

# 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).

#### Large trees:

Species	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	70 cm	15 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus ovata</i>	Swamp Gum
	<i>Eucalyptus viminalis</i> ssp. <i>cygnetensis</i>	Rough-barked Manna-gum
	<i>Eucalyptus baxteri</i> s.s.	Brown Stringybark

#### 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

## EVC 3: Damp Sands Herb-rich Woodland - Dundas Tablelands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia mearnsii</i>	Black Wattle
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Acacia verticillata</i>	Prickly Moses
MS	<i>Leptospermum myrsinoides</i>	Heath Tea-tree
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
SS	<i>Isopogon ceratophyllus</i>	Horny Cone-bush
SS	<i>Hibbertia sericea s.l.</i>	Silky Guinea-flower
SS	<i>Astroloma conostephioides</i>	Flame Heath
SS	<i>Hibbertia fasciculata var. prostrata</i>	Bundled Guinea-flower
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Styphelia adscendens</i>	Golden Heath
LH	<i>Wahlenbergia gracilis s.s.</i>	Sprawling Bluebell
LH	<i>Senecio hispidulus</i>	Rough Fireweed
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
MH	<i>Goodenia geniculata</i>	Bent Goodenia
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Oxalis exilis</i>	Shady Wood-sorrel
LTG	<i>Xanthorrhoea minor ssp. lutea</i>	Small Grass-tree
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Dianella revoluta s.s.</i>	Black-anther Flax-lily
MTG	<i>Poa sieberiana var. sieberiana</i>	Grey Tussock-grass
MTG	<i>Austrodanthonia geniculata</i>	Kneed Wallaby-grass
MTG	<i>Lomandra juncea</i>	Desert Mat-rush
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
MNG	<i>Poa tenera</i>	Slender Tussock-grass
TTG	<i>Centrolepis strigosa ssp. strigosa</i>	Hairy Centrolepis
TTG	<i>Centrolepis aristata</i>	Pointed Centrolepis
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily
SC	<i>Comesperma volubile</i>	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	<i>Pinus radiata</i>	Radiata Pine	low	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Cicendia filiformis</i>	Slender Cicendia	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Aira caryophylla</i>	Silvery Hair-grass	high	low
MNG	<i>Bromus rubens</i>	Red Brome	high	low

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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.

#### 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

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

# 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.

#### 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

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

## 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.

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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
<b>Total understorey projective foliage cover</b>		<b>90%</b>	

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

# 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.

#### Large trees:

Species	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	70 cm	20 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus baxteri</i> s.l.	Brown Stringybark
	<i>Eucalyptus obliqua</i>	Messmate Stringybark
	<i>Eucalyptus aromaphloia</i>	Scentbark

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	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

# EVC 16: Lowland Forest - Dundas Tablelands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Acacia verniciflua</i>	Varnish Wattle
MS	<i>Correa reflexa</i>	Common Correa
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Hakea rostrata</i>	Beaked Hakea
SS	<i>Hibbertia stricta s.l.</i>	Upright Guinea-flower
SS	<i>Platylobium obtusangulum</i>	Common Flat-pea
SS	<i>Isopogon ceratophyllus</i>	Horny Cone-bush
SS	<i>Sphaerolobium vimineum s.l.</i>	Leafless Globe-pea
PS	<i>Boronia nana</i>	Dwarf Boronia
PS	r <i>Boronia nana var. pubescens</i>	Dwarf Boronia
PS	<i>Acrotriche serrulata</i>	Honey-pots
MH	<i>Helichrysum scorpioides</i>	Button Everlasting
MH	<i>Goodenia geniculata</i>	Bent Goodenia
MH	<i>Viola hederacea sensu Entwisle (1996)</i>	Ivy-leaf Violet
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
SH	<i>Drosera whittakeri ssp. aberrans</i>	Scented Sundew
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
LTG	<i>Xanthorrhoea minor ssp. lutea</i>	Small Grass-tree
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Lomandra micrantha s.l.</i>	Small-flower Mat-rush
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Lepidosperma semiteres</i>	Wire Rapier-sedge
MTG	<i>Lomandra micrantha ssp. tuberculata</i>	Small-flower Mat-rush
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
EP	<i>Cassytha pubescens s.s.</i>	Downy Dodder-laurel
SC	<i>Comesperma volubile</i>	Love Creeper

## Recruitment:

Continuous

## Organic Litter:

40 % cover

## Logs:

20 m/0.1 ha.

## Weediness:

There are no consistent weeds in this EVC.

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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.

#### Life forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	6	40%	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

#### Species typical of at least part of EVC range

#### Common Name

MS	<i>Leptospermum lanigerum</i>	Woolly Tea-tree
MS	<i>Hymenanthera dentata</i> s.l.	Tree Violet
MS	<i>Bursaria spinosa</i>	Sweet Bursaria
LH	<i>Persicaria decipiens</i>	Slender Knotweed
MH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
MH	<i>Poranthera microphylla</i>	Small Poranthera
MH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
SH	<i>Dichondra repens</i>	Kidney-weed
LTG	<i>Carex appressa</i>	Tall Sedge
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Blechnum nudum</i>	Fishbone Water-fern
SC	<i>Clematis microphylla</i>	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).

# EVC 19: Riparian Shrubland - Dundas Tablelands bioregion

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Rosa rubiginosa</i>	Sweet Briar	low	high
MS	<i>Rubus fruticosus</i> spp. agg.	Blackberry	high	high
LH	<i>Conium maculatum</i>	Hemlock	high	high
LH	<i>Conyza bonariensis</i>	Flaxleaf Fleabane	high	low
LH	<i>Carduus tenuiflorus</i>	Winged Thistle	high	high
LH	<i>Sonchus asper</i> s.l.	Rough Sow-thistle	high	low
LH	<i>Plantago lanceolata</i>	Ribwort	high	low
LH	<i>Rumex crispus</i>	Curled Dock	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	low
MH	<i>Trifolium arvense</i> var. <i>arvense</i>	Hare's-foot Clover	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MH	<i>Euphorbia peplus</i>	Petty Spurge	high	low
MH	<i>Silene gallica</i>	French Catchfly	high	low
MH	<i>Petrorhagia nanteuillii</i>	Childling Pink	high	low
MH	<i>Gamochaeta purpurea</i> s.l.	Purple Cudweed	high	low
MH	<i>Centaureum erythraea</i>	Common Centaury	high	low
SH	<i>Modiola caroliniana</i>	Red-flower Mallow	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Cyperus eragrostis</i>	Drain Flat-sedge	high	high
MTG	<i>Bromus catharticus</i>	Prairie Grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Bromus hordeaceus</i> ssp. <i>hordeaceus</i>	Soft Brome	high	low
MTG	<i>Bromus diandrus</i>	Great Brome	high	low
MNG	<i>Aira caryophylla</i>	Silvery Hair-grass	high	low
SC	<i>Vinca major</i>	Blue Periwinkle	high	high

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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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	60 cm	20 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus baxteri</i> s.l.	Brown Stringybark
	<i>Eucalyptus obliqua</i>	Messmate Stringybark

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	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



# EVC 20: Heathy Dry Forest - Dundas Tablelands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia retinodes</i>	Wirilda
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Callitris rhomboidea</i>	Oyster Bay Pine
MS	<i>Correa reflexa</i>	Common Correa
MS	<i>Acacia oxycedrus</i>	Spike Wattle
SS	<i>Brachyloma ciliatum</i>	Fringed Brachyloma
SS	<i>Calectasia intermedia</i>	Blue Tinsel-lily
SS	<i>Daviesia brevifolia</i>	Leafless Bitter-pea
SS	<i>Dillwynia sericea s.l.</i>	Showy Parrot-pea
PS	<i>Styphelia adscendens</i>	Golden Heath
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
PS	<i>Astroloma pinifolium</i>	Pine Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
MH	<i>Gonocarpus humilis</i>	Shade Raspwort
MH	<i>Viola hederacea sensu Entwisle (1996)</i>	Ivy-leaf Violet
MH	<i>Helichrysum scorpioides</i>	Button Everlasting
SH	<i>Opercularia varia</i>	Variable Stinkweed
SH	<i>Viola cleistogamoides</i>	Hidden Violet
SH	<i>Drosera whittakeri ssp. aberrans</i>	Scented Sundew
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
MTG	<i>Dianella revoluta s.l.</i>	Black-anther Flax-lily
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MNG	<i>Hypolaena fastigiata</i>	Tassel Rope-rush
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Cassytha pubescens s.s.</i>	Downy Dodder-laurel
SC	<i>Grevillea aquifolium</i>	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.

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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 Hermland.

#### Life forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	11	45%	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	Species typical of at least part of EVC range	Common Name
MS	<i>Monotoca scoparia</i>	Prickly Broom-heath
MS	<i>Correa reflexa</i>	Common Correa
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Leptospermum myrsinoides</i>	Heath Tea-tree
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
SS	<i>Hibbertia riparia</i>	Erect Guinea-flower
LH	<i>Wahlenbergia gracilis s.l.</i>	Sprawling Bluebell
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
MTG	<i>Dianella revoluta s.l.</i>	Black-anther Flax-lily
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush

#### Recruitment:

Continuous

#### Organic Litter:

40 % cover

#### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low

# 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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	60 cm	15 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus obliqua</i>	Messmate Stringybark
	<i>Eucalyptus baxteri</i> s.l.	Brown Stringybark
	<i>Eucalyptus leucoxylon</i>	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

# EVC 48: Heathy Woodland - Dundas Tablelands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia mearnsii</i>	Black Wattle
MS	<i>Brachyloma daphnoides</i>	Daphne Heath
MS	<i>Leptospermum myrsinoides</i>	Heath Tea-tree
MS	<i>Correa reflexa</i>	Common Correa
MS	<i>Banksia marginata</i>	Silver Banksia
SS	<i>Platylobium obtusangulum</i>	Common Flat-pea
SS	<i>Astroloma conostephioides</i>	Flame Heath
SS	<i>Leucopogon virgatus</i>	Common Beard-heath
SS	<i>Isopogon ceratophyllus</i>	Horny Cone-bush
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Gompholobium ecostatum</i>	Dwarf Wedge-pea
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Styphelia adscendens</i>	Golden Heath
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Brunonia australis</i>	Blue Pincushion
MH	<i>Hydrocotyle callicarpa</i>	Small Pennywort
SH	<i>Drosera glanduligera</i>	Scarlet Sundew
SH	<i>Viola cleistogamoides</i>	Hidden Violet
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG	<i>Xanthorrhoea caespitosa</i>	Tufted Grass-tree
LTG	<i>Austrostipa pubinodis</i>	Tall Spear-grass
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MTG	<i>Lomandra sororia</i>	Small Mat-rush
MTG	<i>Poa sieberiana</i> var. <i>hirtella</i>	Grey Tussock-grass
MTG	<i>Lepidosperma carphoides</i>	Black Rapier-sedge
MNG	<i>Lepidobolus drapetocoleus</i>	Scale Shedder
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Hypolaena fastigiata</i>	Tassel Rope-rush
TTG	<i>Centrolepis aristata</i>	Pointed Centrolepis
TTG	<i>Centrolepis strigosa</i> ssp. <i>strigosa</i>	Hairy Centrolepis
EP	<i>Amyema</i> spp.	Mistletoe
SC	<i>Grevillea aquifolium</i>	Variable Prickly Grevillea
SC	<i>Cassytha pubescens</i> 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	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Aira cupaniana</i>	Quicksilver Grass	high	low

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

# EVC 53: Swamp Scrub - Dundas Tablelands bioregion

## Recruitment:

Continuous

## Organic Litter:

40 % cover

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
MH	<i>Centaurium erythraea</i>	Common Centaury	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high

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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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	80 cm	15 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus camaldulensis</i>	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

# EVC 55: Plains Grassy Woodland - Dundas Tablelands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Pimelea curviflora s.l.</i>	Curved Rice-flower
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
MH	<i>Hypericum gramineum</i>	Small St John's Wort
MH	<i>Drosera peltata ssp. peltata</i>	Pale Sundew
MH	<i>Acaena echinata</i>	Sheep's Burr
MH	<i>Leptorhynchus squamatus</i>	Scaly Buttons
SH	<i>Drosera whittakeri ssp. aberrans</i>	Scented Sundew
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Solenogyne dominii</i>	Smooth Solenogyne
LTG	<i>Austrostipa pubinodis</i>	Tall Spear-grass
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Tricoryne elatior</i>	Yellow Rush-lily
MTG	<i>Caesia calliantha</i>	Blue Grass-lily
MNG	<i>Microtis unifolia</i>	Common Onion-orchid
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
TTG	<i>Centrolepis aristata</i>	Pointed Centrolepis
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily
SC	<i>Convolvulus erubescens spp. agg.</i>	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	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Trifolium campestre var. campestre</i>	Hop Clover	high	low
MH	<i>Trifolium subterraneum</i>	Subterranean Clover	high	low
MH	<i>Centaurea erythraea</i>	Common Centaury	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Trifolium dubium</i>	Suckling Clover	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Cynosurus echinatus</i>	Rough Dog's-tail	high	low
MNG	<i>Aira spp.</i>	Hair Grass	high	low
TTG	<i>Cyperus tenellus</i>	Tiny Flat-sedge	high	low

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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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	80 cm	15 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus camaldulensis</i>	River Red-gum
	<i>Eucalyptus ovata</i>	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



# EVC 56: Floodplain Riparian Woodland - Dundas Tablelands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Bursaria spinosa</i> ssp. <i>spinosa</i>	Sweet Bursaria
MS	<i>Acacia pycnantha</i>	Golden Wattle
MS	<i>Myoporum</i> sp. 1	Sticky Boobialla
LH	<i>Senecio glomeratus</i>	Annual Fireweed
MH	<i>Rumex brownii</i>	Slender Dock
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Crassula helmsii</i>	Swamp Crassula
SH	<i>Selliera radicans</i>	Shiny Swamp-mat
SH	<i>Hydrocotyle sibthorpioides</i>	Shining Pennywort
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Gahnia filum</i>	Chaffy Saw-sedge
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
LTG	<i>Juncus kraussii</i> ssp. <i>australiensis</i>	Sea Rush
LNG	<i>Phragmites australis</i>	Common Reed
MTG	<i>Lachnagrostis filiformis</i>	Common Blown-grass
MTG	<i>Austrodanthonia penicillata</i>	Slender Wallaby-grass
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MTG	<i>Bulbine bulbosa</i>	Bulbine Lily
MNG	<i>Triglochin striatum</i>	Streaked Arrowgrass
MNG	<i>Schoenus nitens</i>	Shiny Bog-sedge
MNG	<i>Distichlis distichophylla</i>	Australian Salt-grass
EP	<i>Muellerina eucalyptoides</i>	Creeping Mistletoe
SC	<i>Cassytha melantha</i>	Coarse Dodder-laurel
SC	<i>Calystegia sepium</i>	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	<i>Rosa rubiginosa</i>	Sweet Briar	high	high
LH	<i>Rumex conglomeratus</i>	Clustered Dock	high	high
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Rumex crispus</i>	Curled Dock	high	high
LH	<i>Helminthotheca echinoides</i>	Ox-tongue	high	low
LH	<i>Aster subulatus</i>	Aster-weed	high	low
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
LH	<i>Sonchus asper</i> s.l.	Rough Sow-thistle	high	low
LH	<i>Plantago lanceolata</i>	Ribwort	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Plantago major</i>	Greater Plantain	high	low
MH	<i>Brassica fruticulosa</i>	Twiggy Turnip	high	high
MH	<i>Atriplex prostrata</i>	Hastate Orache	high	high
LTG	<i>Phalaris aquatica</i>	Toowoomba Canary-grass	high	high
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Cyperus eragrostis</i>	Drain Flat-sedge	high	high
MTG	<i>Bromus catharticus</i>	Prairie Grass	high	low
MTG	<i>Lolium perenne</i>	Perennial Rye-grass	high	high
MNG	<i>Paspalum distichum</i>	Water Couch	high	high

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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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	70 cm	10 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
10%	<i>Eucalyptus melliodora</i>	Yellow Box

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	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
<b>Total understorey projective foliage cover</b>		<b>85%</b>	

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

# 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	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Cicendia filiformis</i>	Slender Cicendia	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MH	<i>Parentucellia latifolia</i>	Red Bartsia	high	low
MH	<i>Trifolium dubium</i>	Suckling Clover	high	low
MH	<i>Moenchia erecta</i>	Erect Chickweed	high	low
MH	<i>Cerastium glomeratum s.l.</i>	Common Mouse-ear Chickweed	high	low
MH	<i>Sherardia arvensis</i>	Field Madder	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
TTG	<i>Cyperus tenellus</i>	Tiny Flat-sedge	high	low
TTG	<i>Isolepis hystrix</i>	Awned Club-sedge	high	low

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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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	80 cm	15 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus camaldulensis</i>	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

#### Species typical of at least part of EVC range

#### Common Name

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

# 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	<i>Salix fragilis</i>	Crack Willow	high	high
MS	<i>Lycium ferocissimum</i>	African Box-thorn	low	high
MS	<i>Genista monspessulana</i>	Montpellier Broom	high	high
MS	<i>Rosa rubiginosa</i>	Sweet Briar	low	high
MS	<i>Rubus sp. aff. armeniacus</i>	Blackberry	high	high
LH	<i>Plantago lanceolata</i>	Ribwort	high	low
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Hirschfeldia incana</i>	Buchan Weed	high	high
LH	<i>Verbena bonariensis s.l.</i>	Purple-top Verbena	high	high
LH	<i>Rumex crispus</i>	Curled Dock	high	high
LH	<i>Rumex conglomeratus</i>	Clustered Dock	high	high
LH	<i>Conium maculatum</i>	Hemlock	high	high
LH	<i>Helminthotheca echioides</i>	Ox-tongue	high	low
LH	<i>Aster subulatus</i>	Aster-weed	high	low
LH	<i>Sonchus asper s.l.</i>	Rough Sow-thistle	high	low
LH	<i>Solanum nigrum sensu Willis (1972)</i>	Black Nightshade	high	high
MH	<i>Brassica fruticulosa</i>	Twiggy Turnip	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Foeniculum vulgare</i>	Fennel	high	high
SH	<i>Modiola caroliniana</i>	Red-flower Mallow	high	low
LTG	<i>Phalaris aquatica</i>	Toowoomba Canary-grass	high	high
LTG	<i>Piptatherum miliaceum</i>	Rice Millet	high	high
MTG	<i>Ehrharta erecta var. erecta</i>	Panic Veldt-grass	high	high
MTG	<i>Paspalum dilatatum</i>	Paspalum	high	high
MTG	<i>Bromus catharticus</i>	Prairie Grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Bromus diandrus</i>	Great Brome	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Agrostis capillaris s.l.</i>	Brown-top Bent	high	high
MNG	<i>Dactylis glomerata</i>	Cocksfoot	high	high
MNG	<i>Paspalum distichum</i>	Water Couch	high	high
SC	<i>Tradescantia fluminensis</i>	Wandering Jew	high	high

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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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	70 cm	15 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus melliodora</i>	Yellow Box
	<i>Eucalyptus camaldulensis</i>	River Red-gum

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	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

# EVC 71: Hills Herb-rich Woodland - Dundas Tablelands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
SS	<i>Pimelea humilis</i>	Common Rice-flower
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Podolepis jaceoides s.l.</i>	Showy/Basalt Podolepis
MH	<i>Pelargonium rodneyanum</i>	Magenta Stork's-bill
MH	<i>Goodenia geniculata</i>	Bent Goodenia
MH	<i>Hypericum gramineum</i>	Small St John's Wort
MH	<i>Poranthera microphylla</i>	Small Poranthera
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Drosera glanduligera</i>	Scarlet Sundew
SH	<i>Solenogyne dominii</i>	Smooth Solenogyne
SH	<i>Siloxerus multiflorus</i>	Small Wrinklewort
LTG	<i>Austrostipa nodosa</i>	Knotty Spear-grass
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
MTG	<i>Neurachne alopecuroides</i>	Fox-tail Mulga-grass
MTG	<i>Pentapogon quadrifidus</i>	Five-awned Spear-grass
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Lomandra nana</i>	Dwarf Mat-rush
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
MNG	<i>Triglochin nanum</i>	Dwarf Arrowgrass
MNG	<i>Microtis unifolia</i>	Common Onion-orchid
TTG	<i>Centrolepis strigosa ssp. strigosa</i>	Hairy Centrolepis
TTG	<i>Centrolepis aristata</i>	Pointed Centrolepis
TTG	<i>Aphelia pumilio</i>	Dwarf Aphelia
SC	<i>Thysanotus patersonii</i>	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	<i>Centaurea tenuiflorum</i>	Slender Centaury	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Parentucellia latifolia</i>	Red Bartsia	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MH	<i>Trifolium campestre var. campestre</i>	Hop Clover	high	low
MH	<i>Galium divaricatum</i>	Slender Bedstraw	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Aira cupaniana</i>	Quicksilver Grass	high	low
MNG	<i>Vulpia myuros</i>	Rat's-tail Fescue	high	low
TTG	<i>Cyperus tenellus</i>	Tiny Flat-sedge	high	low

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

#### Recruitment:

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

#### Organic Litter:

10% cover

# 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	<i>Marrubium vulgare</i>	Horehound	high	high
LH	<i>Parentucellia viscosa</i>	Yellow Bartsia	high	low
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	low
MH	<i>Trifolium dubium</i>	Suckling Clover	high	low
MH	<i>Leontodon taraxacoides ssp. taraxacoides</i>	Hairy Hawkbit	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Trifolium campestre var. campestre</i>	Hop Clover	high	low
MH	<i>Mentha pulegium</i>	Pennyroyal	high	high
MH	<i>Cicendia filiformis</i>	Slender Cicendia	high	low
MH	<i>Cotula coronopifolia</i>	Water Buttons	high	high
MH	<i>Cicendia quadrangularis</i>	Square Cicendia	high	low
MH	<i>Trifolium subterraneum</i>	Subterranean Clover	high	low
MH	<i>Trifolium scabrum</i>	Rough Clover	high	low
MH	<i>Arctotheca calendula</i>	Cape Weed	high	low
LTG	<i>Phalaris aquatica</i>	Toowoomba Canary-grass	high	high
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Lolium perenne</i>	Perennial Rye-grass	high	high
MTG	<i>Critesion maritimum</i>	Sea Barley-grass	high	low
MTG	<i>Poa annua</i>	Annual Meadow-grass	high	low
MTG	<i>Bromus hordeaceus ssp. hordeaceus</i>	Soft Brome	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low
TTG	<i>Cyperus tenellus</i>	Tiny Flat-sedge	high	low
TTG	<i>Isolepis hystrix</i>	Awned Club-sedge	high	low

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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	<i>Pimelea humilis</i>	Common Rice-flower
LH	<i>Eryngium ovium</i>	Blue Devil
LH	<i>Senecio quadridentatus</i>	Cottony Fireweed
MH	<i>Calocephalus citreus</i>	Lemon Beauty-heads
MH	<i>Acaena echinata</i>	Sheep's Burr
MH	<i>Leptorhynchus squamatus</i>	Scaly Buttons
MH	<i>Geranium retrorsum</i> s.l.	Grassland Crane's-bill
SH	<i>Solenogyne dominii</i>	Smooth Solenogyne
SH	<i>Lobelia pratioides</i>	Poison Lobelia
LTG	<i>Austrostipa bigeniculata</i>	Kneed Spear-grass
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Austrodanthonia caespitosa</i>	Common Wallaby-grass
MTG	<i>Elymus scaber</i> var. <i>scaber</i>	Common Wheat-grass
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass

#### Recruitment:

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

#### Organic Litter:

10% cover



# EVC 132: Plains Grassland – Dundas Tablelands bioregion

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Plantago lanceolata</i>	Ribwort	high	low
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
MH	<i>Trifolium subterraneum</i>	Subterranean Clover	high	low
MH	<i>Plantago coronopus</i>	Buck's-horn Plantain	high	low
MH	<i>Trifolium striatum</i>	Knotted Clover	high	low
MH	<i>Trifolium dubium</i>	Suckling Clover	high	low
LTG	<i>Phalaris aquatica</i>	Toowoomba Canary-grass	high	high
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Bromus hordeaceus</i> ssp. <i>hordeaceus</i>	Soft Brome	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Lolium rigidum</i>	Wimmera Rye-grass	high	low
MTG	<i>Lolium perenne</i>	Perennial Rye-grass	high	low
MTG	<i>Nassella neesiana</i>	Chilean Needle-grass	high	high
MNG	<i>Cynosurus echinatus</i>	Rough Dog's-tail	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low

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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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	70 cm	15 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus viminalis</i> ssp. <i>cygnetensis</i>	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	Species typical of at least part of EVC range	Common Name
T	<i>Acacia mearnsii</i>	Black Wattle
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Brachyloma daphnoides</i>	Daphne Heath
MS	<i>Acacia paradoxa</i>	Hedge Wattle
SS	<i>Astroloma conostephioides</i>	Flame Heath
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
PS	<i>Astroloma humifusum</i>	Cranberry Heath
MH	<i>Goodenia geniculata</i>	Bent Goodenia
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Austrodanthonia geniculata</i>	Knead Wallaby-grass
MTG	<i>Lomandra nana</i>	Dwarf Mat-rush
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken

#### Recruitment:

Continuous

#### Organic Litter:

40 % cover

#### Logs:

15 m/0.1 ha.

# EVC 134: Sand Forest – Dundas Tablelands bioregion

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MNG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MNG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MNG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Holcus setosus</i>	Annual Fog	high	low
MNG	<i>Aira praecox</i>	Early Hair-grass	high	low

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

# 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	<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Cotula coronopifolia</i>	Water Buttons	high	high
MTG	<i>Critesion hystrix</i>	Mediterranean Barley-grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Lolium perenne</i>	Perennial Rye-grass	high	high
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MNG	<i>Holcus setosus</i>	Annual Fog	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
TTG	<i>Isolepis hystrix</i>	Awned Club-sedge	high	low
TTG	<i>Cyperus tenellus</i>	Tiny Flat-sedge	high	low

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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
<i>Eucalyptus</i> spp.	70 cm	15 / ha
<i>Allocasuarina</i> spp.	40 cm	

#### Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus ovata</i>	Swamp Gum
	<i>Eucalyptus viminalis</i>	Manna Gum
	<i>Allocasuarina verticillata</i>	Drooping Sheoak

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	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

#### Species typical of at least part of EVC range

#### Common Name

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

# 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	<i>Lycium ferocissimum</i>	African Box-thorn	low	high
MH	<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Arctotheca calendula</i>	Cape Weed	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Ehrharta erecta</i> var. <i>erecta</i>	Panic Veldt-grass	high	high
MTG	<i>Ehrharta longiflora</i>	Annual Veldt-grass	high	low
MTG	<i>Nassella neesiana</i>	Chilean Needle-grass	high	high
MTG	<i>Nassella trichotoma</i>	Serrated Tussock	high	high

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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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	70 cm	15 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus baxteri</i> s.s.	Brown Stringybark
	<i>Eucalyptus viminalis</i> ssp. <i>cygnetensis</i>	Rough-barked Manna-gum

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	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

# EVC 179: Heathy Herb-rich Woodland - Dundas Tablelands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Acacia mearnsii</i>	Black Wattle
MS	<i>Leptospermum myrsinoides</i>	Heath Tea-tree
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Banksia marginata</i>	Silver Banksia
SS	<i>Hibbertia sericea</i> s.l.	Silky Guinea-flower
SS	<i>Hibbertia fasciculata</i> var. <i>prostrata</i>	Bundled Guinea-flower
SS	<i>Astroloma conostephioides</i>	Flame Heath
SS	<i>Tetratheca ciliata</i>	Pink-bells
PS	<i>Styphelia adscendens</i>	Golden Heath
PS	r <i>Boronia nana</i> var. <i>nana</i>	Dwarf Boronia
PS	<i>Boronia nana</i>	Dwarf Boronia
PS	<i>Gompholobium ecostatum</i>	Dwarf Wedge-pea
LH	<i>Dipodium roseum</i> s.s.	Rosy Hyacinth-orchid
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
MH	<i>Goodenia geniculata</i>	Bent Goodenia
MH	<i>Helichrysum scorpioides</i>	Button Everlasting
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
LTG	r <i>Xanthorrhoea caespitosa</i>	Tufted Grass-tree
LTG	<i>Xanthorrhoea minor</i> ssp. <i>lutea</i>	Small Grass-tree
MTG	<i>Lomandra nana</i>	Dwarf Mat-rush
MTG	<i>Dichelachne crinita</i>	Long-hair Plume-grass
MTG	<i>Lomandra micrantha</i> s.l.	Small-flower Mat-rush
MNG	<i>Hypolaena fastigiata</i>	Tassel Rope-rush
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Lepidobolus drapetocoleus</i>	Scale Shedder
TTG	<i>Centrolepis strigosa</i> ssp. <i>strigosa</i>	Hairy Centrolepis
TTG	<i>Schoenus breviculmis</i>	Matted Bog-sedge
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Cassytha pubescens</i> s.s.	Downy Dodder-laurel
SC	<i>Cassytha glabella</i>	Slender Dodder-laurel
EP	<i>Amyema pendula</i>	Drooping Mistletoe
SC	<i>Hardenbergia violacea</i>	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	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Bromus diandrus</i>	Great Brome	high	low
MNG	<i>Aira cupaniana</i>	Quicksilver Grass	high	low
MNG	<i>Cynosurus echinatus</i>	Rough Dog's-tail	high	low
MNG	<i>Aira</i> spp.	Hair Grass	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
Und	<i>Vulpia</i> spp.	Fescue	high	low

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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%	<i>Leptospermum lanigerum</i>	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

#### Species typical of at least part of EVC range

#### Common Name

MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Bursaria spinosa ssp. spinosa</i>	Sweet Bursaria
MH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
SH	<i>Oxalis exilis</i>	Shady Wood-sorrel
SH	<i>Crassula helmsii</i>	Swamp Crassula
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
LTG	<i>Carex tereticaulis</i>	Hollow Sedge
LTG	<i>Carex appressa</i>	Tall Sedge
LNG	<i>Phragmites australis</i>	Common Reed
MTG	<i>Triglochin procerum s.l.</i>	Water Ribbons
MNG	<i>Triglochin striatum</i>	Streaked Arrowgrass
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass

#### Recruitment:

Continuous

#### Organic Litter:

40% cover



# EVC 191: Riparian Scrub - Dundas Tablelands Plain bioregion

## Weediness:

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

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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
<b>Total understorey projective foliage cover</b>		<b>80%</b>	

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

#### Recruitment:

Continuous

#### Organic Litter:

10% cover

#### Weediness:

There are no consistent weeds in this EVC.

# 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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	70 cm	15 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus leucoxylon</i>	Yellow Gum
	<i>Eucalyptus viminalis</i> ssp. <i>cygnetensis</i>	Manna Gum
	<i>Eucalyptus ovata</i>	Swamp Gum

#### Understorey:

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

#### LF Code

#### Species typical of at least part of EVC range

#### Common Name

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

# 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	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low

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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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	70 cm	15 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus obliqua</i>	Messmate Stringybark
	<i>Eucalyptus ovata</i>	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

#### Species typical of at least part of EVC range

#### Common Name

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

# 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	<i>Rubus ulmifolius</i>	Blackberry	high	high
LH	<i>Rumex crispus</i>	Curled Dock	high	low
MH	<i>Batrachium trichophyllum</i>	Water Fennel	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Centaureum erythraea</i>	Common Centaury	high	low
SH	<i>Callitriche stagnalis</i>	Common Starwort	high	high
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Juncus bulbosus</i>	Bulbous Rush	high	high

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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	#Spp	%Cover	LF code
Medium Shrub	8	50%	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
<b>Total understorey projective foliage cover</b>		<b>70%</b>	

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

# 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	<i>Hypochaeris glabra</i>	Smooth Cat's-ear	high	low

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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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	80 cm	10 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
10%	<i>Eucalyptus camaldulensis</i>	River Red Gum
	<i>Eucalyptus leucoxylon</i>	Yellow Gum
	<i>Eucalyptus ovata</i>	Swamp Gum
	<i>Eucalyptus viminalis</i>	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

#### Species typical of at least part of EVC range

#### Common Name

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



# 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.

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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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	70 cm	15 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus obliqua</i>	Messmate Stringybark
	<i>Eucalyptus camaldulensis</i>	River Red-gum

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	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

# EVC 282: Shrubby Woodland - Dundas Tablelands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia mearnsii</i>	Black Wattle
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Leptospermum scoparium</i>	Manuka
MS	<i>Hakea nodosa</i>	Yellow Hakea
SS	<i>Hibbertia riparia</i>	Erect Guinea-flower
SS	r <i>Hibbertia cistiflora ssp. rostrata</i>	Rock Rose Guinea-flower
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
MH	<i>Hypericum gramineum</i>	Small St John's Wort
MH	<i>Euchiton collinus s.s.</i>	Creeping Cudweed
SH	r <i>Asperula minima</i>	Mossy Woodruff
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Lomandra sororia</i>	Small Mat-rush
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MTG	<i>Lomandra multiflora ssp. multiflora</i>	Many-flowered Mat-rush
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
MNG	<i>Leptocarpus tenax</i>	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	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Cerastium glomeratum s.l.</i>	Common Mouse-ear Chickweed	high	low
MH	<i>Galium murale</i>	Small Goosegrass	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low

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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
<i>Eucalyptus</i> spp.	70 cm	15 / ha
<i>Allocasuarina luehmannii</i>	40 cm	

#### Tree Canopy Cover:

%cover	Character Species	Common Name
10%	<i>Eucalyptus leucoxylon</i>	Yellow Gum
	<i>Eucalyptus camaldulensis</i>	River Red-gum
	<i>Eucalyptus melliodora</i>	Yellow Box
	<i>Allocasuarina luehmannii</i>	Buloke

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	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

# EVC 283: Plains Sedgy Woodland - Dundas Tablelands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Hakea rugosa</i>	Dwarf Hakea
MS	v <i>Comesperma polygaloides</i>	Small Milkwort
SS	<i>Eutaxia microphylla</i>	Common Eutaxia
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Eryngium ovinum</i>	Blue Devil
LH	<i>Brachyscome cardiocarpa</i>	Swamp Daisy
LH	<i>Villarsia reniformis</i>	Running Marsh-flower
MH	<i>Utricularia dichotoma s.l.</i>	Fairies' Aprons
MH	<i>Drosera peltata ssp. peltata</i>	Pale Sundew
SH	<i>Solenogyne dominii</i>	Smooth Solenogyne
SH	<i>Myriocephalus rhizocephalus</i>	Woolly-heads
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG	<i>Amphibromus nervosus</i>	Common Swamp Wallaby-grass
LNG	<i>Baumea rubiginosa s.l.</i>	Soft Twig-rush
MTG	<i>Lepidosperma congestum</i>	Clustered Sword-sedge
MTG	<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass
MTG	<i>Lachnagrostis filiformis var. filiformis</i>	Common Blown-grass
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MNG	<i>Chorizandra enodis</i>	Black Bristle-sedge
MNG	<i>Eleocharis acuta</i>	Common Spike-sedge
TTG	<i>Centrolepis aristata</i>	Pointed Centrolepis
TTG	<i>Centrolepis strigosa ssp. strigosa</i>	Hairy Centrolepis
TTG	<i>Centrolepis glabra</i>	Smooth Centrolepis
TTG	<i>Aphelia gracilis</i>	Slender Aphelia
SC	<i>Thysanotus patersonii</i>	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	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Cicendia filiformis</i>	Slender Cicendia	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low
TTG	<i>Cyperus tenellus</i>	Tiny Flat-sedge	high	low
TTG	<i>Isolepis hystrix</i>	Awned Club-sedge	high	low

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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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	70 cm	15 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus obliqua</i>	Messmate Stringybark
	<i>Eucalyptus goniocalyx</i> s.l.	Bundy
	<i>Eucalyptus viminalis</i> ssp. <i>cygnetensis</i>	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	Species typical of at least part of EVC range	Common Name
MS	<i>Melaleuca decussata</i>	Totem Poles
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Dodonaea viscosa</i>	Sticky Hop-bush
MS	<i>Calytrix tetragona</i>	Common Fringe-myrtle
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
MH	<i>Viola hederacea</i> sensu Entwisle (1996)	Ivy-leaf Violet
MH	<i>Gonocarpus elatus</i>	Tall Raspwort
MH	<i>Gonocarpus tetragynus</i>	Rough Raspwort
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Hydrocotyle callicarpa</i>	Small Pennywort
SH	<i>Goodenia humilis</i>	Swamp Goodenia
LTG	<i>Juncus pallidus</i>	Pale Rush
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Poa morrisii</i>	Soft Tussock-grass
MTG	<i>Juncus planifolius</i>	Broad-leaf Rush
MTG	<i>Juncus pauciflorus</i>	Loose-flower Rush
MNG	<i>Poa tenera</i>	Slender Tussock-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
TTG	<i>Centrolepis strigosa</i> ssp. <i>strigosa</i>	Hairy Centrolepis
TTG	<i>Centrolepis aristata</i>	Pointed Centrolepis

# EVC 285: Dry Creekline Woodland - Dundas Tablelands bioregion

**Recruitment:**  
Continuous

**Organic Litter:**  
20 % cover

**Logs:**  
20 m/0.1 ha.

<b>Weediness:</b>				
<b>LF Code</b>	<b>Typical Weed Species</b>	<b>Common Name</b>	<b>Invasive</b>	<b>Impact</b>
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low

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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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	80 cm	10 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus camaldulensis</i>	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
<b>Total understorey projective foliage cover</b>		<b>90%</b>	

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

# EVC 292: Red Gum Swamp - Dundas Tablelands bioregion

## Recruitment:

Episodic/Flood – desirable 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	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MNG	<i>Briza minor</i>	Lesser Quaking-grass	high	low

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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	#Spp	%Cover	LF code
Large Herb	3	10%	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
<b>Total understorey projective foliage cover</b>		<b>70%</b>	

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



# 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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	80 cm	15 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus camaldulensis</i>	River Red Gum
	<i>Eucalyptus microcarpa</i>	Grey Box

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	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
<b>Total understorey projective foliage cover</b>		<b>80%</b>	

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

#### Recruitment:

Continuous

#### Organic Litter:

40% cover

#### Logs:

20m/0.1 ha

# EVC 640: Creekline Sedgy Woodland – Dundas Tablelands bioregion

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	low
LH	<i>Plantago lanceolata</i>	Ribwort	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
LTG	<i>Phalaris aquatica</i>	Toowoomba Canary-grass	high	high
MNG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MNG	<i>Romulea rosea</i>	Onion Grass	high	low
MNG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MNG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low

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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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	80 cm	15 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus camaldulensis</i>	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

#### Species typical of at least part of EVC range

#### Common Name

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

# 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	<i>Rosa rubiginosa</i>	Sweet Briar	high	high
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
LH	<i>Plantago lanceolata</i>	Ribwort	high	low
LH	<i>Helminthotheca echioides</i>	Ox-tongue	high	low
LH	<i>Rumex crispus</i>	Curled Dock	high	high
LH	<i>Aster subulatus</i>	Aster-weed	high	low
LH	<i>Rorippa palustris</i>	Marsh Yellow-cress	high	high
MH	<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
LTG	<i>Phalaris aquatica</i>	Toowoomba Canary-grass	high	high
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Bromus hordeaceus</i> ssp. <i>hordeaceus</i>	Soft Brome	high	low
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high
MNG	<i>Paspalum distichum</i>	Water Couch	high	high
SC	<i>Galium aparine</i>	Cleavers	high	low

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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
<b>Total understorey projective foliage cover</b>		<b>70%</b>	

LF Code	Species typical of at least part of EVC range	Common Name
LH	<i>Villarsia reniformis</i>	Running Marsh-flower
LH	<i>Epilobium billardierianum</i> ssp. <i>cinereum</i>	Grey Willow-herb
LH	<i>Epilobium billardierianum</i>	Variable Willow-herb
MH	<i>Potamogeton tricarlinatus</i> s.l.	Floating Pondweed
MH	<i>Lilaeopsis polyantha</i>	Australian Lilaeopsis
MH	<i>Myriophyllum simulans</i>	Amphibious Water-milfoil
MH	<i>Utricularia dichotoma</i> s.l.	Fairies' Aprons
SH	<i>Lobelia pratioides</i>	Poison Lobelia
SH	<i>Neopaxia australasica</i>	White Purslane
LTG	<i>Amphibromus nervosus</i>	Common Swamp Wallaby-grass
LNG	<i>Baumea rubiginosa</i> s.l.	Soft Twig-rush
MTG	<i>Isolepis fluitans</i>	Floating Club-sedge
MTG	<i>Lachnagrostis filiformis</i>	Common Blown-grass
MTG	k <i>Lachnagrostis filiformis</i> (perennial variety)	Wetland Blown-grass
MTG	<i>Juncus holoschoenus</i>	Joint-leaf Rush
MNG	v <i>Amphibromus sinuatus</i>	Wavy Swamp Wallaby-grass
MNG	<i>Schoenus fluitans</i>	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.

# 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	#Spp	%Cover	LF Code
Medium Shrub	3	10%	MS
Prostrate Shrub	1	1%	PS
Large Herb	2	1%	LH
Medium Herb	11	10%	MH
Small or Prostrate Herb	4	5%	SH
Medium to Small Tufted Graminoid	10	25%	MTG
Medium to Tiny Non-Tufted Graminoid	2	5%	MNG
Tiny Tufted Graminoid	2	5%	TTG
Ground Fern	2	5%	GF
Scrambler or Climber	1	0%	SC
Bryophytes/Lichens		10%	BL
Soil Crust		10%	S/C

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

# EVC 649: Stony Knoll Shrubland

## Recruitment:

Continuous.

## Organic Litter:

20 % cover

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Genista monspessulana</i>	Montpellier Broom	high	high
LH	<i>Echium plantagineum</i>	Paterson's Curse	high	high
LH	<i>Foeniculum vulgare</i>	Fennel	high	high
LTG	<i>Phalaris aquatica</i>	Toowoomba Canary-grass	high	high
MTG	<i>Nassella trichotoma</i>	Serrated Tussock	high	high
MTG	<i>Dactylis glomerata</i>	Cocksfoot	high	high
MTG	<i>Sporobolus africanus</i>	Rat-tail Grass	high	high
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
SH	<i>Aptenia cordifolia</i>	Heart-leaf Ice-plant	high	high
T	<i>Schinus molle</i>	Pepper Tree	high	high
LH	<i>Verbascum thapsus subsp. thapsus</i>	Great Mullein	high	high
SS	<i>Marrubium vulgare</i>	Horehound	high	high
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
MH	<i>Trifolium subterraneum</i>	Subterranean Clover	high	low
MTG	<i>Ehrharta longiflora</i>	Annual Veldt-grass	high	low
LNG	<i>Avena fatua</i>	Wild Oat	high	low
SH	<i>Modiola caroliniana</i>	Red-flower Mallow	high	low
SH	<i>Trifolium glomeratum</i>	Cluster Clover	high	low
SH	<i>Medicago polymorpha</i>	Burr Medic	high	low
MH	<i>Cerastium glomeratum s.l.</i>	Common Mouse-ear Chickweed	high	low
MH	<i>Lotus subbiflorus</i>	Hairy Bird's-foot Trefoil	high	low
MH	<i>Trifolium angustifolium var. angustifolium</i>	Narrow-leaf Clover	high	low
MH	<i>Trifolium campestre var. campestre</i>	Hop Clover	high	low
MTG	<i>Aira caryophylla</i>	Silvery Hair-grass	high	low
MTG	<i>Avena barbata</i>	Bearded Oat	high	low
MTG	<i>Bromus rubens</i>	Red Brome	high	low
MTG	<i>Vulpia myuros</i>	Rat's-tail Fescue	high	low
MTG	<i>Lolium perenne</i>	Perennial Rye-grass	high	low
MTG	<i>Pentaschistis airoides subsp. airoides</i>	False Hair-grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Bromus hordeaceus subsp. hordeaceus</i>	Soft Brome	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MH	<i>Trifolium arvense var. arvense</i>	Hare's-foot Clover	high	low
LH	<i>Helminthotheca echioides</i>	Ox-tongue	high	low
LH	<i>Lactuca serriola</i>	Prickly Lettuce	high	low
LH	<i>Centaureum tenuiflorum</i>	Slender Centaury	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
LH	<i>Sisymbrium officinale</i>	Hedge Mustard	high	low
LH	<i>Sonchus asper s.l.</i>	Rough Sow-thistle	high	low
SC	<i>Vicia sativa subsp. sativa</i>	Common Vetch	low	low
MS	<i>Lycium ferocissimum</i>	African Box-thorn	high	high

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# 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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	80 cm	10 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
10%	<i>Eucalyptus ovata</i>	Swamp Gum

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	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

#### Species typical of at least part of EVC range

#### Common Name

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



# 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	<i>Plantago lanceolata</i>	Ribwort	high	low
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Sonchus asper</i> s.l.	Rough Sow-thistle	high	low
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
MH	<i>Trifolium dubium</i>	Suckling Clover	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	low
MH	<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
LTG	<i>Festuca arundinacea</i>	Tall Fescue	high	high
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high
MNG	<i>Holcus setosus</i>	Annual Fog	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low
TTG	<i>Cyperus tenellus</i>	Tiny Flat-sedge	high	low

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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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	80 cm	8 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
10%	<i>Eucalyptus camaldulensis</i>	River Red Gum
	<i>Eucalyptus melliodora</i>	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

#### Species typical of at least part of EVC range

#### Common Name

MS	<i>Acacia pycnantha</i>	Golden Wattle
MS	<i>Acacia paradoxa</i>	Hedge Wattle
SS	<i>Pimelea humilis</i>	Common Rice-flower
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
MH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Acaena echinata</i>	Sheep's Burr
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
LTG	<i>Austrostipa bigeniculata</i>	Knead Spear-grass
MTG	<i>Elymus scaber</i> var. <i>scaber</i>	Common Wheat-grass
MTG	<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass
MTG	<i>Austrodanthonia racemosa</i> var. <i>racemosa</i>	Stiped Wallaby-grass
MTG	<i>Tricoryne elatior</i>	Yellow Rush-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass

# 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	<i>Lycium ferocissimum</i>	African Box-thorn	low	high
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Plantago lanceolata</i>	Ribwort	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low

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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
<b>Total understorey projective foliage cover</b>		<b>90%</b>	

LF Code	Species typical of at least part of EVC range	Common Name
LH	<i>Villarsia reniformis</i>	Running Marsh-flower
MH	<i>Myriophyllum simulans</i>	Amphibious Water-milfoil
MH	<i>Potamogeton tricarlinatus s.l.</i>	Floating Pondweed
MH	<i>Potamogeton pectinatus</i>	Fennel Pondweed
MH	<i>Marsilea drummondii</i>	Common Nardoo
SH	<i>Azolla filiculoides</i>	Pacific Azolla
SH	<i>Lobelia pratensis</i>	Poison Lobelia
SH	<i>Lemna disperma</i>	Duckweed
LNG	<i>Eleocharis sphacelata</i>	Tall Spike-sedge
MTG	<i>Triglochin procerum s.l.</i>	Water Ribbons
MTG	<i>Lachnagrostis filiformis</i>	Common Blown-grass
MTG	<i>Glyceria australis</i>	Australian Sweet-grass
MTG	<i>Austrodanthonia duttoniana</i>	Brown-back Wallaby-grass
MNG	<i>Eleocharis pusilla</i>	Small Spike-sedge
MNG	<i>Eleocharis acuta</i>	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	<i>Aster subulatus</i>	Aster-weed	high	low
LH	<i>Rumex crispus</i>	Curled Dock	high	high
MH	<i>Plantago coronopus</i>	Buck's-horn Plantain	high	high
MH	<i>Cotula coronopifolia</i>	Water Buttons	high	high
MTG	<i>Lolium rigidum</i>	Wimmera Rye-grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low

# 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	#Spp	%Cover	LF code
Large Herb	4	5%	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

#### Species typical of at least part of EVC range

#### Common Name

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

#### Recruitment:

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

#### Organic Litter:

10% Cover

# EVC 654: Creekline Tussock Grassland - Dundas Tablelands bioregion

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Rumex crispus</i>	Curled Dock	high	low
MH	<i>Lotus suaveolens</i>	Hairy Bird's-foot Trefoil	high	high
MH	<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Phalaris aquatica</i>	Toowoomba Canary-grass	high	high
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high
MNG	<i>Paspalum distichum</i>	Water Couch	high	high
MNG	<i>Agrostis capillaris</i>	Brown-top Bent	high	high

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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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	70 cm	15 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus ovata</i>	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.

# EVC 673: Dune Soak Woodland – Dundas Tablelands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Hakea rugosa</i>	Dwarf Hakea
MS	<i>Acacia verticillata</i>	Prickly Moses
MS	<i>Brachyloma daphnoides</i>	Daphne Heath
SS	<i>Astroloma conostephioides</i>	Flame Heath
SS	<i>Leucopogon virgatus</i> var. <i>virgatus</i>	Common Beard-heath
SS	<i>Pultenaea laxiflora</i>	Loose-flower Bush-pea
SS	<i>Daviesia brevifolia</i>	Leafless Bitter-pea
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Senecio hispidulus</i>	Rough Fireweed
MH	<i>Drosera peltata</i> ssp. <i>peltata</i>	Pale Sundew
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
LNG	<i>Lepidosperma longitudinale</i>	Pithy Sword-sedge
MTG	<i>Austrodanthonia racemosa</i> var. <i>racemosa</i>	Stiped Wallaby-grass
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MTG	<i>Dichelachne crinita</i>	Long-hair Plume-grass
MTG	<i>Lepidosperma congestum</i>	Clustered Sword-sedge
MNG	<i>Lomadra juncea</i>	Desert Mat-rush
MNG	<i>Hypolaena fastigiata</i>	Tassel Rope-rush
MNG	<i>Chorizandra enodis</i>	Black Bristle-sedge
TTG	<i>Centrolepis polygyna</i>	Wiry Centrolepis
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Billardiera cymosa</i> s.l.	Sweet Apple-berry
SC	<i>Cassytha glabella</i>	Slender Dodder-laurel

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
T	<i>Olea europaea</i> ssp. <i>europaea</i>	Common Olive	high	high
MS	<i>Rubus</i> sp. aff. <i>armeniacus</i>	Blackberry	high	high
SS	<i>Pyracantha fortuneana</i>	Broad-leaf Firethorn	high	high
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
LH	<i>Asparagus officinalis</i>	Asparagus	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Centaureum erythraea</i>	Common Centaury	high	low
LNG	<i>Avena</i> spp.	Oat	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MNG	<i>Vulpia muralis</i>	Wall Fescue	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Aira caryophylla</i>	Silvery Hair-grass	high	low
TTG	<i>Isolepis hystrix</i>	Awned Club-sedge	high	low
TTG	<i>Cyperus tenellus</i>	Tiny Flat-sedge	high	low
Und	<i>Silene</i> spp.	Catchfly	high	low

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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 coarse 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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	80 cm	10 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
10%	<i>Eucalyptus camaldulensis</i>	River Red-gum
	<i>Eucalyptus ovata</i>	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	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Acacia mearnsii</i>	Blac Wattle
MS	<i>Leptospermum lanigerum</i>	Woolly Tea-tree
MS	<i>Leptospermum obovatum</i>	River Tea-tree
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Ozothamnus ferrugineus</i>	Tree Everlasting
SS	<i>Rubus parvifolius</i>	Small-leaf Bramble
MH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
SH	<i>Lobelia pratioides</i>	Poison Lobelia
SH	<i>Crassula helmsii</i>	Swamp Crassula
LTG	<i>Poa labillardierei</i>	Common Tussock-garss
LNG	<i>Phragmites australis</i>	Common Reed
LNG	<i>Typha domingensis</i>	Cumbungi
MTG	<i>Austrodanthonia racemosa</i> var. <i>racemosa</i>	Stiped Wallaby-grass
MTG	<i>Austrodanthonia caespitosa</i>	Common Wallaby-grass
MTG	<i>Juncus pauciflorus</i>	Loose-flower Rush
MTG	<i>Juncus caespiticius</i>	Grassy Rush
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Eleocharis acuta</i>	Common Spike-sedge
MNG	<i>Ficinia nodosa</i>	Knobby Club-sedge



# 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	<i>Salix fragilis</i>	Crack Willow	high	high
MS	<i>Lycium ferocissimum</i>	African Box-thorn	low	high
MS	<i>Genista monspessulana</i>	Montpellier Broom	high	high
MS	<i>Rosa rubiginosa</i>	Sweet Briar	low	high
MS	<i>Rubus</i> sp. aff. <i>armeniacus</i>	Blackberry	high	high
LH	<i>Plantago lanceolata</i>	Ribwort	high	low
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Hirschfeldia incana</i>	Buchan Weed	high	high
LH	<i>Verbena bonariensis</i> s.l.	Purple-top Verbena	high	high
LH	<i>Rumex crispus</i>	Curled Dock	high	high
LH	<i>Rumex conglomeratus</i>	Clustered Dock	high	high
LH	<i>Conium maculatum</i>	Hemlock	high	high
LH	<i>Helminthotheca echioides</i>	Ox-tongue	high	low
LH	<i>Aster subulatus</i>	Aster-weed	high	low
LH	<i>Sonchus asper</i> s.l.	Rough Sow-thistle	high	low
LH	<i>Solanum nigrum</i> sensu Willis (1972)	Black Nightshade	high	high
MH	<i>Brassica fruticulosa</i>	Twiggy Turnip	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Foeniculum vulgare</i>	Fennel	high	high
SH	<i>Modiola caroliniana</i>	Red-flower Mallow	high	low
LTG	<i>Phalaris aquatica</i>	Toowoomba Canary-grass	high	high
LTG	<i>Piptatherum miliaceum</i>	Rice Millet	high	high
MTG	<i>Ehrharta erecta</i> var. <i>erecta</i>	Panic Veldt-grass	high	high
MTG	<i>Paspalum dilatatum</i>	Paspalum	high	high
MTG	<i>Bromus catharticus</i>	Prairie Grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Bromus diandrus</i>	Great Brome	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Agrostis capillaris</i> s.l.	Brown-top Bent	high	high
MNG	<i>Dactylis glomerata</i>	Cocksfoot	high	high
MNG	<i>Paspalum distichum</i>	Water Couch	high	high
SC	<i>Tradescantia fluminensis</i>	Wandering Jew	high	high

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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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	70 cm	15 / ha

#### Tree Canopy Cover:

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

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	11	25%	MS
Small Shrub	11	20%	SS
Prostrate Shrub	4	5%	PS
Large Herb	2	5%	LH
Medium Herb	14	10%	MH
Small or Prostrate Herb	4	5%	SH
Large Tufted Graminoid	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

# EVC 704: Lateritic Woodland - Dundas Tablelands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Leptospermum myrsinoides</i>	Heath Tea-tree
MS	<i>Grevillea alpina</i>	Cat's Claw Grevillea
MS	<i>Brachyloma daphnoides</i>	Daphne Heath
MS	<i>Banksia marginata</i>	Silver Banksia
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Astroloma conostephioides</i>	Flame Heath
SS	<i>Hibbertia stricta s.l.</i>	Upright Guinea-flower
SS	<i>Dillwynia sericea s.l.</i>	Showy Parrot-pea
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Styphelia adscendens</i>	Golden Heath
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
LH	<i>Ixodia achillaeoides ssp. alata</i>	Ixodia
MH	<i>Drosera peltata ssp. peltata</i>	Pale Sundew
MH	<i>Chamaescilla corymbosa var. corymbosa</i>	Blue Stars
MH	<i>Burchardia umbellata</i>	Milkmaids
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Drosera glanduligera</i>	Scarlet Sundew
SH	<i>Siloxerus multiflorus</i>	Small Wrinklewort
SH	<i>Viola cleistogamoides</i>	Hidden Violet
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
LTG	<i>Gahnia radula</i>	Thatch Saw-sedge
LTG	<i>Xanthorrhoea minor ssp. lutea</i>	Small Grass-tree
MTG	<i>Dichelachne crinita</i>	Long-hair Plume-grass
MTG	<i>Pentapogon quadrifidus</i>	Five-awned Spear-grass
MTG	<i>Neurachne alopecuroides</i>	Fox-tail Mulga-grass
MTG	<i>Dianella revoluta s.l.</i>	Black-anther Flax-lily
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
MNG	<i>Lepidobolus drapetocoleus</i>	Scale Shedder
MNG	<i>Hypolaena fastigiata</i>	Tassel Rope-rush
TTG	<i>Centrolepis strigosa ssp. strigosa</i>	Hairy Centrolepis
TTG	<i>Centrolepis aristata</i>	Pointed Centrolepis
TTG	<i>Schoenus breviculmis</i>	Matted Bog-sedge
TTG	<i>Isolepis marginata</i>	Little Club-sedge
EP	<i>Amyema miquelii</i>	Box Mistletoe
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily
SC	<i>Grevillea aquifolium</i>	Variable Prickly Grevillea
SC	<i>Drosera macrantha</i>	Climbing Sundew
SC	<i>Cassytha pubescens s.s.</i>	Downy Dodder-laurel
SC	<i>Cassytha glabella</i>	Slender Dodder-laurel

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Arctotheca calendula</i>	Cape Weed	high	low
MH	<i>Cerastium glomeratum s.l.</i>	Common Mouse-ear Chickweed	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Aira cupaniana</i>	Quicksilver Grass	high	low
MNG	<i>Aira caryophyllea</i>	Silvery Hair-grass	high	low
TTG	<i>Cyperus tenellus</i>	Tiny Flat-sedge	high	low

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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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	70 cm	10 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
10%	<i>Eucalyptus ovata</i>	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	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Acacia verticillata</i>	Prickly Moses
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Ozothamnus ferrugineus</i>	Tree Everlasting
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
LH	<i>Epilobium billardierianum</i>	Variable Willow-herb
LH	<i>Villarsia reniformis</i>	Running Marsh-flower
MH	<i>Centella cordifolia</i>	Centella
MH	<i>Lilaeopsis polyantha</i>	Australian Lilaeopsis
MH	<i>Utricularia dichotoma s.l.</i>	Fairies' Aprons
SH	<i>Eryngium vesiculosum</i>	Prickfoot
SH	<i>Neopaxia australasica</i>	White Purslane
SH	<i>Lobelia pratioides</i>	Poison Lobelia
SH	<i>Hypericum japonicum</i>	Matted St John's Wort
LTG	<i>Juncus flavidus</i>	Gold Rush
LTG	<i>Amphibromus nervosus</i>	Common Swamp Wallaby-grass
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
MTG	<i>Glyceria australis</i>	Australian Sweet-grass
MTG	<i>Juncus holoschoenus</i>	Joint-leaf Rush
MTG	<i>Austrodanthonia duttoniana</i>	Brown-back Wallaby-grass
MNG	<i>Eleocharis acuta</i>	Common Spike-sedge
MNG	<i>Eleocharis pusilla</i>	Small Spike-sedge

# 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	<i>Plantago lanceolata</i>	Ribwort	high	low
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Sonchus asper s.l.</i>	Rough Sow-thistle	high	low
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
MH	<i>Trifolium dubium</i>	Suckling Clover	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	high
MH	<i>Leontodon taraxacoides ssp. taraxacoides</i>	Hairy Hawkbit	high	low
LTG	<i>Festuca arundinacea</i>	Tall Fescue	high	high
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high
MNG	<i>Holcus setosus</i>	Annual Fog	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low
TTG	<i>Cyperus tenellus</i>	Tiny Flat-sedge	high	low

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

# 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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	60 cm	10 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
10%	<i>Eucalyptus viminalis</i>	Manna Gum
	<i>Eucalyptus ovata</i>	Swamp Gum
	<i>Eucalyptus baxteri</i>	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

#### Species typical of at least part of EVC range

#### Common Name

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

# 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	<i>Cirsium vulgare</i>	Spear Thistle	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Centaurea erythraea</i>	Common Centaury	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high

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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
<i>Eucalyptus</i> spp.	70 cm	15 / ha
<i>Allocasuarina luehmannii</i>	40 cm	

#### Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus leucoxylon</i>	Yellow Gum
	<i>Allocasuarina luehmannii</i>	Buloke
	<i>Eucalyptus microcarpa</i>	Grey Box
	<i>Eucalyptus melliodora</i>	Yellow Box

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	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
<b>Total understorey projective foliage cover</b>		<b>95%</b>	

#### Recruitment:

Continuous

#### Organic Litter:

20 % cover

#### Logs:

10 m/0.1 ha.



# EVC 803: Plains Woodland - Dundas Tablelands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Acacia pycnantha</i>	Golden Wattle
MS	<i>Acacia acinacea</i> s.l.	Gold-dust Wattle
SS	<i>Eutaxia microphylla</i> var. <i>microphylla</i>	Common Eutaxia
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
MH	<i>Acaena echinata</i>	Sheep's Burr
MH	<i>Plantago gaudichaudii</i>	Narrow Plantain
MH	<i>Maireana enchylaenoides</i>	Wingless Bluebush
MH	<i>Calocephalus citreus</i>	Lemon Beauty-heads
SH	<i>Solenogyne dominii</i>	Smooth Solenogyne
SH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
SH	<i>Daucus glochidiatus</i>	Austral Carrot
SH	<i>Goodenia pinnatifida</i>	Cut-leaf Goodenia
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
MTG	<i>Austrostipa scabra</i>	Rough Spear-grass
MTG	<i>Austroanthonia setacea</i>	Bristly Wallaby-grass
MTG	<i>Dianella revoluta</i> s.s.	Black-anther Flax-lily
MTG	<i>Austroanthonia caespitosa</i>	Common Wallaby-grass
MNG	<i>Wurmbea dioica</i>	Common Early Nancy
TTG	<i>Centrolepis strigosa</i> ssp. <i>strigosa</i>	Hairy Centrolepis
TTG	<i>Centrolepis aristata</i>	Pointed Centrolepis
EP	<i>Amyema miquelii</i>	Box Mistletoe
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily
SC	<i>Convolvulus erubescens</i> spp. agg.	Pink Bindweed

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Trifolium angustifolium</i> var. <i>angustifolium</i>	Narrow-leaf Clover	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Arctotheca calendula</i>	Cape Weed	high	low
MH	<i>Petrorhagia velutina</i>	Velvety Pink	high	low
MH	<i>Trifolium dubium</i>	Suckling Clover	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
SH	<i>Trifolium glomeratum</i>	Cluster Clover	high	low
LNG	<i>Avena fatua</i>	Wild Oat	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Lolium rigidum</i>	Wimmera Rye-grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MNG	<i>Vulpia myuros</i>	Rat's-tail Fescue	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low
MNG	<i>Bromus rubens</i>	Red Brome	high	low

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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	#Spp	%Cover	LF Code
Large Herb	3	10%	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

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

#### Recruitment:

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

#### Organic Litter:

10 % cover

# EVC 821: Tall Marsh

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Cotula coronopifolia</i>	Water Buttons	high	high
MNG	<i>Paspalum distichum</i>	Water Couch	high	high

## 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	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	70 cm	15 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus leucoxylon</i>	Yellow Gum
	<i>Eucalyptus baxteri</i> s.l.	Brown Stringybark
	<i>Eucalyptus ovata</i>	Swamp Gum

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	15%	T
Medium Shrub	3	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

# EVC 882: Shallow Sands Woodland - Dundas Tablelands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia mearnsii</i>	Black Wattle
MS	<i>Leptospermum myrsinoides</i>	Heath Tea-tree
MS	<i>Brachyloma daphnoides</i>	Daphne Heath
SS	<i>Hibbertia stricta s.l.</i>	Upright Guinea-flower
SS	<i>Astroloma conostephioides</i>	Flame Heath
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Leucopogon virgatus</i>	Common Beard-heath
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
MH	<i>Chrysocephalum apiculatum s.l.</i>	Common Everlasting
MH	<i>Goodenia geniculata</i>	Bent Goodenia
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG	<i>Xanthorrhoea minor ssp. lutea</i>	Small Grass-tree
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
LTG	<i>Xanthorrhoea caespitosa</i>	Tufted Grass-tree
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MTG	<i>Lomandra nana</i>	Dwarf Mat-rush
MTG	<i>Lepidosperma carphoides</i>	Black Rapier-sedge
MTG	<i>Austrodanthonia geniculata</i>	Knead Wallaby-grass
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
MNG	<i>Hypolaena fastigiata</i>	Tassel Rope-rush
TTG	<i>Centrolepis strigosa ssp. strigosa</i>	Hairy Centrolepis
TTG	<i>Centrolepis aristata</i>	Pointed Centrolepis
SC	<i>Thysanotus patersonii</i>	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	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MH	<i>Centaurea erythraea</i>	Common Centaury	high	low
MH	<i>Cicendia filiformis</i>	Slender Cicendia	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MNG	<i>Aira cupaniana</i>	Quicksilver Grass	high	low
MNG	<i>Aira caryophyllea</i>	Silvery Hair-grass	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low
Und	<i>Vulpia spp.</i>	Fescue	high	low

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# 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<sup>+</sup>:

Species	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	70 cm	15 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Acacia implexa</i>	Lightwood
	<i>Allocasuarina verticillata</i>	Drooping Sheoak
	<i>Acacia mearnsii</i>	Black Wattle
	<i>Bursaria spinosa</i>	Sweet Bursaria
	<i>Eucalyptus ovata</i>	Swamp Gum

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree <sup>+</sup>		5%	IT
Understorey Tree or Large Shrub <sup>+</sup>	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	Species typical of at least part of EVC range	Common Name
MS	<i>Rhagodia parabolica</i>	Fragrant Saltbush
MS	<i>Hymenanthera dentata s.l.</i>	Tree Violet
SS	<i>Enchylaena tomentosa var. tomentosa</i>	Ruby Saltbush
LH	<i>Wahlenbergia communis s.l.</i>	Tufted Bluebell
MH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
MH	<i>Maireana enchylaenoides</i>	Wingless Bluebush
MH	<i>Einadia nutans ssp. nutans</i>	Nodding Saltbush
SH	<i>Chamaesyce drummondii</i>	Flat Spurge
SH	<i>Dichondra repens</i>	Kidney-weed
LTG	<i>Austrostipa bigeniculata</i>	Knead Spear-grass
MTG	<i>Austrodanthonia racemosa var. racemosa</i>	Stiped Wallaby-grass
MTG	<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass
MNG	<i>Panicum effusum</i>	Hairy Panic
GF	<i>Cheilanthes distans</i>	Bristly Cloak-fern
SC	<i>Clematis microphylla</i>	Small-leaved Clematis
SC	<i>Convolvulus erubescens spp. agg.</i>	Pink Bindweed

# EVC 895: Escarpment Shrubland - Dundas Tablelands bioregion

## Recruitment:

Continuous

## Organic Litter:

20 % cover

## Logs:

15 m/0.1 ha<sup>+</sup>.

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

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
T	<i>Schinus molle</i>	Pepper Tree	low	high
MS	<i>Lycium ferocissimum</i>	African Box-thorn	low	high
MS	<i>Genista monspessulana</i>	Montpellier Broom	low	high
SS	<i>Marrubium vulgare</i>	Horehound	low	high
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Helminthotheca echioides</i>	Ox-tongue	high	high
LH	<i>Lactuca serriola</i>	Prickly Lettuce	high	low
LH	<i>Sisymbrium officinale</i>	Hedge Mustard	high	high
LH	<i>Sonchus asper s.l.</i>	Rough Sow-thistle	high	low
LH	<i>Verbascum thapsus ssp. thapsus</i>	Great Mullein	high	high
LH	<i>Echium plantagineum</i>	Paterson's Curse	high	high
LH	<i>Centaureum tenuiflorum</i>	Slender Centaury	high	low
LH	<i>Foeniculum vulgare</i>	Fennel	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Trifolium arvense var. arvense</i>	Hare's-foot Clover	high	low
MH	<i>Trifolium subterraneum</i>	Subterranean Clover	high	low
MH	<i>Trifolium campestre var. campestre</i>	Hop Clover	high	low
MH	<i>Trifolium angustifolium var. angustifolium</i>	Narrow-leaf Clover	high	low
MH	<i>Lotus suaveolens</i>	Hairy Bird's-foot Trefoil	high	low
MH	<i>Cerastium glomeratum s.l.</i>	Common Mouse-ear Chickweed	high	low
SH	<i>Medicago polymorpha</i>	Burr Medic	high	low
SH	<i>Trifolium glomeratum</i>	Cluster Clover	high	low
SH	<i>Modiola caroliniana</i>	Red-flower Mallow	high	low
SH	<i>Aptenia cordifolia</i>	Heart-leaf Ice-plant	high	high
LTG	<i>Phalaris aquatica</i>	Toowoomba Canary-grass	high	high
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
LNG	<i>Avena fatua</i>	Wild Oat	high	low
MTG	<i>Nassella trichotoma</i>	Serrated Tussock	high	high
MTG	<i>Ehrharta longiflora</i>	Annual Veldt-grass	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Bromus hordeaceus ssp. hordeaceus</i>	Soft Brome	high	low
MTG	<i>Sporobolus africanus</i>	Rat-tail Grass	high	high
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Pentstemonis airoides ssp. airoides</i>	False Hair-grass	high	low
MTG	<i>Lolium perenne</i>	Perennial Rye-grass	high	high
MTG	<i>Dactylis glomerata</i>	Cocksfoot	high	high
MTG	<i>Vulpia myuros</i>	Rat's-tail Fescue	high	low
MTG	<i>Bromus rubens</i>	Red Brome	high	low
MTG	<i>Avena barbata</i>	Bearded Oat	high	low
MTG	<i>Aira caryophylla</i>	Silvery Hair-grass	high	low
SC	<i>Vicia sativa ssp. sativa</i>	Common Vetch	low	low

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