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

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

Tree Canopy Cover:

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

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

Ecological Vegetation Class bioregion benchmark

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

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

Dundas Tablelands bioregion

EVC 125: Plains Grassy Wetland

###### Description:

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

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

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

###### Recruitment:

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

###### Organic Litter:

10% cover

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 125: Plains Grassy Wetland - Dundas Tablelands bioregion | |
|  | **Logs:**  5 m/0.1 ha.(where trees are overhanging the wetland)  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  SS Marrubium vulgare Horehound high high  LH Parentucellia viscosa Yellow Bartsia high low  LH Cirsium vulgare Spear Thistle high low  MH Trifolium dubium Suckling Clover high low MH Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low MH Hypochoeris radicata Cat's Ear high low MH Trifolium campestre var. campestre Hop Clover high low MH Mentha pulegium Pennyroyal high high  MH Cicendia filiformis Slender Cicendia high low  MH Cotula coronopifolia Water Buttons high high MH Cicendia quadrangularis Square Cicendia high low MH Trifolium subterraneum Subterranean Clover high low  MH Trifolium scabrum Rough Clover high low  MH Arctotheca calendula Cape Weed high low  LTG Phalaris aquatica Toowoomba Canary-grass high high  LNG Holcus lanatus Yorkshire Fog high high  MTG Briza minor Lesser Quaking-grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low  MTG Romulea rosea Onion Grass high low  MTG Lolium perenne Perennial Rye-grass high high  MTG Critesion marinum Sea Barley-grass high low  MTG Poa annua Annual Meadow-grass high low MTG Bromus hordeaceus ssp. hordeaceus Soft Brome high low MNG Juncus capitatus Capitate Rush high low  TTG Cyperus tenellus Tiny Flat-sedge high low  TTG Isolepis hystrix Awned Club-sedge high low  Published by the Victorian Government Department of Sustainability and Environment April 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

Dundas Tablelands bioregion

EVC 132: Plains Grassland

Description:

Treeless vegetation dominated by largely graminoid and herb life forms. Shrubs and trees may be also occasionally present.

|  |  |  |  |
| --- | --- | --- | --- |
| Life Forms: Life form | #Spp | %Cover | LF code |
| Small Shrub | 1 | 1% | SS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 10 | 15% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 13 | 40% | MTG |
| Medium to Tiny Non-tufted Graminoid | 4 | 10% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

|  |  |  |
| --- | --- | --- |
| LF Code | Species typical of at least part of EVC range | Common Name |
| SS | Pimelea humilis | Common Rice-flower |
| LH | Eryngium ovinum | Blue Devil |
| LH | Senecio quadridentatus | Cottony Fireweed |
| MH | Calocephalus citreus | Lemon Beauty-heads |
| MH | Acaena echinata | Sheep's Burr |
| MH | Leptorhynchos squamatus | Scaly Buttons |
| MH | Geranium retrorsum s.l. | Grassland Crane’s-bill |
| SH | Solenogyne dominii | Smooth Solenogyne |
| SH | Lobelia pratioides | Poison Lobelia |
| LTG | Austrostipa bigeniculata | Kneed Spear-grass |
| MTG | Themeda triandra | Kangaroo Grass |
| MTG | Austrodanthonia caespitosa | Common Wallaby-grass |
| MTG | Elymus scaber var. scaber | Common Wheat-grass |
| MTG | Schoenus apogon | Common Bog-sedge |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |

Recruitment:

Episodic/Fire or Grazing. Desirable period between disturbances is 5 years.

Organic Litter:

10% cover

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 132: Plains Grassland – Dundas Tablelands bioregion | |
|  | Weediness:  LF Code Typical Weed Species Common Name Invasive Impact  LH Plantago lanceolata Ribwort high low  LH Cirsium vulgare Spear Thistle high high  LH Sonchus oleraceus Common Sow-thistle high low  MH Hypochoeris radicata Cat's Ear high low MH Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low  MH Trifolium subterraneum Subterranean Clover high low  MH Plantago coronopus Buck's-horn Plantain high low  MH Trifolium striatum Knotted Clover high low  MH Trifolium dubium Suckling Clover high low  LTG Phalaris aquatica Toowoomba Canary-grass high high  LNG Holcus lanatus Yorkshire Fog high high  MTG Romulea rosea Onion Grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low  MTG Briza minor Lesser Quaking-grass high low MTG Bromus hordeaceus ssp. hordeaceus Soft Brome high low  MTG Briza maxima Large Quaking-grass high low  MTG Lolium rigidum Wimmera Rye-grass high low  MTG Lolium perenne Perennial Rye-grass high low  MTG Nassella neesiana Chilean Needle-grass high high  MNG Cynosurus echinatus Rough Dog's-tail high low  MNG Juncus capitatus Capitate Rush high low  Published by the Victorian Government Department of Sustainability and Environment November 2007  © The State of Victoria Department of Sustainability and Environment 2007  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Dundas Tablelands bioregion

EVC 134: Sand Forest

Description:

Eucalypt forest to 20 m tall occurring on deep, low fertility sand deposits subject to high fire frequency. The understorey is visually dominated by Austral Bracken and the overall diversity is low.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 30% | Eucalyptus viminalis ssp. cygnetensis | Rough-barked Manna-gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 3 | 5% | MS |
| Small Shrub | 1 | 5% | SS |
| Prostrate Shrub | 2 | 5% | PS |
| Medium Herb | 2 | 5% | MH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 7 | 15% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 1% | MNG |
| Ground Fern | 1 | 50% | GF |
| Bryophytes/Lichens | na | 10% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia mearnsii | **Common Name**  Black Wattle |
| MS | Leptospermum continentale | Prickly Tea-tree |
| MS | Brachyloma daphnoides | Daphne Heath |
| MS | Acacia paradoxa | Hedge Wattle |
| SS | Astroloma conostephioides | Flame Heath |
| PS | Bossiaea prostrata | Creeping Bossiaea |
| PS | Astroloma humifusum | Cranberry Heath |
| MH | Goodenia geniculata | Bent Goodenia |
| MH | Gonocarpus tetragynus | Common Raspwort |
| LTG | Xanthorrhoea australis | Austral Grass-tree |
| MTG | Lomandra filiformis | Wattle Mat-rush |
| MTG | Austrodanthonia geniculata | Kneed Wallaby-grass |
| MTG | Lomandra nana | Dwarf Mat-rush |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| GF | Pteridium esculentum | Austral Bracken |

**Recruitment:**

Continuous

Organic Litter:

40 % cover

Logs:

15 m/0.1 ha.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 134: Sand Forest – Dundas Tablelands bioregion | |
|  | **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low  MH Hypochoeris glabra Smooth Cat's-ear high low  LNG Holcus lanatus Yorkshire Fog high high  MNG Vulpia bromoides Squirrel-tail Fescue high low  MNG Briza minor Lesser Quaking-grass high low  MNG Briza maxima Large Quaking-grass high low  MNG Aira elegantissima Delicate Hair-grass high low  MNG Holcus setosus Annual Fog high low  MNG Aira praecox Early Hair-grass high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Dundas Tablelands bioregion

EVC 136: Sedge Wetland

Description:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Life forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 1 | 1% | MS |
| Large Herb | 4 | 10% | LH |
| Medium Herb | 10 | 20% | MH |
| Small or Prostrate Herb | 3 | 10% | SH |
| Large Tufted Graminoid | 3 | 5% | LTG |
| Medium to Small Tufted Graminoid | 11 | 30% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 10% | MNG |
| Tiny Tufted Graminoid | 2 | 5% | TTG |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Leptospermum continentale | **Common Name**  Prickly Tea-tree |
| LH | Epilobium billardierianum | Variable Willow-herb |
| LH | Myriophyllum crispatum | Upright Water-milfoil |
| LH | Villarsia reniformis | Running Marsh-flower |
| MH | Stylidium despectum | Small Trigger-plant |
| MH | Rumex brownii | Slender Dock |
| MH | Gratiola pubescens | Glandular Brooklime |
| SH | Solenogyne dominii | Smooth Solenogyne |
| SH | Phyllangium divergens | Wiry Mitrewort |
| SH | Lobelia pratioides | Poison Lobelia |
| LTG | Deyeuxia quadriseta | Reed Bent-grass |
| LTG | Carex tereticaulis | Hollow Sedge |
| MTG | Juncus amabilis | Hollow Rush |
| MTG | Juncus holoschoenus | Joint-leaf Rush |
| MTG | Austrodanthonia caespitosa | Common Wallaby-grass |
| MTG | Carex inversa | Knob Sedge |
| MNG | Chorizandra enodis | Black Bristle-sedge |
| TTG | Isolepis marginata | Little Club-sedge |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 136: Sedge Wetland - Dundas Tablelands bioregion | |
|  | **Recruitment:**  Episodic/Flood. Desirable period between disturbances is 5 years  **Organic Litter:**  10 % cover  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low MH Hypochoeris radicata Cat's Ear high low  MH Hypochoeris glabra Smooth Cat's-ear high low  MH Cotula coronopifolia Water Buttons high high  MTG Critesion hystrix Mediterranean Barley-grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low  MTG Romulea rosea Onion Grass high low  MTG Lolium perenne Perennial Rye-grass high high  MTG Briza minor Lesser Quaking-grass high low  MNG Holcus setosus Annual Fog high low  MNG Aira elegantissima Delicate Hair-grass high low  TTG Isolepis hystrix Awned Club-sedge high low  TTG Cyperus tenellus Tiny Flat-sedge high low  Published by the Victorian Government Department of Sustainability and Environment May 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Dundas Tablelands bioregion

EVC 175: Grassy Woodland

Description:

A variable open eucalypt woodland to 15 m tall or occasionally Sheoak woodland to 10 m tall over a diverse ground layer of grasses and herbs. The shrub component is usually sparse. It occurs on sites with moderate fertility on gentle slopes or undulating hills on a range of geologies.

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

Tree Canopy Cover:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 2 | 10% | MS |
| Small Shrub | 2 | 1% | SS |
| Prostrate Shrub | 2 | 5% | PS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 8 | 20% | MH |
| Small or Prostrate Herb | 3 | 5% | SH |
| Large Tufted Graminoid | 1 | 1% | LTG |
| Medium to Small Tufted Graminoid | 8 | 40% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 5% | MNG |
| Scrambler or Climber | 1 | 1% | SC |
| Bryophytes/Lichens | na | 10% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Allocasuarina verticillata | **Common Name**  Drooping Sheoak |
| T | Acacia mearnsii | Black Wattle |
| MS | Bursaria spinosa | Sweet Bursaria |
| MS | Cassinia arcuata | Drooping Cassinia |
| MS | Acacia pycnantha | Golden Wattle |
| SS | Pimelea humilis | Common Rice-flower |
| PS | Atriplex semibaccata | Berry Saltbush |
| MH | Acaena echinata | Sheep's Burr |
| MH | Einadia nutans ssp. nutans | Nodding Saltbush |
| SH | Crassula sieberiana | Sieber Crassula |
| SH | Dichondra repens | Kidney-weed |
| MTG | Lomandra filiformis | Wattle Mat-rush |
| MTG | Austrostipa scabra | Rough Spear-grass |
| MTG | Austrodanthonia caespitosa | Common Wallaby-grass |
| MTG | Dianella revoluta s.l. | Black-anther Flax-lily |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| SC | Clematis microphylla | Small-leaved Clematis |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 175: Grassy Woodland - Dundas Tablelands bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Lycium ferocissimum African Box-thorn low high MH Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low MH Hypochoeris radicata Cat's Ear high low  MH Arctotheca calendula Cape Weed high low  MTG Briza maxima Large Quaking-grass high low  MTG Romulea rosea Onion Grass high low MTG Ehrharta erecta var. erecta Panic Veldt-grass high high  MTG Ehrharta longiflora Annual Veldt-grass high low  MTG Nassella neesiana Chilean Needle-grass high high  MTG Nassella trichotoma Serrated Tussock 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**

Dundas Tablelands bioregion

EVC 179: Heathy Herb-rich Woodland

Description:

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

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

Tree Canopy Cover:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 2 | 15% | T |
| Medium Shrub | 6 | 25% | MS |
| Small Shrub | 7 | 15% | SS |
| Prostrate Shrub | 3 | 5% | PS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 7 | 10% | MH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Medium to Small Tufted Graminoid | 8 | 15% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 10% | MNG |
| Tiny Tufted Graminoid | 2 | 1% | TTG |
| Ground Fern | 1 | 15% | GF |
| Scrambler/Climber | 3 | 5% | SC |
| Bryophytes/Lichens | na | 10% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 179: Heathy Herb-rich Woodland - Dundas Tablelands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia melanoxylon Blackwood  T Acacia mearnsii Black Wattle  MS Leptospermum myrsinoides Heath Tea-tree  MS Leptospermum continentale Prickly Tea-tree  MS Epacris impressa Common Heath  MS Banksia marginata Silver Banksia  SS Hibbertia sericea s.l. Silky Guinea-flower  SS Hibbertia fasciculata var. prostrata Bundled Guinea-flower  SS Astroloma conostephioides Flame Heath  SS Tetratheca ciliata Pink-bells  PS Styphelia adscendens Golden Heath  PS r Boronia nana var. nana Dwarf Boronia  PS Boronia nana Dwarf Boronia  PS Gompholobium ecostatum Dwarf Wedge-pea  LH Dipodium roseum s.s. Rosy Hyacinth-orchid  LH Senecio tenuiflorus Slender Fireweed  MH Goodenia geniculata Bent Goodenia  MH Helichrysum scorpioides Button Everlasting  MH Gonocarpus tetragynus Common Raspwort  LTG r Xanthorrhoea caespitosa Tufted Grass-tree  LTG Xanthorrhoea minor ssp. lutea Small Grass-tree  MTG Lomandra nana Dwarf Mat-rush  MTG Dichelachne crinita Long-hair Plume-grass  MTG Lomandra micrantha s.l. Small-flower Mat-rush  MNG Hypolaena fastigiata Tassel Rope-rush  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Lepidobolus drapetocoleus Scale Shedder  TTG Centrolepis strigosa ssp. strigosa Hairy Centrolepis  TTG Schoenus breviculmis Matted Bog-sedge  GF Pteridium esculentum Austral Bracken  SC Cassytha pubescens s.s. Downy Dodder-laurel  SC Cassytha glabella Slender Dodder-laurel  EP Amyema pendula Drooping Mistletoe  SC Hardenbergia violacea Purple Coral-pea  **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low  MH Hypochoeris glabra Smooth Cat's-ear high low  LNG Holcus lanatus Yorkshire Fog high high  MTG Vulpia bromoides Squirrel-tail Fescue high low  MTG Bromus diandrus Great Brome high low  MNG Aira cupaniana Quicksilver Grass high low  MNG Cynosurus echinatus Rough Dog's-tail high low  MNG Aira spp. Hair Grass high low  MNG Aira elegantissima Delicate Hair-grass high low  Und Vulpia spp. Fescue high low  Published by the Victorian Government Department of Sustainability and Environment September 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Dundas Tablelands bioregion

EVC 191: Riparian Scrub

Description:

A dense shrubland to 6 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.

Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 50% | Leptospermum lanigerum | Woolly Tea-tree |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 2 | 10% | MS |
| Large Herb | 4 | 10% | LH |
| Medium Herb | 10 | 15% | MH |
| Small or Prostrate Herb | 4 | 5% | SH |
| Large Tufted Graminoid | 3 | 20% | LTG |
| Large Non-tufted Graminoid | 2 | 5% | LNG |
| Medium to Small Tufted Graminoid | 10 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 10% | MNG |
| 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 | Bursaria spinosa ssp. spinosa | Sweet Bursaria |
| MH | Oxalis perennans | Grassland Wood-sorrel |
| SH | Oxalis exilis | Shady Wood-sorrel |
| SH | Crassula helmsii | Swamp Crassula |
| LTG | Poa labillardierei | Common Tussock-grass |
| LTG | Carex tereticaulis | Hollow Sedge |
| LTG | Carex appressa | Tall Sedge |
| LNG | Phragmites australis | Common Reed |
| MTG | Triglochin procerum s.l. | Water Ribbons |
| MNG | Triglochin striatum | Streaked Arrowgrass |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |

**Recruitment:**

Continuous

Organic Litter:

40% cover

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 191: Riparian Scrub - Dundas Tablelands Plain bioregion | |
|  | **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Rumex conglomeratus Clustered Dock high high  LH Sonchus oleraceus Common Sow-thistle high low  LH Cirsium vulgare Spear Thistle high high  MH Trifolium dubium Suckling Clover high low  MH Trifolium subterraneum Subterranean Clover high low  MH Hypochoeris radicata Cat's Ear high high MH Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high high  LNG Holcus lanatus Yorkshire Fog high high MTG Bromus hordeaceus ssp. hordeaceus Soft Brome high low  MTG Briza maxima Large Quaking-grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low  MTG Romulea rosea Onion Grass high low  MTG Bromus diandrus Great Brome high low  MTG Anthoxanthum odoratum Sweet Vernal-grass high high  MNG Cynosurus echinatus Rough Dog's-tail 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**

Dundas Tablelands bioregion

EVC 193: Rocky Outcrop Herbland

Description:

Herbland associated with rock outcrops, generally in mosaic with Rocky Outcrop Shrubland. Subject to microclimatic extremes, being typically damp to wet in winter and dry in summer. Trees are rare although scattered spindly eucalypts can occur. Scattered shrubs may also be present. Most prominent life forms are grasses, herbs and geophytes.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Large Shrub | 2 | 10% | T |
| Medium Shrub | 4 | 10% | MS |
| Small Shrub | 4 | 5% | SS |
| Prostrate Shrub | 2 | 1% | PS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 3 | 5% | MH |
| Large Tufted Graminoid | 2 | 5% | LTG |
| Medium to Small Tufted Graminoid | 3 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Ground Fern | 1 | 1% | GF |
| Scrambler or Climber | 1 | 1% | SC |
| Bryophytes/Lichens | na | 40% | BL |
| **Total understorey projective foliage cover** |  | **80%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Callitris rhomboidea | **Common Name**  Oyster Bay Pine |
| MS | Dodonaea viscosa ssp. cuneata | Wedge-leaf Hop-bush |
| MS | Acacia oxycedrus | Spike Wattle |
| MS | Calytrix tetragona | Common Fringe-myrtle |
| SS | Tetratheca ciliata | Pink-bells |
| SS | Pimelea humilis | Common Rice-flower |
| SS | Dillwynia glaberrima | Smooth Parrot-pea |
| SS | Leucopogon glacialis | Twisted Beard-heath |
| PS | Acrotriche serrulata | Honey-pots |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Platysace heterophylla | Slender Platysace |
| LTG | Gahnia sieberiana | Red-fruit Saw-sedge |
| LTG | Xanthorrhoea australis | Austral Grass-tree |
| MTG | Dianella revoluta s.l. | Black-anther Flax-lily |
| MTG | Lepidosperma laterale | Variable Sword-sedge |
| MTG | Lomandra filiformis | Wattle Mat-rush |
| MTG | Lepidosperma semiteres | Wire Rapier-sedge |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| GF | Pteridium esculentum | Austral Bracken |
| SC | Cassytha pubescens s.s. | Downy Dodder-laurel |
| SC | Grevillea aquifolium | Variable Prickly Grevillea |

Recruitment:

Continuous

Organic Litter:

10% cover

Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 193: Rocky Outcrop Herbland - Dundas Tablelands bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Dundas Tablelands bioregion

EVC 195: Seasonally Inundated Shrubby Woodland

Description:

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

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

Tree Canopy Cover:

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

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

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

Ecological Vegetation Class bioregion benchmark

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

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

Dundas Tablelands bioregion

EVC 198: Sedgy Riparian Woodland

Description:

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

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

Tree Canopy Cover:

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

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

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

Ecological Vegetation Class bioregion benchmark

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

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

Dundas Tablelands bioregion

EVC 279: Heathland Thicket

Description:

Heathland Thicket can form linear patches along drainage lines or form thicket islands in shallow depressions within expanses of Sand Heathland. A dense, impenetrable thicket of Totem Poles Melaleuca decussata to 2 m tall dominates this floristic community. Due to the dense nature of the thicket, very little light reaches the ground stratum, so the ground is mostly bare, with occasional moss cover.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life forms: Life form** Medium Shrub | **#Spp**  8 | **%Cover**  50% | **LF code**  MS |
| Small Shrub | 4 | 10% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 3 | 5% | MH |
| 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 | 10% | BL |
| **Total understorey projective foliage cover** |  | **70%** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **LF Code**  MS |  | **Species typical of at least part of EVC range**  Melaleuca decussata | **Common Name**  Totem-poles |
| MS |  | Leptospermum continentale | Prickly Tea-tree |
| MS |  | Epacris impressa | Common Heath |
| MS |  | Hakea rostrata | Beaked Hakea |
| SS |  | Gompholobium huegelii | Common Wedge-pea |
| SS | r | Hibbertia cistiflora ssp. rostrata | Rock Rose Guinea-flower |
| SS |  | Hovea heterophylla | Common Hovea |
| SS |  | Hibbertia riparia | Erect Guinea-flower |
| PS |  | Astroloma humifusum | Cranberry Heath |
| PS |  | Acrotriche serrulata | Honey-pots |
| LH |  | Chrysocephalum apiculatum s.l. | Common Everlasting |
| LH |  | Ixodia achillaeoides | Ixodia |
| MH |  | Gonocarpus tetragynus | Common Raspwort |
| MH |  | Hypericum gramineum | Small St John's Wort |
| LTG |  | Xanthorrhoea australis | Austral Grass-tree |
| MTG |  | Schoenus apogon | Common Bog-sedge |
| MTG |  | Lomandra sororia | Small Mat-rush |
| MTG |  | Lomandra glauca s.l. | Pale Mat-rush |
| MTG |  | Dianella revoluta s.l. | Black-anther Flax-lily |
| MNG |  | Leptocarpus tenax | Slender Twine-rush |
| MNG |  | Hypolaena fastigiata | Tassel Rope-rush |
| TTG |  | Centrolepis strigosa ssp. strigosa | Hairy Centrolepis |
| SC |  | Cassytha pubescens s.s. | Downy Dodder-laurel |
| SC |  | Cassytha glabella | Slender Dodder-laurel |
| SC |  | Grevillea aquifolium | Variable Prickly Grevillea |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 279: Heathland Thicket – Dundas Tablelands bioregion | |
|  | **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 30 years.  **Organic Litter:**  20 % Cover  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris glabra Smooth Cat's-ear high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Dundas Tablelands bioregion

EVC 280: Floodplain Thicket

Description:

Eucalypt woodland to 15 m tall above an often tall dense thicket of understorey shrubs tolerant of seasonal waterlogging. The ground layer commonly consists of sedges and restionaceous species. Occurs on flood-plains where water running off ranges onto broad alluvial flats gives rise to a multitude of interlinking channels, and it is within and between these channels that Floodplain Thicket occurs. Soils are alluviums varying from black anaerobic alluvial clay sands to pale grey silty clays.

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

Tree Canopy Cover:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Understorey Tree or Large Shrub | 1 | 5% | T |
| Medium Shrub | 8 | 50% | MS |
| Small Shrub | 1 | 5% | SS |
| Large Herb | 1 | 5% | LH |
| Medium Herb | 2 | 1% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Tufted Graminoid | 4 | 15% | LTG |
| Medium to Small Tufted Graminoid | 2 | 5% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 15% | MNG |
| Bryophytes/Lichens | na | 20% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia melanoxylon | **Common Name**  Blackwood |
| MS | Hakea nodosa | Yellow Hakea |
| MS | Leptospermum continentale | Prickly Tea-tree |
| MS | Melaleuca squamea | Swamp Honey-myrtle |
| MS | Melaleuca squarrosa | Scented Paperbark |
| LH | Villarsia reniformis | Running Marsh-flower |
| MH | Gratiola peruviana | Austral Brooklime |
| SH | Gonocarpus micranthus | Creeping Raspwort |
| LTG | Gahnia sieberiana | Red-fruit Saw-sedge |
| LTG | Carex appressa | Tall Sedge |
| LTG | Juncus pallidus | Pale Rush |
| LTG | Baloskion tetraphyllum ssp. tetraphyllum | Tassel Cord-rush |
| MTG | Lepidosperma laterale | Variable Sword-sedge |
| MTG | Schoenus apogon | Common Bog-sedge |
| MNG | Leptocarpus tenax | Slender Twine-rush |
| MNG | Baumea tetragona | Square Twig-sedge |
| MNG | Hypolaena fastigiata | Tassel Rope-rush |
| SC | Cassytha glabella | Slender Dodder-laurel |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 280: Floodplain Thicket - Dundas Tablelands bioregion | |
|  | **Recruitment:**  Episodic/Flood. Desirable period between disturbances is 5 years.  **Organic Litter:**  20% cover  **Logs:**  10 m/0.1 ha.  **Weediness:**  There are no consistent weeds in this EVC.  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Dundas Tablelands bioregion

EVC 282: Shrubby Woodland

Description:

Eucalypt woodland to 15 m tall with a tall and often dense shrubby understorey. Ground cover variously dominated by sedges, grasses and herbs. Soils generally duplex with sandy loam overlying heavy clay subsoil, prone to seasonal inundation periods. Commonly found on valley floors.

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

Tree Canopy Cover:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Understorey Tree or Large Shrub | 2 | 10% | T |
| Medium Shrub | 6 | 40% | MS |
| Small Shrub | 3 | 5% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 2 | 1% | LH |
| Medium Herb | 5 | 5% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Tufted Graminoid | 2 | 10% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 4 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 10% | MNG |
| Ground Fern | 1 | 1% | GF |
| Bryophytes/Lichens | na | 10% | BL |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 282: Shrubby Woodland - Dundas Tablelands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia mearnsii Black Wattle  T Acacia melanoxylon Blackwood  MS Banksia marginata Silver Banksia  MS Leptospermum continentale Prickly Tea-tree  MS Leptospermum scoparium Manuka  MS Hakea nodosa Yellow Hakea  SS Hibbertia riparia Erect Guinea-flower  SS r Hibbertia cistiflora ssp. rostrata Rock Rose Guinea-flower  PS Astroloma humifusum Cranberry Heath  PS Acrotriche serrulata Honey-pots  MH Lagenophora stipitata Common Bottle-daisy  MH Hypericum gramineum Small St John's Wort  MH Euchiton collinus s.s. Creeping Cudweed  SH r Asperula minima Mossy Woodruff  LTG Xanthorrhoea australis Austral Grass-tree  LTG Gahnia sieberiana Red-fruit Saw-sedge  LNG Gahnia radula Thatch Saw-sedge  MTG Lomandra sororia Small Mat-rush  MTG Schoenus apogon Common Bog-sedge  MTG Lomandra multiflora ssp. multiflora Many-flowered Mat-rush  MTG Lomandra filiformis Wattle Mat-rush  MNG Microlaena stipoides var. stipoides Weeping Grass  MNG Leptocarpus tenax Slender Twine-rush  **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low MH Hypochoeris glabra Smooth Cat's-ear high low MH Cerastium glomeratum s.l. Common Mouse-ear Chickweed high low MH Galium murale Small Goosegrass high low  MH Anagallis arvensis Pimpernel high low  MTG Briza minor Lesser Quaking-grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Dundas Tablelands bioregion

EVC 283: Plains Sedgy Woodland

Description:

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

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 10% | Eucalyptus leucoxylon  Eucalyptus camaldulensis Eucalyptus melliodora  Allocasuarina luehmannii | Yellow Gum  River Red-gum Yellow Box Buloke |

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 283: Plains Sedgy Woodland - Dundas Tablelands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  MS Hakea rugosa Dwarf Hakea  MS v Comesperma polygaloides Small Milkwort  SS Eutaxia microphylla Common Eutaxia  PS Astroloma humifusum Cranberry Heath  PS Acrotriche serrulata Honey-pots  LH Eryngium ovinum Blue Devil  LH Brachyscome cardiocarpa Swamp Daisy  LH Villarsia reniformis Running Marsh-flower  MH Utricularia dichotoma s.l. Fairies' Aprons  MH Drosera peltata ssp. peltata Pale Sundew  SH Solenogyne dominii Smooth Solenogyne  SH Myriocephalus rhizocephalus Woolly-heads  SH Hydrocotyle laxiflora Stinking Pennywort  LTG Amphibromus nervosus Common Swamp Wallaby-grass  LNG Baumea rubiginosa s.l. Soft Twig-rush  MTG Lepidosperma congestum Clustered Sword-sedge  MTG Austrodanthonia setacea Bristly Wallaby-grass  MTG Lachnagrostis filiformis var. filiformis Common Blown-grass  MTG Schoenus apogon Common Bog-sedge  MNG Chorizandra enodis Black Bristle-sedge  MNG Eleocharis acuta Common Spike-sedge  TTG Centrolepis aristata Pointed Centrolepis  TTG Centrolepis strigosa ssp. strigosa Hairy Centrolepis  TTG Centrolepis glabra Smooth Centrolepis  TTG Aphelia gracilis Slender Aphelia  SC Thysanotus patersonii Twining Fringe-lily  **Recruitment:**  Continuous  **Organic Litter:**  10 % cover  **Logs:**  15 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Sonchus oleraceus Common Sow-thistle high low MH Hypochoeris radicata Cat's Ear high low  MH Hypochoeris glabra Smooth Cat's-ear high low MH Cicendia filiformis Slender Cicendia high low  MH Anagallis arvensis Pimpernel high low  MTG Romulea rosea Onion Grass high low  MTG Briza minor Lesser Quaking-grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low  MNG Juncus capitatus Capitate Rush high low  TTG Cyperus tenellus Tiny Flat-sedge high low  TTG Isolepis hystrix Awned Club-sedge high low  Published by the Victorian Government Department of Sustainability and Environment May 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Dundas Tablelands bioregion

EVC 285: Dry Creekline Woodland

Description:

Shrub-dominated eucalypt woodland to 15m tall with a sedge and herb-dominated understorey. Occurs along small, narrow, ephemeral streams flowing north and west from the Grampians towards drier regions in the north. Streams are largely dry in summer and often contain coarse alluvial sand deposits derived from a variety of geologies.

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 20% | Eucalyptus obliqua  Eucalyptus goniocalyx s.l.  Eucalyptus viminalis ssp. cygnetensis | Messmate Stringybark  Bundy  Rough-barked Manna Gum |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Medium Shrub | 4 | 20% | MS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 5 | 10% | MH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Medium to Small Tufted Graminoid | 5 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 5% | MNG |
| Tiny Tufted Graminoid\* | 2 | 1% | TTG |
| Bryophytes/Lichens | na | 20% | BL |

\* Largely seasonal life form

**Total understorey projective foliage cover 75%**

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Melaleuca decussata | **Common Name**  Totem Poles |
| MS | Leptospermum continentale | Prickly Tea-tree |
| MS | Dodonaea viscosa | Sticky Hop-bush |
| MS | Calytrix tetragona | Common Fringe-myrtle |
| LH | Senecio tenuiflorus | Slender Fireweed |
| MH | Viola hederacea sensu Entwisle (1996) | Ivy-leaf Violet |
| MH | Gonocarpus elatus | Tall Raspwort |
| MH | Gonocarpus tetragynus | Rough Raspwort |
| MH | Acaena novae-zelandiae | Bidgee-widgee |
| SH | Hydrocotyle laxiflora | Stinking Pennywort |
| SH | Hydrocotyle callicarpa | Small Pennywort |
| SH | Goodenia humilis | Swamp Goodenia |
| LTG | Juncus pallidus | Pale Rush |
| MTG | Lepidosperma laterale | Variable Sword-sedge |
| MTG | Poa morrisii | Soft Tussock-grass |
| MTG | Juncus planifolius | Broad-leaf Rush |
| MTG | Juncus pauciflorus | Loose-flower Rush |
| MNG | Poa tenera | Slender Tussock-grass |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| TTG | Centrolepis strigosa ssp. strigosa | Hairy Centrolepis |
| TTG | Centrolepis aristata | Pointed Centrolepis |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 285: Dry Creekline Woodland - Dundas Tablelands bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  20 % cover  **Logs:**  20 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low  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**

Dundas Tablelands bioregion

EVC 292: Red Gum Swamp

Description:

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

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

Tree Canopy Cover:

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

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

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 292: Red Gum Swamp - Dundas Tablelands bioregion | |
|  | **Recruitment:**  Episodic/Flood – desrirable period of disturbance is once every 5 years  **Organic Litter:**  10% Cover  **Logs:**  10m/0.1 ha  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MH Hypochoeris radicata Cat's Ear high low  MNG Briza minor Lesser Quaking-grass high low  Published by the Victorian Government Department of Sustainability and Environment 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**

Dundas Tablelands bioregion

EVC 300: Reed Swamp

Description:

Closed to open grassland/sedgeland to 3 m tall, dominated by Common Reed and Cumbungi. Small aquatic and semi-aquatic species occur amongst the reeds. Occurs on Quaternary sedimentary geology of mainly estuarine sands, soils are peaty, silty clays, and average annual rainfall is approximately 600 mm. It requires shallow water (to 1 m deep) and low current-scour, and can only tolerate very low levels of salinity.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** Large Herb | **#Spp**  3 | **%Cover**  10% | **LF code**  LH |
| Medium Herb | 2 | 5% | MH |
| Small or Prostrate Herb | 6 | 10% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Large Non-tufted Graminoid | 2 | 40% | LNG |
| Medium to Tiny Non-tufted Graminoid | 1 | 1% | MNG |
| **Total understorey projective foliage cover** |  | **70%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  LH | **Species typical of at least part of EVC range**  Myriophyllum verrucosum | **Common Name**  Red Water-milfoil |
| LH | Myriophyllum salsugineum | Lake Water-milfoil |
| LH | Villarsia reniformis | Running Marsh-flower |
| MH | Rumex bidens | Mud Dock |
| MH | Lilaeopsis polyantha | Australian Lilaeopsis |
| MH | Lepilaena bilocularis | Small-fruit Water-mat |
| SH | Lemna disperma | Common Duckweed |
| SH | Azolla filiculoides | Pacific Azolla |
| SH | Wolffia australiana | Tiny Duckweed |
| SH | Mimulus repens | Creeping Monkey-flower |
| LTG | Triglochin procerum s.l. | Water Ribbons |
| LTG | Juncus ingens | Giant Rush |
| LNG | Schoenoplectus tabernaemontani | River Club-sedge |
| LNG | Phragmites australis | Common Reed |
| LNG | Typha domingensis | Cumbungi |
| LNG | Typha orientalis | Broad-leaf Cumbungi |
| MNG | Lepilaena cylindrocarpa | Long-fruit Water-mat |
| MNG | Eleocharis acuta | Common Spike-sedge |

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  MNG | Cotula coronopifolia  Paspalum distichum | Water Buttons  Water Couch | high  high | high  high |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 300: Reed Swamp – Dundas Tablelands bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Dundas Tablelands bioregion

EVC 640: Creekline Sedgy Woodland

Description:

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

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

Tree Canopy Cover:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **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 |
| Small Shrub | 2 | 1% | SS |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 5 | 10% | MH |
| Small or Prostrate Herb | 1 | 1% | SH |
| Large Tufted Graminoid | 3 | 15% | LTG |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 6 | 20% | MTG |
| Bryophytes/Lichens | na | 10% | BL |
| **Total understorey projective foliage cover** |  | **80%** |  |

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

**Recruitment:**

Continuous

Organic Litter:

40% cover

Logs:

20m/0.1 ha

Ecological Vegetation Class bioregion benchmark

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

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

Dundas Tablelands bioregion

EVC 641: Riparian Woodland

Description:

Occurs beside permanent streams, typically on narrow alluvial deposits. Woodland to 15 m tall generally dominated by Eucalyptus camaldulensis over a tussock grass-dominated understorey. Tall shrubs may be present and amphibious herbs may occur in occasional ponds and beside creeks. While flooding may be common, sites are rarely inundated for lengthy periods.

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

Tree Canopy Cover:

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

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

|  |  |  |
| --- | --- | --- |
| **LF Code**  T | **Species typical of at least part of EVC range**  Acacia melanoxylon | **Common Name**  Blackwood |
| MS | Bursaria spinosa ssp. spinosa | Sweet Bursaria |
| MS | Viminaria juncea | Golden Spray |
| SS | Rubus parvifolius | Small-leaf Bramble |
| LH | Wahlenbergia gracilis s.s. | Sprawling Bluebell |
| LH | Senecio quadridentatus | Cottony Fireweed |
| LH | Myriophyllum crispatum | Upright Water-milfoil |
| MH | Rumex brownii | Slender Dock |
| MH | Oxalis perennans | Grassland Wood-sorrel |
| MH | Mentha australis | River Mint |
| MH | Acaena novae-zelandiae | Bidgee-widgee |
| SH | Dichondra repens | Kidneyweed |
| LTG | Poa labillardierei | Common Tussock-grass |
| LTG | Carex appressa | Tall Sedge |
| LNG | Phragmites australis | Common Reed |
| MTG | Lachnagrostis filiformis var. filiformis | Common Blown-grass |
| MTG | Triglochin procerum s.l. | Water-ribbons |
| MNG | Eleocharis acuta | Common Spike-sedge |
| SC | Calystegia sepium | Large Bindweed |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 641: Riparian Woodland - Dundas Tablelands bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  30% cover  **Logs:**  20m / 0.1 ha  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS Rosa rubiginosa Sweet Briar high high  LH Sonchus oleraceus Common Sow-thistle high low  LH Cirsium vulgare Spear Thistle high high  LH Plantago lanceolata Ribwort high low LH Helminthotheca echioides Ox-tongue high low  LH Rumex crispus Curled Dock high high  LH Aster subulatus Aster-weed high low  LH Rorippa palustris Marsh Yellow-cress high high MH Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low  MH Hypochoeris radicata Cat's Ear high low  LTG Phalaris aquatica Toowoomba Canary-grass high high  LNG Holcus lanatus Yorkshire Fog high high MTG Bromus hordeaceus ssp. hordeaceus Soft Brome high low  MTG Anthoxanthum odoratum Sweet Vernal-grass high high  MNG Paspalum distichum Water Couch high high  SC Galium aparine Cleavers high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Dundas Tablelands bioregion

EVC 647: Plains Sedgy Wetland

Description:

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

|  |  |  |  |
| --- | --- | --- | --- |
| Life Forms: Life form | #Spp | %Cover | LF code |
| Large Herb | 2 | 5% | LH |
| Medium Herb | 4 | 20% | MH |
| Small or Prostrate Herb | 2 | 5% | SH |
| Large Non-tufted Graminoid | 1 | 25% | LNG |
| Medium to Small Tufted Graminoid | 4 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 1 | 5% | MNG |
| 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 |  | Epilobium billardierianum ssp. cinereum | Grey Willow-herb |
| LH |  | Epilobium billardierianum | Variable Willow-herb |
| MH |  | Potamogeton tricarinatus s.l. | Floating Pondweed |
| MH |  | Lilaeopsis polyantha | Australian Lilaeopsis |
| MH |  | Myriophyllum simulans | Amphibious Water-milfoil |
| MH |  | Utricularia dichotoma s.l. | Fairies' Aprons |
| SH |  | Lobelia pratioides | Poison Lobelia |
| SH |  | Neopaxia australasica | White Purslane |
| LTG |  | Amphibromus nervosus | Common Swamp Wallaby-grass |
| LNG |  | Baumea rubiginosa s.l. | Soft Twig-rush |
| MTG |  | Isolepis fluitans | Floating Club-sedge |
| MTG |  | Lachnagrostis filiformis | Common Blown-grass |
| MTG | k | Lachnagrostis filiformis (perennial variety) | Wetland Blown-grass |
| MTG |  | Juncus holoschoenus | Joint-leaf Rush |
| MNG | v | Amphibromus sinuatus | Wavy Swamp Wallaby-grass |
| MNG |  | Schoenus fluitans | Floating Bog-sedge |

Recruitment:

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

Organic Litter:

10% cover

Logs:

5 m/0.1 ha.(where trees are overhanging the wetland)

Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 647: Plains Sedgy Wetland – Dundas Tablelands bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Dundas Tablelands Bioregion

EVC 649: Stony Knoll Shrubland

###### Description:

Stony Knoll Shrubland is a shrubland to 3 m tall or low non-eucalypt woodland to 8 m tall with a grassy understorey. It occurs on low stony rises on basalt flows. The soils are fertile and well drained but shallow with out cropping rock, causing severe summer dryness.

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

Small or Prostrate Herb

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

Ground Fern Scrambler or Climber

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

3 10% MS

1. 1% PS
2. 1% LH

11 10% MH

4 5% SH

10 25% MTG

2 5% MNG

2 5% TTG

2 5% GF

1 0% SC

Bryophytes/Lichens 10% BL



Soil Crust 10% S/C

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  *Acacia paradoxa* | **Common Name**  Hedge Wattle |
| MS | *Melicytus dentatus s.l.* | Tree Violet |
| PS | *Kennedia prostrata* | Running Postman |
| LH | *Senecio glomeratus* | Annual Fireweed |
| LH | *Senecio quadridentatus* | Cotton Fireweed |
| MH | *Acaena ovina* | Australian Sheep's Burr |
| MH | *Hypericum gramineum* | Small St John's Wort |
| MH | *Oxalis perennans* | Grassland Wood-sorrel |
| MH | *Rumex brownii* | Slender Dock |
| SH | *Crassula sieberiana s.l.* | Sieber Crassula |
| SH | *Dichondra repens* | Kidney-weed |
| SH | *Hydrocotyle laxiflora* | Stinking Pennywort |
| MTG | *Austrodanthonia caespitosa* | Common Wallaby-grass |
| MTG | *Austrodanthonia setacea* | Bristly Wallaby-grass |
| MTG | *Poa sieberiana* | Grey Tussock-grass |
| MTG | *Themeda triandra* | Kangaroo Grass |
| MNG | *Microlaena stipoides var. stipoides* | Weeping Grass |
| TTG | *Carex breviculmis* | Common Grass-sedge |
| GF | *Adiantum aethiopicum* | Common Maidenhair |
| GF | *Pteridium esculentum* | Austral Bracken |
| SC | *Convolvulus erubescens spp. agg.* | Pink Bindweed |

Ecological Vegetation Class Bioregion Benchmark

|  |  |
| --- | --- |
| EVC 649: Stony Knoll Shrubland | |
|  | **Recruitment:**  Continuous.  **Organic Litter:**  20 % cover  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  MS *Genista monspessulana* Montpellier Broom high high LH *Echium plantagineum* Paterson's Curse high high LH *Foeniculum vulgare* Fennel high high  LTG *Phalaris aquatica* Toowoomba Canary-grass high high  MTG *Nassella trichotoma* Serrated Tussock high high  MTG *Dactylis glomerata* Cocksfoot high high  MTG *Sporobolus africanus* Rat-tail Grass high high  LNG *Holcus lanatus* Yorkshire Fog high high  SH *Aptenia cordifolia* Heart-leaf Ice-plant high high  T *Schinus molle* Pepper Tree high high LH *Verbascum thapsus subsp. thapsus* Great Mullein high high SS *Marrubium vulgare* Horehound high high  LH *Sonchus oleraceus* Common Sow-thistle high low MH *Trifolium subterraneum* Subterranean Clover high low MTG *Ehrharta longiflora* Annual Veldt-grass high low  LNG *Avena fatua* Wild Oat high low  SH *Modiola caroliniana* Red-flower Mallow high low  SH *Trifolium glomeratum* Cluster Clover high low SH *Medicago polymorpha* Burr Medic high low MH *Cerastium glomeratum s.l.* Common Mouse-ear high low  Chickweed  MH *Lotus subbiflorus* Hairy Bird's-foot Trefoil high low MH *Trifolium angustifolium var.* Narrow-leaf Clover high low  *angustifolium*  MH *Trifolium campestre var. campestre* Hop Clover high low MTG *Aira caryophyllea* Silvery Hair-grass high low  MTG *Avena barbata* Bearded Oat high low  MTG *Bromus rubens* Red Brome high low  MTG *Vulpia myuros* Rat's-tail Fescue high low  MTG *Lolium perenne* Perennial Rye-grass high low MTG *Pentaschistis airoides subsp. airoides* False Hair-grass high low MTG *Romulea rosea* Onion Grass high low  MTG *Vulpia bromoides* Squirrel-tail Fescue high low MTG *Bromus hordeaceus subsp. hordeaceus* Soft Brome high low MTG *Briza maxima* Large Quaking-grass high low MH *Trifolium arvense var. arvense* Hare's-foot Clover high low LH *Helminthotheca echioides* Ox-tongue high low LH *Lactuca serriola* Prickly Lettuce high low LH *Centaurium tenuiflorum* Slender Centaury high low MH *Hypochoeris radicata* Cat's Ear high low  LH *Sisymbrium officinale* Hedge Mustard high low  LH *Sonchus asper s.l.* Rough Sow-thistle high low SC *Vicia sativa subsp. sativa* Common Vetch low low MS *Lycium ferocissimum* African Box-thorn high high  Published by the Victorian Government Department of Sustainability and Environment  © The State of Victoria Government Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-comercial is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson St, East Melbourne, Victoria 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss, of other consequences which may arise from you relying on any information in this publication.  [**www.dse.vic.gov.au**](http://www.dse.vic.gov.au/) |



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

Dundas Tablelands bioregion

EVC 651: Plains Swampy Woodland

Description:

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

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

Tree Canopy Cover:

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

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

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

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 651: Plains Swampy Woodland - Dundas Tablelands bioregion | |
|  | **Recruitment:**  Continuous  **Organic Litter:**  10 % cover  **Logs:**  10 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Plantago lanceolata Ribwort high low  LH Sonchus oleraceus Common Sow-thistle high low  LH Sonchus asper s.l. Rough Sow-thistle high low  LH Cirsium vulgare Spear Thistle high high  MH Trifolium dubium Suckling Clover high low  MH Hypochoeris radicata Cat's Ear high low  MH Prunella vulgaris Self-heal high low MH Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low  LTG Festuca arundinacea Tall Fescue high high  LNG Holcus lanatus Yorkshire Fog high high  MTG Briza minor Lesser Quaking-grass high low  MTG Romulea rosea Onion Grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low  MTG Anthoxanthum odoratum Sweet Vernal-grass high high  MNG Holcus setosus Annual Fog high low  MNG Juncus capitatus Capitate Rush high low  TTG Cyperus tenellus Tiny Flat-sedge high low  Published by the Victorian Government Department of Sustainability and Environment April 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Dundas Tablelands bioregion

EVC 652: Lunette Woodland

Description:

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

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

Tree Canopy Cover:

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

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

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

Ecological Vegetation Class bioregion benchmark

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

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

Dundas Tablelands bioregion

EVC 653: Aquatic Herbland

Description:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Large Herb | 2 | 10% | LH |
| Medium Herb | 5 | 40% | MH |
| Small or Prostrate Herb | 2 | 10% | SH |
| Large Non-tufted Graminoid | 1 | 5% | LNG |
| Medium to Small Tufted Graminoid | 4 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 2 | 15% | MNG |
| **Total understorey projective foliage cover** |  | **90%** |  |

|  |  |  |
| --- | --- | --- |
| **LF Code**  LH | **Species typical of at least part of EVC range**  Villarsia reniformis | **Common Name**  Running Marsh-flower |
| MH | Myriophyllum simulans | Amphibious Water-milfoil |
| MH | Potamogeton tricarinatus s.l. | Floating Pondweed |
| MH | Potamogeton pectinatus | Fennel Pondweed |
| MH | Marsilea drummondii | Common Nardoo |
| SH | Azolla filiculoides | Pacific Azolla |
| SH | Lobelia pratioides | Poison Lobelia |
| SH | Lemna disperma | Duckweed |
| LNG | Eleocharis sphacelata | Tall Spike-sedge |
| MTG | Triglochin procerum s.l. | Water Ribbons |
| MTG | Lachnagrostis filiformis | Common Blown-grass |
| MTG | Glyceria australis | Australian Sweet-grass |
| MTG | Austrodanthonia duttoniana | Brown-back Wallaby-grass |
| MNG | Eleocharis pusilla | Small Spike-sedge |
| MNG | Eleocharis acuta | Common Spike-sedge |

Recruitment:

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

Organic Litter:

10% cover

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Weediness: LF Code** | **Typical Weed Species** | **Common Name** | **Invasive** | **Impact** |
| LH | Aster subulatus | Aster-weed | high | low |
| LH | Rumex crispus | Curled Dock | high | high |
| MH | Plantago coronopus | Buck's-horn Plantain | high | high |
| MH | Cotula coronopifolia | Water Buttons | high | high |
| MTG | Lolium rigidum | Wimmera Rye-grass | high | low |
| MTG | Romulea rosea | Onion Grass | high | low |

Ecological Vegetation Class bioregion benchmark

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

Dundas Tablelands bioregion

EVC 654: Creekline Tussock Grassland

Description:

Creekline Tussock Grassland occurs along low gradient ephemeral and intermittent drainage lines across the volcanic plains. Soils are generally fertile heavy dark clays. Exposed basalt rocks can be common. Dominated by a dense sward of Common Tussock-grass Poa labillardierei primarily with small herbs and typically mat-forming grasses in the inter-tussock spaces. This EVC often includes small areas of sedgeland and/or wetland.

|  |  |  |  |
| --- | --- | --- | --- |
| **Life forms: Life form** Large Herb | **#Spp**  4 | **%Cover**  5% | **LF code**  LH |
| Medium Herb | 8 | 10% | MH |
| Small or Prostrate Herb | 11 | 10% | SH |
| Large Tufted Graminoid | 3 | 40% | LTG |
| Medium to Small Tufted Graminoid | 10 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 4 | 10% | MNG |
| Bryophytes/Lichens | na | 20% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  LH | **Species typical of at least part of EVC range**  Senecio quadridentatus | **Common Name**  Cottony Fireweed |
| LH | Senecio tenuiflorus | Narrow-leaf Groundesl |
| LH | Craspedia glauca spp. agg. | Common Billy-buttons |
| MH | Calocephalus lacteus | Milky Beaty-heads |
| LH | Brachyscome basaltica var. gracilis | Woodland Swamp-daisy |
| MH | Microseris sp. 1 | Yam Daisy |
| MH | Haloragis heterophylla | Varied Raspwort |
| SH | Dichondra repens | Kidneyweed |
| SH | Hydrocotyle sibthorpioides | Shining Pennywort |
| SH | Lobelia pratioides | Poison Lobelia |
| SH | Crassula helmsii | Swamp Crassula |
| LTG | Poa labillardierei | Common Tussock-grass |
| LTG | Carex tereticaulis | Rush Sedge |
| LTG | Juncus kraussii ssp. australiensis | Sea Rush |
| MTG | Austrodanthonia duttoniana | Brown-back Wallaby-grass |
| MTG | Austrodanthonia caespitosa | Common Wallaby-grass |
| MTG | Lachnagrostis filiformis | Common Blown-grass |
| MTG | Juncus planifolius | Broad-leaf Rush |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| MNG | Distichlis distichophylla | Australian Salt Grass |
| MNG | Hemarthria uncinata var. uncinata | Mat Grass |
| MNG | Eleocharis acuta | Common Spike-sedge |

Recruitment:

Episodic – fire/grazing – desirable period of disturbance is every 10 years

Organic Litter:

10% Cover

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 654: Creekline Tussock Grassland - Dundas Tablelands bioregion | |
|  | **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Rumex crispus Curled Dock high low  MH Lotus suaveolens Hairy Bird's-foot Trefoil high high MH Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low  MH Hypochoeris radicata Cat's Ear high low  LNG Holcus lanatus Yorkshire Fog high high  MTG Phalaris aquatica Toowoomba Canary-grass high high MTG Anthoxanthum odoratum Sweet Vernal-grass high high  MNG Paspalum distichum Water Couch high high  MNG Agrostis capillaris Brown-top Bent 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**

Dundas Tablelands bioregion

EVC 673: Dune Soak Woodland

Description:

Sedge and shrub-dominated eucalypt woodland to 15 m tall with a number of herbs and grasses adapted to seasonal water- logging. Occurs on moderately fertile, poorly drained sites on sandy loams derived from former swamp deposits where the underlying geology causes water to soak out from underground aquifers where it collects in narrow depressions at the edge of the plain.

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

Tree Canopy Cover:

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

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

**Recruitment:**

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 673: Dune Soak Woodland – Dundas Tablelands bioregion | |
|  | **LF Code Species typical of at least part of EVC range Common Name**  T Acacia melanoxylon Blackwood  T Banksia marginata Silver Banksia  MS Leptospermum continentale Prickly Tea-tree  MS Hakea rugosa Dwarf Hakea  MS Acacia verticillata Prickly Moses  MS Brachyloma daphnoides Daphne Heath  SS Astroloma conostephioides Flame Heath  SS Leucopogon virgatus var. virgatus Common Beard-heath  SS Pultenaea laxiflora Loose-flower Bush-pea  SS Daviesia brevifolia Leafless Bitter-pea  PS Bossiaea prostrata Creeping Bossiaea  LH Senecio tenuiflorus Slender Fireweed  LH Senecio hispidulus Rough Fireweed  MH Drosera peltata ssp. peltata Pale Sundew  MH Gonocarpus tetragynus Common Raspwort  LTG Austrostipa mollis Supple Spear-grass  LNG Lepidosperma longitudinale Pithy Sword-sedge  MTG Austrodanthonia racemosa var. racemosa Stiped Wallaby-grass  MTG Schoenus apogon Common Bog-sedge  MTG Dichelachne crinita Long-hair Plume-grass  MTG Lepidosperma congestum Clustered Sword-sedge  MNG Lomadra juncea Desert Mat-rush  MNG Hypolaena fastigiata Tassel Rope-rush  MNG Chorizandra enodis Black Bristle-sedge  TTG Centrolepis polygyna Wiry Centrolepis  GF Pteridium esculentum Austral Bracken  SC Billardiera cymosa s.l. Sweet Apple-berry  SC Cassytha glabella Slender Dodder-laurel  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  T Olea europaea ssp. europaea Common Olive high high MS Rubus sp. aff. armeniacus Blackberry high high  SS Pyracantha fortuneana Broad-leaf Firethorn high high  LH Cirsium vulgare Spear Thistle high high  LH Asparagus officinalis Asparagus high high  MH Hypochoeris radicata Cat's Ear high low  MH Centaurium erythraea Common Centaury high low  LNG Avena spp. Oat high low  LNG Holcus lanatus Yorkshire Fog high high  MTG Briza minor Lesser Quaking-grass high low  MNG Vulpia muralis Wall Fescue high low  MNG Juncus capitatus Capitate Rush high low  MNG Aira elegantissima Delicate Hair-grass high low  MNG Aira caryophyllea Silvery Hair-grass high low  TTG Isolepis hystrix Awned Club-sedge high low  TTG Cyperus tenellus Tiny Flat-sedge high low  Und Silene spp. Catchfly high low  Published by the Victorian Government Department of Sustainability and Environment December 2004  © The State of Victoria Department of Sustainability and Environment 2004  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be  directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Dundas Tablelands bioregion

EVC 674: Sandy Stream Woodland

Description:

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

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

Tree Canopy Cover:

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

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

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

Ecological Vegetation Class bioregion benchmark

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

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

Dundas Tablelands bioregion

EVC 704: Lateritic Woodland

Description:

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

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

Tree Canopy Cover:

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

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

\* Largely seasonal life form

Recruitment:

Continuous

Organic Litter:

20% cover

Logs:

15 m / 0.1 ha

Ecological Vegetation Class bioregion benchmark

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Dundas Tablelands bioregion

EVC 705: Basalt Creekline Shrubby Woodland

Description:

Shrub-dominated low eucalypt woodland to 10 m tall, with a range of grasses, sedges and herbs in the understorey. Occurs on heavy soils along low-gradient boggy drainage lines on relatively high rainfall volcanic plains.

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

Tree Canopy Cover:

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

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

|  |  |  |
| --- | --- | --- |
| LF Code | Species typical of at least part of EVC range | Common Name |
| T | Acacia melanoxylon | Blackwood |
| MS | Acacia verticillata | Prickly Moses |
| MS | Leptospermum continentale | Prickly Tea-tree |
| MS | Ozothamnus ferrugineus | Tree Everlasting |
| MS | Coprosma quadrifida | Prickly Currant-bush |
| LH | Epilobium billardierianum | Variable Willow-herb |
| LH | Villarsia reniformis | Running Marsh-flower |
| MH | Centella cordifolia | Centella |
| MH | Lilaeopsis polyantha | Australian Lilaeopsis |
| MH | Utricularia dichotoma s.l. | Fairies' Aprons |
| SH | Eryngium vesiculosum | Prickfoot |
| SH | Neopaxia australasica | White Purslane |
| SH | Lobelia pratioides | Poison Lobelia |
| SH | Hypericum japonicum | Matted St John's Wort |
| LTG | Juncus flavidus | Gold Rush |
| LTG | Amphibromus nervosus | Common Swamp Wallaby-grass |
| LTG | Poa labillardierei | Common Tussock-grass |
| MTG | Glyceria australis | Australian Sweet-grass |
| MTG | Juncus holoschoenus | Joint-leaf Rush |
| MTG | Austrodanthonia duttoniana | Brown-back Wallaby-grass |
| MNG | Eleocharis acuta | Common Spike-sedge |
| MNG | Eleocharis pusilla | Small Spike-sedge |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 705: Basalt Creekline Shrubby Woodland  - Dundas Tabelands bioregion | |
|  | Recruitment:  Continuous  Organic Litter:  20 % cover  Logs:  20 m/0.1 ha.  Weediness:  LF Code Typical Weed Species Common Name Invasive Impact  LH Plantago lanceolata Ribwort high low  LH Sonchus oleraceus Common Sow-thistle high low  LH Sonchus asper s.l. Rough Sow-thistle high low  LH Cirsium vulgare Spear Thistle high high  MH Trifolium dubium Suckling Clover high low  MH Hypochoeris radicata Cat's Ear high low  MH Prunella vulgaris Self-heal high high MH Leontodon taraxacoides ssp. taraxacoides Hairy Hawkbit high low LTG Festuca arundinacea Tall Fescue high high  LNG Holcus lanatus Yorkshire Fog high high  MTG Briza minor Lesser Quaking-grass high low  MTG Romulea rosea Onion Grass high low  MTG Vulpia bromoides Squirrel-tail Fescue high low MTG Anthoxanthum odoratum Sweet Vernal-grass high high MNG Holcus setosus Annual Fog high low  MNG Juncus capitatus Capitate Rush high low  TTG Cyperus tenellus Tiny Flat-sedge high low  Published by the Victorian Government Department of Sustainability and Environment November 2007  © The State of Victoria Department of Sustainability and Environment 2007  This publication is copyright. Reproduction and the making available of this material for personal, in-house or non-commercial purposes is authorised, on condition that:   * the copyright owner is acknowledged; * no official connection is claimed; * the material is made available without charge or at cost; and * the material is not subject to inaccurate, misleading or derogatory treatment.   Requests for permission to reproduce or communicate this material in any way not permitted by this licence (or by the fair dealing provisions of the Copyright Act 1968) should be directed to the Nominated Officer, Copyright, 8 Nicholson Street, East Melbourne, Victoria, 3002.  For more information contact: Customer Service Centre, 136 186  This publication may be of assistance to you but the State of Victoria and its employees do not guarantee that the publication is without flaw of any kind or is wholly appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication. |

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

Dundas Tablelands bioregion

EVC 710: Damp Heathland

Description:

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Life Forms: Life form** | **#Spp** | **%Cover** | **LF code** |
| Medium Shrub | 6 | 30% | MS |
| Small Shrub | 5 | 20% | SS |
| Prostrate Shrub | 2 | 5% | PS |
| Medium Herb | 6 | 10% | MH |
| Small or Prostrate Herb | 2 | 1% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Large Non-tufted Graminoid | 1 | 1% | LNG |
| Medium to Small Tufted Graminoid | 4 | 10% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 15% | MNG |
| Scrambler or Climber | 2 | 5% | SC |
| Bryophytes/Lichens | na | 10% | BL |
| Soil Crust | na | 10% | S/C |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Leptospermum continentale | **Common Name**  Prickly Tea-tree |
| MS | Epacris impressa | Common Heath |
| MS | Banksia marginata | Silver Banksia |
| MS | Leptospermum myrsinoides | Heath Tea-tree |
| SS | Pultenaea stricta | Rigid Bush-pea |
| SS | Hibbertia fasciculata var. prostrata | Bundled Guinea-flower |
| SS | Dillwynia glaberrima | Smooth Parrot-pea |
| SS | Leucopogon glacialis | Twisted Beard-heath |
| PS | Xanthosia dissecta s.l. | Cut-leaf Xanthosia |
| MH | Gonocarpus tetragynus | Common Raspwort |
| MH | Argentipallium obtusifolium | Blunt Everlasting |
| MH | Drosera peltata ssp. auriculata | Tall Sundew |
| SH | Drosera pygmaea | Tiny Sundew |
| MTG | Patersonia fragilis | Short Purple-flag |
| MTG | Schoenus apogon | Common Bog-sedge |
| MNG | Hypolaena fastigiata | Tassel Rope-rush |
| MNG | Leptocarpus tenax | Slender Twine-rush |
| MNG | Baumea juncea | Bare Twig-sedge |
| SC | Cassytha pubescens s.s. | Downy Dodder-laurel |
| SC | Cassytha glabella | Slender Dodder-laurel |

Recruitment:

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

Organic Litter:

20% cover

Weediness:

There are no consistent weeds in this EVC.

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 710: Damp Heathland – Dundas Tablelands bioregion | |
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**EVC/Bioregion Benchmark for Vegetation Quality Assessment**

Dundas Tablelands bioregion

EVC 793: Damp Heathy Woodland

Description:

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

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 10% | Eucalyptus viminalis  Eucalyptus ovata Eucalyptus baxteri | Manna Gum  Swamp Gum Brown Stringybark |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form** | **#Spp** | **%Cover** | **LF code** |
| Immature Canopy Tree |  | 5% | IT |
| Medium Shrub | 6 | 40% | MS |
| Small Shrub | 2 | 10% | SS |
| Prostrate Shrub | 2 | 1% | PS |
| Large Herb | 3 | 5% | LH |
| Medium Herb | 6 | 10% | MH |
| Small or Prostrate Herb | 4 | 5% | SH |
| Large Tufted Graminoid | 3 | 5% | LTG |
| Large Non-tufted Graminoid | 2 | 5% | LNG |
| Medium to Small Tufted Graminoid | 11 | 20% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 15% | MNG |
| Bryophytes/Lichens | na | 10% | BL |

|  |  |  |
| --- | --- | --- |
| **LF Code**  MS | **Species typical of at least part of EVC range**  Leptospermum continentale | **Common Name**  Prickly Tea-tree |
| MS | Epacris impressa | Common Heath |
| MS | Banksia marginata | Silver Banksia |
| MS | Allocasuarina paludosa | Scrub Sheoak |
| SS | Leucopogon virgatus | Common Beard-heath |
| SS | Hibbertia riparia | Erect Guinea-flower |
| SS | Isopogon ceratophyllus | Horny Cone-bush |
| PS | Astroloma conostephioides | Flame Heath |
| PS | Bossiaea prostrata | Creeping Bossiaea |
| MH | Viola hederacea sensu Willis (1972) | Ivy-leaf Violet |
| SH | Opercularia varia | Variable Stinkweed |
| SH | Lobelia pratioides | Poison Lobelia |
| SH | Lobelia pedunculata s.l. | Matted Pratia |
| SH | Dichondra repens | Kidney-weed |
| LTG | Deyeuxia quadriseta | Reed Bent-grass |
| LTG | Xanthorrhoea minor ssp. lutea | Small Grass-tree |
| LNG | Lepidosperma longitudinale | Pithy Sword-sedge |
| LNG | Gahnia radula | Thatch Saw-sedge |
| MTG | Dianella tasmanica | Tasman Flax-lily |
| MTG | Schoenus apogon | Common Bog-sedge |
| MTG | Austrodanthonia racemosa var. racemosa | Stiped Wallaby-grass |
| MTG | Lepidosperma longitudinale | Pithy Sword-sedge |
| MNG | Lepyrodia muelleri | Common Scale-rush |
| MNG | Microlaena stipoides var. stipoides | Weeping Grass |
| MNG | Hypolaena fastigiata | Tassel Rope-rush |
| MNG | Baumea juncea | Bare Twig-sedge |

Ecological Vegetation Class bioregion benchmark

|  |  |
| --- | --- |
| EVC 793: Damp Heathy Woodland – Dundas Tablelands bioregion | |
|  | **Recruitment:**  Episodic/Fire. Desirable period between disturbances is 30 years.  **Organic Litter:**  20 % cover  **Logs:**  10 m/0.1 ha.  **Weediness:**  **LF Code Typical Weed Species Common Name Invasive Impact**  LH Cirsium vulgare Spear Thistle high high MH Hypochoeris radicata Cat's Ear high low MH Centaurium erythraea Common Centaury high low LNG Holcus lanatus Yorkshire Fog high high  MTG Briza minor Lesser Quaking-grass high low MTG Anthoxanthum odoratum Sweet Vernal-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**

Dundas Tablelands bioregion

EVC 803: Plains Woodland

Description:

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

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

Tree Canopy Cover:

|  |  |  |
| --- | --- | --- |
| **%cover** | **Character Species** | **Common Name** |
| 15% | Eucalyptus leucoxylon  Allocasuarina luehmannii Eucalyptus microcarpa  Eucalyptus melliodora | Yellow Gum  Buloke Grey Box Yellow Box |

|  |  |  |  |
| --- | --- | --- | --- |
| **Understorey: Life form**  Immature Canopy Tree | **#Spp** | **%Cover**  5% | **LF code**  IT |
| Medium Shrub | 2 | 5% | MS |
| Small Shrub | 2 | 5% | SS |
| Prostrate Shrub | 1 | 1% | PS |
| Large Herb | 1 | 1% | LH |
| Medium Herb | 20 | 25% | MH |
| Small or Prostrate Herb | 4 | 10% | SH |
| Large Tufted Graminoid | 1 | 5% | LTG |
| Large Non-tufted Graminoid | 1 | 1% | LNG |
| Medium to Small Tufted Graminoid | 16 | 30% | MTG |
| Medium to Tiny Non-tufted Graminoid | 3 | 5% | MNG |
| Bryophytes/Lichens | na | 10% | BL |
| **Total understorey projective foliage cover** |  | **95%** |  |

**Recruitment:**

Continuous

Organic Litter:

20 % cover

Logs:

10 m/0.1 ha.

Ecological Vegetation Class bioregion benchmark

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

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

Dundas Tablelands Bioregion

EVC 821: Tall Marsh

###### Description:

Closed to open grassland/sedgeland to 3 m tall, dominated by Common Reed and Cumbungi. Small aquatic and semi-aquatic species occur amongst the reeds. Occurs on Quaternary sedimentary geology of mainly estuarine sands. Soils are peaty, silty clays, and average annual rainfall is approximately 600 mm. It requires shallow water (to 1 m deep) and low current-scour, and can only tolerate very low levels of salinity.

**Understorey: Lifeform** Large Herb Medium Herb

Small or Prostrate Herb Large Tufted Graminoid Large Non-Tufted Graminoid

Medium to Tiny Non-Tufted Graminoid

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

3 10% LH

2 5% MH

6 10% SH

1. 5% LTG
2. 40% LNG

1 1% MNG



|  |  |  |
| --- | --- | --- |
| **LF Code**  LH | **Species typical of at least part of EVC range**  *Myriophyllum salsugineum* | **Common Name**  Lake Water-milfoil |
| LH | *Myriophyllum verrucosum* | Red Water-milfoil |
| LH | *Villarsia reniformis* | Running Marsh-flower |
| MH | *Lepilaena bilocularis* | Small-fruit Water-mat |
| MH | *Lilaeopsis polyantha* | Australian Lilaeopsis |
| MH | *Rumex bidens* | Mud Dock |
| SH | *Azolla filiculoides* | Pacific Azolla |
| SH | *Lemna disperma* | Common Duckweed |
| SH | *Mimulus repens* | Creeping Monkey-flower |
| SH | *Wolffia australiana* | Tiny Duckweed |
| LTG | *Juncus ingens* | Giant Rush |
| LTG | *Triglochin procera s.l.* | Water Ribbons |
| LNG | *Phragmites australis* | Common Reed |
| LNG | *Schoenoplectus tabernaemontani* | River Club-sedge |
| LNG | *Typha domingensis* | Narrow-leaf Cumbungi |
| LNG | *Typha orientalis* | Broad-leaf Cumbungi |
| MNG | *Eleocharis acuta* | Common Spike-sedge |
| MNG | *Lepilaena cylindrocarpa* | Long-fruit Water-mat |

###### Recruitment:

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

###### Organic Litter:

10 % cover

Ecological Vegetation Class Bioregion Benchmark

### EVC 821: Tall Marsh

###### Weediness:

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

MH MNG

*Cotula coronopifolia Paspalum distichum*

Water Buttons Water Couch

high high

high high

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

Dundas Tablelands Bioregion

EVC 842: Saline Aquatic Meadow

###### Description:

Submerged herbland of thin grass-like plants, occurring within brackish to saline waterbodies (shallow lakes and swamps and intermittent wetland ponds). The vegetation is characteristically extremely species-poor, comprising one

or more species of Lepilaena and/or Ruppia. Widespread in lowlands (within restricted habitat.

**Weediness:** There are no consistent weeds in this EVC

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

Dundas Tablelands bioregion

EVC 882: Shallow Sands Woodland

Description:

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

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

Tree Canopy Cover:

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

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

Ecological Vegetation Class bioregion benchmark

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



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

Dundas Tablelands bioregion

EVC 895: Escarpment Shrubland

###### Description:

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

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

###### Large trees+:

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

**Tree Canopy Cover:**

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

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

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

Ecological Vegetation Class bioregion benchmark

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

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