

# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Greater Grampians 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
15%	<i>Eucalyptus sabulosa</i>	Wimmera Scentbark
	<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	5%	T
Medium Shrub	6	30%	MS
Small Shrub	3	5%	SS
Prostrate Shrub	1	1%	PS
Medium Herb	6	10%	MH
Small or Prostrate Herb	5	5%	SH
Large Tufted Graminoid	2	10%	LTG
Medium to Small Tufted Graminoid	2	5%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
Ground Fern	1	10%	GF
Bryophytes/Lichens	na	20%	BL

## EVC 3: Damp Sands Herb-rich Woodland - Greater Grampians 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
T	<i>Acacia retinodes</i> var. <i>retinodes</i>	Wirilda
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Coprosma quadrifida</i>	Prickly Coprosma
MS	<i>Leptospermum scoparium</i>	Manuka
SS	<i>Astroloma conostephioides</i>	Flame Heath
SS	<i>Hibbertia riparia</i>	Erect Guinea-flower
SS	<i>Amperea xiphioclada</i> var. <i>xiphioclada</i>	Broom Spurge
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Astroloma humifusum</i>	Cranberry Heath
MH	<i>Lagenophora stipitata</i>	Common Lagenifera
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Hypericum gramineum</i>	Small St John's Wort
MH	<i>Poranthera microphylla</i>	Small Poranthera
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Asperula conferta</i>	Common Woodruff
SH	<i>Hydrocotyle foveolata</i>	Yellow Pennywort
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LTG	<i>Carex appressa</i>	Tall Sedge
MTG	<i>Luzula meridionalis</i> var. <i>flaccida</i>	Common Woodrush
MTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Asplenium flabellifolium</i>	Necklace Fern

### Recruitment:

Continuous

### Organic Litter:

40 % 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>Anagallis arvensis</i>	Pimpernel	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 caryophyllea</i>	Silvery Hair-grass	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment Greater Grampians bioregion

## EVC 6: Sand Heathland

### Description:

A generally treeless heath occurring on deep infertile sands with occasional scattered emergent eucalypts. Consists of a diverse, low, dense heathy shrub layer. Herbs and grasses are notably absent or of low frequency in the ground layer but a number of restionaceous species are often present.

### Life forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	9	45%	MS
Small Shrub	9	20%	SS
Prostrate Shrub	2	1%	PS
Large Herb	1	1%	LH
Medium Herb	5	10%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	2	10%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	5	15%	MTG
Medium to Tiny Non-tufted Graminoid	3	15%	MNG
Scrambler or Climber	1	1%	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 myrsinoides</i>	Heath Tea-tree
MS	<i>Banksia marginata</i>	Silver Banksia
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>Leucopogon virgatus</i>	Common Beard-heath
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Astroloma conostephioides</i>	Flame Heath
PS	<i>Styphelia adscendens</i>	Golden Heath
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Goodenia geniculata</i>	Bent Goodenia
MH	<i>Drosera peltata ssp. peltata</i>	Pale Sundew
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Lepidosperma carphoides</i>	Black Rapier-sedge
MTG	<i>Amphipogon strictus var. setifer</i>	Grey-beard Grass
MTG	<i>Lomandra sororia</i>	Small Mat-rush
MTG	<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass
MNG	<i>Hypolaena fastigiata</i>	Tassel Rope-rush
MNG	<i>Leptocarpus tenax</i>	Slender Twine-rush
MNG	<i>Lepyrodia muelleri</i>	Common Scale-rush
TTG	<i>Schoenus breviculmis</i>	Matted Bog-sedge
SC	<i>Cassytha glabella</i>	Slender Dodder-laurel
SC	<i>Grevillea aquifolium</i>	Variable Prickly Grevillea

### 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 - Greater Grampians bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Greater Grampians bioregion

### EVC 8: Wet Heathland

#### Description:

A low, generally treeless heathland although sometimes emergent eucalypts may be present often dominated by a range of sedges, grasses and shrubs. Occurs on lower slopes, flats or depressions, which are infertile and subjected to prolonged water logging.

#### Life forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	8	35%	MS
Small Shrub	5	10%	SS
Prostrate Shrub	1	1%	PS
Large Herb	2	5%	LH
Medium Herb	5	10%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	3	15%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	5	10%	MTG
Medium to Tiny Non-tufted Graminoid	5	15%	MNG
Tiny Tufted Graminoid	1	1%	TTG
Ground Fern	2	5%	GF
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	20%	BL

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Melaleuca squarrosa</i>	Scented Paperbark
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Sprengelia incarnata</i>	Pink Swamp-heath
SS	<i>Dillwynia glaberrima</i>	Smooth Parrot-pea
SS	<i>Dillwynia sericea s.l.</i>	Showy Parrot-pea
SS	R r <i>Pultenaea luehmannii</i>	Thready Bush-pea
SS	<i>Tetradlea ciliata</i>	Pink-bells
LH	<i>Xyris operculata</i>	Tall Yellow-eye
MH	<i>Selaginella uliginosa</i>	Swamp Selaginella
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Drosera peltata ssp. peltata</i>	Pale Sundew
MH	<i>Drosera binata</i>	Forked Sundew
SH	<i>Drosera whittakeri ssp. aberrans</i>	Scented Sundew
SH	<i>Drosera pygmaea</i>	Tiny Sundew
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
LTG	<i>Gymnoschoenus sphaerocephalus</i>	Button Grass
LTG	<i>Xanthorrhoea minor ssp. lutea</i>	Small Grass-tree
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Eurychorda complanata</i>	Flat Cord-rush
MTG	<i>Patersonia occidentalis</i>	Long Purple-flag
MTG	<i>Stylidium graminifolium s.l.</i>	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>Cassytha glabella</i>	Slender Dodder-laurel

# EVC 8: Wet Heathland - Greater Grampians 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

## Greater Grampians bioregion

### EVC 16: Lowland Forest

#### Description:

Eucalypt forest to 25 m tall on relatively fertile, moderately well-drained soils in areas of relatively high rainfall. Characterised by the diversity of life forms and species in the understorey including a range of shrubs, grasses and herbs.

#### Large trees:

Species	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 alaticaulis</i>	Grampians Grey-gum

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	14	30%	MS
Small Shrub	6	10%	SS
Prostrate Shrub	2	5%	PS
Large Herb	1	1%	LH
Medium Herb	8	15%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	5	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	2	5%	GF
Scrambler or Climber	3	5%	SC
Bryophytes/Lichens	na	10%	BL

# EVC 16: Lowland Forest - Greater Grampians bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Correa reflexa</i>	Common Correa
MS	<i>Pultenaea scabra</i>	Rough Bush-pea
SS	<i>Tetradlea ciliata</i>	Pink-bells
SS	<i>Hovea heterophylla</i>	Common Hovea
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Platylobium obtusangulum</i>	Common Flat-pea
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Styphelia adscendens</i>	Golden Heath
MH	<i>Viola hederacea sensu Entwisle (1996)</i>	Ivy-leaf Violet
MH	<i>Platysace heterophylla</i>	Slender Platysace
MH	<i>Drosera peltata ssp. auriculata</i>	Tall Sundew
MH	<i>Helichrysum scorpioides</i>	Button Everlasting
SH	<i>Chiloglottis gunnii s.l.</i>	Common Bird-orchid
SH	<i>Opercularia varia</i>	Variable Stinkweed
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Dianella revoluta s.l.</i>	Black-anther Flax-lily
MTG	<i>Lepidosperma semiteres</i>	Wire Rapier-sedge
MTG	<i>Lepidosperma laterale</i>	Variable Sword-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>Comesperma volubile</i>	Love Creeper
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Billardiera scandens</i>	Common Apple-berry
SC	r <i>Billardiera bignoniacea</i>	Orange Bell-climber

## 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

## Greater Grampians bioregion

### EVC 18: Riparian Forest

#### Description:

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

#### Large trees:

Species	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	80 cm	20 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus obliqua</i>	Messmate Stringybark
	<i>Eucalyptus cypellocarpa</i>	Mountain Grey-gum
	<i>Eucalyptus baxteri</i> s.l.	Brown Stringybark

#### 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	2	1%	SS
Medium Herb	3	5%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	4	20%	LTG
Medium to Small Tufted Graminoid	3	5%	MTG
Medium to Tiny Non-tufted Graminoid	3	5%	MNG
Ground Fern	5	25%	GF
Tree Fern	1	5%	TRF
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	20%	BL

# EVC 18: Riparian Forest - Greater Grampians bioregion

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>Coprosma hirtella</i>	Rough Coprosma
MS	<i>Leptospermum lanigerum</i>	Woolly Tea-tree
MS	<i>Pultenaea juniperina s.l.</i>	Prickly Bush-pea
SS	<i>Olearia erubescens</i>	Moth Daisy-bush
SS	<i>Tetratheca ciliata</i>	Pink-bells
SS	<i>Daviesia brevifolia</i>	Leafless Bitter-pea
SS	k <i>Olearia speciosa</i>	Netted Daisy-bush
LH	<i>Ixodia achillaeoides</i>	Ixodia
MH	<i>Gonocarpus humilis</i>	Shade Raspwort
MH	<i>Euchiton involucreatus s.s.</i>	Star Cudweed
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
MH	<i>Viola hederacea sensu Entwisle (1996)</i>	Ivy-leaf Violet
SH	<i>Lobelia pedunculata s.l.</i>	Matted Pratia
SH	<i>Mitrasacme pilosa</i>	Hairy Mitrewort
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LTG	<i>Lepidosperma elatius</i>	Tall Sword-sedge
LTG	<i>Juncus vaginatus</i>	Clustered Rush
LTG	<i>Lepidosperma laterale var. majus</i>	Variable Sword-sedge
MTG	<i>Tetraria capillaris</i>	Hair Sedge
MTG	<i>Poa clelandii</i>	Noah's Ark
MTG	<i>Isolepis inundata</i>	Swamp Club-sedge
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
MNG	<i>Empodisma minus</i>	Spreading Rope-rush
MNG	<i>Schoenus lepidosperma</i>	Slender Bog-sedge
MNG	<i>Eleocharis pusilla</i>	Small Spike-sedge
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Blechnum wattsii</i>	Hard Water-fern
GF	<i>Sticherus tener s.l.</i>	Silky Fan-fern
GF	<i>Blechnum nudum</i>	Fishbone Water-fern
TRF	<i>Todea barbara</i>	Austral King-fern
SC	<i>Grevillea aquifolium</i>	Variable Prickly Grevillea
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	r <i>Billardiera bignoniacea</i>	Orange Bell-climber

## Recruitment:

Continuous

## Organic Litter:

50 % cover

## Logs:

30 m/0.1 ha.

## Weediness:

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

## Greater Grampians 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. <i>Eucalyptus obliqua</i>	Brown Stringybark 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	25%	MS
Small Shrub	12	20%	SS
Prostrate Shrub	3	5%	PS
Large Herb	1	1%	LH
Medium Herb	10	20%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	1	5%	LTG
Large Non-tufted Graminoid	2	5%	LNG
Medium to Small Tufted Graminoid	7	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	1	1%	GF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C



# EVC 20: Heathy Dry Forest - Greater Grampians bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Exocarpos cupressiformis</i>	Cherry Ballart
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Correa reflexa</i>	Common Correa
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Leptospermum myrsinoides</i>	Heath Tea-tree
SS	<i>Tetradlea ciliata</i>	Pink-bells
SS	<i>Platylobium obtusangulum</i>	Common Flat-pea
SS	<i>Leucopogon virgatus</i>	Common Beard-heath
SS	<i>Hovea heterophylla</i>	Common Hovea
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Styphelia adscendens</i>	Golden Heath
PS	<i>Xanthosia pusilla</i> spp. agg.	Heath Xanthosia
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Helichrysum scorpioides</i>	Button Everlasting
MH	<i>Drosera peltata</i> ssp. <i>auriculata</i>	Tall Sundew
MH	<i>Craspedia glauca</i> spp. agg.	Common Billy-buttons
SH	<i>Drosera whittakeri</i> ssp. <i>aberrans</i>	Scented Sundew
SH	<i>Opercularia varia</i>	Variable Stinkweed
SH	<i>Viola cleistogamoides</i>	Hidden Violet
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
LNG	<i>Austrostipa muelleri</i>	Wiry Spear-grass
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MTG	<i>Lepidosperma semiteres</i>	Wire Rapier-sedge
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Lomandra micrantha</i> s.l.	Small-flower Mat-rush
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Hypolaena fastigiata</i>	Tassel Rope-rush
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
SC	<i>Grevillea aquifolium</i>	Variable Prickly Grevillea
SC	<i>Comesperma volubile</i>	Love Creeper
SC	<i>Billardiera scandens</i>	Common Apple-berry

## 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

## Greater Grampians bioregion

### EVC 22: Grassy Dry Forest

#### Description:

Occurs on the upper scree and scarp slopes of the Grampians range. The overstorey is dominated by a low to medium height forest of eucalypts to 20 m tall, sometimes resembling an open woodland with a secondary, smaller tree layer including a number of Acacia species. The understorey usually consists of a sparse shrub layer of medium height. Grassy Dry Forest is characterised by a ground layer dominated by a high diversity of drought-tolerant grasses and herbs.

#### Large trees:

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

#### Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus macrorhyncha</i> <i>Eucalyptus obliqua</i>	Red Stringybark Messmate Stringybark

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	5%	T
Medium Shrub	3	10%	MS
Small Shrub	3	5%	SS
Prostrate Shrub	2	5%	PS
Large Herb	3	5%	LH
Medium Herb	7	20%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	6	25%	MTG
Medium to Tiny Non-tufted Graminoid	1	5%	MNG
Ground Fern	1	1%	GF
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

#### Recruitment:

Continuous

#### Organic Litter:

20 % cover

#### Logs:

20 m/0.1 ha.

# EVC 22: Grassy Dry Forest - Greater Grampians 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>Monotoca scoparia</i>	Prickly Broom-heath
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Ozothamnus obcordatus</i>	Grey Everlasting
MS	<i>Grevillea alpina</i>	Cat's Claw Grevillea
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Tetratheca ciliata</i>	Pink-bells
SS	<i>Hovea heterophylla</i>	Common Hovea
SS	<i>Dillwynia sericea</i> s.l.	Showy Parrot-pea
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
PS	<i>Styphelia adscendens</i>	Golden Heath
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
LH	<i>Arthropodium strictum</i> s.l.	Chocolate Lily
LH	<i>Thelymitra ixioides</i> s.l.	Spotted Sun-orchid
LH	<i>Gastrodia sesamoides</i> s.l.	Cinnamon Bells
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Drosera peltata</i> ssp. <i>auriculata</i>	Tall Sundew
MH	<i>Burchardia umbellata</i>	Milkmaids
MH	<i>Hypericum gramineum</i>	Small St John's Wort
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Viola cleistogamoides</i>	Hidden Violet
SH	<i>Opercularia varia</i>	Variable Stinkweed
SH	<i>Oxalis exilis</i>	Shady Wood-sorrel
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
MTG	<i>Poa sieberiana</i> var. <i>sieberiana</i>	Grey Tussock-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Dichelachne rara</i>	Common Plume-grass
MTG	<i>Lomandra nana</i>	Dwarf Mat-rush
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Caustis flexuosa</i>	Curly Wig
GF	<i>Cheilanthes austrotenuifolia</i>	Green Rock-fern
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily
SC	<i>Billardiera scandens</i>	Common Apple-berry
SC	<i>Comesperma volubile</i>	Love Creeper

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Centaurium tenuiflorum</i>	Slender Centaury	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Greater Grampians bioregion

### EVC 23: Herb-rich Foothill Forest

#### Description:

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

#### Large trees:

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

#### Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus obliqua</i>	Messmate Stringybark
	<i>Eucalyptus cypellocarpa</i>	Mountain Grey-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	10%	T
Medium Shrub	7	25%	MS
Small Shrub	2	1%	SS
Large Herb	4	5%	LH
Medium Herb	10	15%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	3	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	3	10%	GF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	20%	BL

# EVC 23: Herb-rich Foothill Forest - Greater Grampians bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Coprosma hirtella</i>	Rough Coprosma
MS	<i>Leptospermum scoparium</i>	Manuka
MS	<i>Epacris impressa</i>	Common Heath
MS	r <i>Correa aemula</i>	Hairy Correa
SS	<i>Tetradlea ciliata</i>	Pink-bells
SS	<i>Pimelea curviflora s.l.</i>	Curved Rice-flower
SS	<i>Olearia myrsinoides</i>	Silky Daisy-bush
PS	<i>Styphelia adscendens</i>	Golden Heath
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
LH	<i>Mentha laxiflora</i>	Forest Mint
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
MH	<i>Stellaria pungens</i>	Prickly Starwort
MH	<i>Geranium potentilloides</i>	Cinquefoil Cranesbill
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Hydrocotyle sibthorpioides</i>	Shining Pennywort
SH	v <i>Swainsona brachycarpa</i>	Slender Swainson-pea
SH	<i>Chiloglottis gunnii s.l.</i>	Common Bird-orchid
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Lomandra filiformis ssp. coriacea</i>	Wattle Mat-rush
MTG	<i>Stylidium graminifolium s.l.</i>	Grass Trigger-plant
MTG	<i>Luzula meridionalis var. flaccida</i>	Common Woodrush
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
MNG	<i>Poa tenera</i>	Slender Tussock-grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Asplenium flabellifolium</i>	Necklace Fern
GF	<i>Adiantum aethiopicum</i>	Common Maidenhair
SC	<i>Cassytha melantha</i>	Coarse Dodder-laurel
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Comesperma volubile</i>	Love Creeper
SC	<i>Billardiera scandens</i>	Common Apple-berry

## Recruitment:

Continuous

## Organic Litter:

40 % cover

## Logs:

20 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>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment Greater Grampians bioregion

## EVC 28: Rocky Outcrop Shrubland

### Description:

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

### Life forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	13	55%	MS
Small Shrub	7	15%	SS
Prostrate Shrub	2	5%	PS
Large Herb	1	1%	LH
Medium Herb	4	5%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	6	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Scrambler or Climber	1	1%	SC
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>Callitris rhomboidea</i>	Oyster Bay Pine
MS	<i>Correa reflexa</i>	Common Correa
MS	<i>Leptospermum myrsinoides</i>	Heath Tea-tree
MS	<i>Grevillea alpina</i>	Cat's Claw Grevillea
SS	<i>Tetratheca ciliata</i>	Pink-bells
SS	r <i>Hibbertia cistiflora ssp. rostrata</i>	Rock Rose Guinea-flower
SS	<i>Leucopogon glacialis</i>	Twisted Beard-heath
SS	<i>Leucopogon virgatus</i>	Common Beard-heath
PS	<i>Astroloma pinifolium</i>	Pine Heath
PS	<i>Styphelia adscendens</i>	Golden Heath
PS	<i>Astroloma humifusum</i>	Cranberry Heath
MH	<i>Drosera peltata ssp. auriculata</i>	Tall Sundew
MH	<i>Gonocarpus teucrioides s.l.</i>	Germander Raspwort
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Burchardia umbellata</i>	Milkmaids
SH	r <i>Stylidium soboliferum</i>	Grampians Trigger-plant
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
MTG	<i>Dianella revoluta s.l.</i>	Black-anther Flax-lily
MTG	<i>Lepidosperma semiteres</i>	Wire Rapier-sedge
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Lomandra sororia</i>	Small Mat-rush
MNG	<i>Caustis flexuosa</i>	Curly Wig
MNG	<i>Tetrarrhena distichophylla</i>	Hairy Rice-grass
MNG	<i>Hypolaena fastigiata</i>	Tassel Rope-rush
SC	<i>Grevillea aquifolium</i>	Variable Prickly Grevillea

# EVC 28: Rocky Outcrop Shrubland - Greater Grampians bioregion

**Recruitment:**

Continuous

**Organic Litter:**

40 % cover

**Weediness:**

<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
MH	<i>Hypochoeris glabra</i>	Smooth 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

## Greater Grampians bioregion

### EVC 29: Damp Forest

#### Description:

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

#### Large trees:

Species	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	90 cm	20 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus baxteri</i> s.l. <i>Eucalyptus obliqua</i> <i>Eucalyptus cypellocarpa</i>	Brown Stringybark Messmate Stringybark Mountain Grey-gum

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	10%	T
Medium Shrub	3	10%	MS
Large Herb	1	5%	LH
Medium Herb	3	10%	MH
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	1	5%	MTG
Medium to Tiny Non-tufted Graminoid	1	10%	MNG
Ground Fern	2	20%	GF
Tree Fern	1	5%	TRF
Scrambler or Climber	1	5%	SC
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>Acacia verticillata</i>	Prickly Moses
MS	<i>Pultenaea juniperina</i> s.l.	Prickly Bush-pea
MS	R r <i>Hovea corrickiae</i>	Glossy Hovea
MS	<i>Coprosma hirtella</i>	Rough Coprosma
LH	<i>Senecio linearifolius</i>	Fireweed Groundsel
LH	<i>Mentha laxiflora</i>	Forest Mint
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
MH	<i>Poranthera microphylla</i>	Small Poranthera
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MNG	<i>Poa tenera</i>	Slender Tussock-grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
TRF	<i>Cyathea australis</i>	Rough Tree-fern
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	r <i>Billardiera bignoniacea</i>	Orange Bell-climber

# EVC 29: Damp Forest - Greater Grampians bioregion

**Recruitment:**

Continuous

**Organic Litter:**

50 % cover

**Logs:**

30 m/0.1 ha.

**Weediness:**

There are no consistent weeds in this EVC.

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment Greater Grampians bioregion

## EVC 30: Wet Forest

### Description:

Restricted to south-facing, steep narrow gullies that are sometimes spring fed and supplemented by relatively high annual rainfall. Characterised by a tall eucalypt overstorey to 30 m tall with scattered understorey trees and shrubs over a moist, shaded, fern-rich ground layer dominated by tree-ferns.

### Large trees:

Species	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	90 cm	20 / ha

### Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus obliqua</i>	Messmate
	<i>Eucalyptus cypellocarpa</i>	Mountain Grey-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	20%	T
Medium Shrub	4	15%	MS
Small Shrub	1	1%	SS
Large Herb	2	5%	LH
Medium Herb	3	5%	MH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium Tufted Graminoid	2	5%	MTG
Medium Non-tufted Graminoid	2	5%	MNG
Ground Fern	6	20%	GF
Tree Fern	2	20%	TRF
Epiphyte	2	1%	EP
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	20%	BL



# EVC 30: Wet Forest – Greater Grampians bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Pomaderris apetala</i> ssp. <i>apetala</i>	Grampians Pomaderris
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Acacia mucronata</i> ssp. <i>longifolia</i>	Narrow-leaf Wattle
MS	<i>Coprosma hirtella</i>	Rough Coprosma
MS	<i>Hovea corrickiae</i>	Glossy Hovea
SS	<i>Rubus parvifolius</i>	Small-leaf Bramble
LH	<i>Sambucus gaudichaudiana</i>	White Elderberry
LH	<i>Sigesbeckia orientalis</i> ssp. <i>orientalis</i>	Indian Weed
MH	<i>Stellaria flaccida</i>	Forest Starwort
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
MH	<i>Euchiton involucratu</i> s s.l.	Common Cudweed
MH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
LTG	<i>Carex appressa</i>	Tall Sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Poa labillardierei</i>	Common Tussock-grass
MNG	<i>Poa tenera</i>	Slender Tussock-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Blechnum nudum</i>	Fishbone Water-fern
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Blechnum wattsii</i>	Hard Water-fern
GF	<i>Histiopteris incisa</i>	Bat's Wing Fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
TRF	<i>Todea barbara</i>	Austral King-fern
EP	<i>Microsorium pustulatum</i> ssp. <i>pustulatum</i>	Kangaroo Fern
SC	<i>Clematis aristata</i>	Mountain Clematis

## Recruitment:

Continuous.

## Organic Litter:

50 % cover

## Logs:

30 m/0.1 ha.

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
SC	<i>Galium aparine</i>	Cleavers	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Greater Grampians bioregion

### EVC 37: Montane Grassy Woodland

#### Description:

Occurs in montane elevations on moderately fertile soils. An open and sparse eucalypt mallee woodland to 5 m tall with the understorey consisting of a small, sparse shrub layer. The EVC is characterised by its grassy ground cover together with a variety of other graminoids and herbs.

#### Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus pauciflora</i> ssp. <i>parvifructa</i> <i>Eucalyptus baxteri</i> s.l.	Grampians Sally Brown Stringybark

#### Understorey:

Life form	#Spp	%Cover	LF code
Medium Shrub	6	20%	MS
Small Shrub	3	10%	SS
Prostrate Shrub	2	5%	PS
Large Herb	2	5%	LH
Medium Herb	15	20%	MH
Small or Prostrate Herb	3	10%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	7	20%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

# EVC 37: Montane Grassy Woodland – Greater Grampians bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Acacia paradoxa</i>	Hedge Wattle
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Leptospermum scoparium</i>	Manuka
SS	<i>Acacia aculeatissima</i>	Thin-leaf Wattle
SS	<i>Dillwynia sericea</i> s.l.	Showy Parrot-pea
SS	<i>Pimelea humilis</i>	Common Rice-flower
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Astroloma pinifolium</i>	Pine Heath
LH	<i>Chrysocephalum apiculatum</i> s.l.	Common Everlasting
MH	<i>Brunonia australis</i>	Blue Pincushion
MH	<i>Daucus glochidiatus</i>	Austral Carrot
MH	<i>Drosera peltata</i>	Pale Sundew
MH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Drosera whittakerii</i> ssp. <i>aberrans</i>	Scented Sundew
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
MTG	<i>Poa labillardierei</i>	Common Tussock-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Dianella revoluta</i>	Black-anther Flax-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
TTG	<i>Centrolepis strigosa</i> ssp. <i>strigosa</i>	Hairy Centrolepis

## Recruitment:

Continuous

## Organic Litter:

20 % cover

## Logs:

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

## 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
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Greater Grampians bioregion

### EVC 45: Shrubby Foothill Forest

#### Description:

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

#### Large trees:

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

#### Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus obliqua</i>	Messmate Stringybark
	<i>Eucalyptus baxteri</i> s.l.	Brown Stringybark
	<i>Eucalyptus alaticaulis</i>	Grampians Grey-gum

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	10%	T
Understorey Tree or Large Shrub	1	1%	MT
Medium Shrub	13	40%	MS
Small Shrub	5	10%	SS
Prostrate Shrub	3	5%	PS
Large Herb	1	1%	LH
Medium Herb	5	10%	MH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	10%	LNG
Medium to Small Tufted Graminoid	6	15%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	2	5%	GF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL

# EVC 45: Shrubby Foothill Forest - Greater Grampians Bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	r <i>Banksia saxicola</i>	Rock Banksia
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Pultenaea scabra</i>	Rough Bush-pea
MS	<i>Coprosma hirtella</i>	Rough Coprosma
MS	<i>Acacia oxycedrus</i>	Spike Wattle
SS	<i>Tetralochea ciliata</i>	Pink-bells
SS	<i>Amperea xiphoclada</i> var. <i>xiphoclada</i>	Broom Spurge
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Olearia erubescens</i>	Moth Daisy-bush
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Styphelia adscendens</i>	Golden Heath
PS	r <i>Boronia nana</i> var. <i>pubescens</i>	Dwarf Boronia
MH	<i>Platysace heterophylla</i>	Slender Platysace
MH	<i>Viola hederacea</i> sensu Entwisle (1996)	Ivy-leaf Violet
MH	<i>Gonocarpus humilis</i>	Shade Raspwort
MH	<i>Drosera peltata</i> ssp. <i>auriculata</i>	Tall Sundew
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
LTG	<i>Lomandra longifolia</i> ssp. <i>exilis</i>	Cluster-headed Mat-rush
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Stylidium graminifolium</i> s.l.	Grass Trigger-plant
MTG	<i>Poa clelandii</i>	Noah's Ark
MTG	<i>Deyeuxia densa</i>	Heath Bent-grass
MNG	<i>Tetrarrhena distichophylla</i>	Hairy Rice-grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Cassytha pubescens</i> s.s.	Downy Dodder-laurel
SC	r <i>Billardiera bignoniacea</i>	Orange Bell-climber

## Recruitment:

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

## Organic Litter:

40 % cover

## Logs:

20 m/0.1 ha.

## Weediness:

There are no consistent weeds in this EVC.

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Greater Grampians bioregion

### EVC 47: Valley Grassy Forest

#### Description:

Valley Grassy Forest occurs under moderate rainfall regimes of 700-800 mm per annum on fertile well-drained colluvial or alluvial soils on gently undulating lower slopes and valley floors. Open forest to 25 m tall may carry a variety of eucalypts, usually species which prefer more moist or more fertile conditions over a sparse shrub cover. In season, a rich array of herbs, lilies, grasses and sedges dominate the ground layer but at the drier end of the spectrum the ground layer may be sparse and slightly less diverse, but with the moisture-loving species still remaining.

#### Large trees:

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

#### Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus obliqua</i>	Messmate Stringybark
	<i>Eucalyptus baxteri</i> s.l.	Brown Stringybark
r	<i>Eucalyptus alaticaulis</i>	Grampians Grey-gum

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	3	10%	T
Medium Shrub	10	20%	MS
Small Shrub	5	5%	SS
Prostrate Shrub	2	5%	PS
Large Herb	3	5%	LH
Medium Herb	16	20%	MH
Small or Prostrate Herb	5	5%	SH
Large Tufted Graminoid	3	5%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	8	15%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
Ground Fern	2	5%	GF
Scrambler or Climber	3	5%	SC
Bryophytes/Lichens	na	20%	BL

# EVC 47: Valley Grassy Forest - Greater Grampians bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Exocarpos cupressiformis</i>	Cherry Ballart
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Leptospermum scoparium</i>	Manuka
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Coprosma hirtella</i>	Rough Coprosma
SS	<i>Tetratheca ciliata</i>	Pink-bells
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Hovea heterophylla</i>	Common Hovea
SS	<i>Leucopogon virgatus</i>	Common Beard-heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
MH	<i>Drosera peltata</i> ssp. <i>auriculata</i>	Tall Sundew
MH	<i>Viola hederacea</i> sensu Entwisle (1996)	Ivy-leaf Violet
MH	<i>Veronica calycina</i>	Hairy Speedwell
MH	<i>Helichrysum scorpioides</i>	Button Everlasting
SH	r <i>Asperula minima</i>	Mossy Woodruff
SH	<i>Opercularia varia</i>	Variable Stinkweed
SH	<i>Drosera whittakeri</i> ssp. <i>aberrans</i>	Scented Sundew
SH	<i>Dichondra repens</i>	Kidney-weed
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MTG	<i>Carex breviculmis</i>	Common Grass-sedge
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Poa tenera</i>	Slender Tussock-grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
EP	<i>Amyema pendula</i>	Drooping Mistletoe
SC	<i>Comesperma volubile</i>	Love Creeper
SC	<i>Billardiera scandens</i>	Common Apple-berry
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily

## Recruitment:

Continuous

## Organic Litter:

40 % cover

## Logs:

20 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

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Greater Grampians 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> <i>Eucalyptus baxteri</i> s.l.	Messmate Stringybark Brown Stringybark

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	10	40%	MS
Small Shrub	10	20%	SS
Prostrate Shrub	3	5%	PS
Large Herb	1	1%	LH
Medium Herb	6	10%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	6	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

# EVC 48: Heathy Woodland - Greater Grampians bioregion

<b>LF Code</b>	<b>Species typical of at least part of EVC range</b>	<b>Common Name</b>
MS	<i>Leptospermum myrsinoides</i>	Heath Tea-tree
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Correa reflexa</i>	Common Correa
MS	<i>Epacris impressa</i>	Common Heath
SS	<i>Tetratheca ciliata</i>	Pink-bells
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>Acrotriche serrulata</i>	Honey-pots
PS	<i>Styphelia adscendens</i>	Golden Heath
PS	<i>Astroloma humifusum</i>	Cranberry Heath
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Burchardia umbellata</i>	Milkmaids
MH	<i>Goodenia geniculata</i>	Bent Goodenia
MH	<i>Drosera peltata ssp. auriculata</i>	Tall Sundew
SH	<i>Drosera whittakeri ssp. aberrans</i>	Scented Sundew
SH	<i>Opercularia varia</i>	Variable Stinkweed
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Lomandra sororia</i>	Small Mat-rush
MTG	<i>Lepidosperma semiteres</i>	Wire Rapier-sedge
MTG	<i>Dianella revoluta s.l.</i>	Black-anther Flax-lily
MTG	<i>Lomandra nana</i>	Dwarf Mat-rush
MNG	<i>Hypolaena fastigiata</i>	Tassel Rope-rush
SC	<i>Cassytha pubescens s.s.</i>	Downy Dodder-laurel
SC	<i>Cassytha glabella</i>	Slender Dodder-laurel
SC	<i>Grevillea aquifolium</i>	Variable Prickly Grevillea

## **Recruitment:**

Episodic/Fire. Desirable period between disturbances is 20 years.

## **Organic Litter:**

40 % cover

## **Logs:**

15 m/0.1 ha.

## **Weediness:**

There are no consistent weeds in this EVC.

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Greater Grampians 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 either Woolly Tea-tree *Leptospermum lanigerum* or Swamp Paperbark *Melaleuca ericifolia* which often form 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 – Greater Grampians 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

## Greater Grampians 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

#### Life Forms:

Life form	#Spp	%Cover	LF code
Immature Tree		5%	IT
Understorey Tree or Large Shrub	1	1%	T
Medium Shrub	1	5%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	1	1%	LH
Medium Herb	18	25%	MH
Small or Prostrate Herb	4	10%	SH
Large Tufted Graminoid	3	5%	LTG
Medium to Small Tufted Graminoid	15	40%	MTG
Medium to Tiny Non-tufted Graminoid	4	5%	MNG
Bryophytes/Lichens	na	10%	BL

#### LF Code

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

#### Common Name

SS	<i>Pimelea curviflora</i> s.l.	Curved Rice-flower
PS	<i>Pultenaea pedunculata</i>	Matted Bush-pea
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
MH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
MH	<i>Pelargonium rodneyanum</i>	Magenta Stork's-bill
MH	<i>Eryngium ovinum</i>	Blue Devil
MH	<i>Calocephalus citreus</i>	Lemon Beauty-heads
SH	<i>Drosera whittakeri</i> ssp. <i>aberrans</i>	Scented Sundew
SH	<i>Dichondra repens</i>	Kidneyweed
SH	<i>Solenogyne dominii</i>	Smooth Solenogyne
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
LTG	<i>Austrostipa mollis</i>	Supple 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>Poa sieberiana</i>	Grey Tussock-grass
MNG	<i>Microtis unifolia</i>	Common Onion-orchid
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
TTG	<i>Centrolepis aristata</i>	Pointed Centrolepis
SC	<i>Convolvulus erubescens</i> spp. agg.	Pink Bindweed
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily

# EVC 55: Plains Grassy Woodland - Greater Grampians bioregion

**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</i> var. <i>campestre</i>	Hop Clover	high	low
MH	<i>Trifolium subterraneum</i>	Subterranean Clover	high	low
MH	<i>Centaureum 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</i> spp.	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

## Greater Grampians 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
15%	<i>Eucalyptus camaldulensis</i> <i>Eucalyptus melliodora</i>	River Red-gum Yellow Box

#### Understorey:

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

# EVC 67: Alluvial Terraces Herb-rich Woodland - Greater Grampians 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>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Brachyloma daphnoides</i>	Daphne Heath
MS	<i>Leptospermum scoparium</i>	Manuka
SS	<i>Hibbertia fasciculata</i> var. <i>prostrata</i>	Bundled Guinea-flower
SS	<i>Hibbertia riparia</i>	Erect Guinea-flower
SS	<i>Hibbertia stricta</i> s.l.	Upright Guinea-flower
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
MH	<i>Hypericum gramineum</i>	Small St John's Wort
MH	<i>Drosera peltata</i> ssp. <i>peltata</i>	Pale Sundew
MH	<i>Poranthera microphylla</i>	Small Poranthera
SH	<i>Viola cleistogamoides</i>	Hidden Violet
SH	<i>Siloxerus multiflorus</i>	Small Wrinklewort
SH	<i>Drosera pygmaea</i>	Tiny Sundew
SH	<i>Solenogyne dominii</i>	Smooth Solenogyne
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
MTG	<i>Luzula meridionalis</i>	Common Woodrush
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MTG	<i>Juncus subsecundus</i>	Finger Rush
MTG	<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Triglochin nanum</i>	Dwarf Arrowgrass
TTG	<i>Centrolepis strigosa</i> ssp. <i>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:

10 % cover

## Logs:

15 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>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>Centaurium erythraea</i>	Common Centaury	high	low
MH	<i>Moenchia erecta</i>	Erect Chickweed	high	low
MH	<i>Parentucellia latifolia</i>	Red Bartsia	high	low
MH	<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	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
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

## Greater Grampians 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	30%	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>	Knead 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 - Greater Grampians 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	high	high
MS	<i>Genista monspessulana</i>	Montpellier Broom	high	high
MS	<i>Rosa rubiginosa</i>	Sweet Briar	high	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	low
LH	<i>Rumex conglomeratus</i>	Clustered Dock	high	low
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	low
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

## Greater Grampians 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 obliqua</i>	Messmate Stringybark
	<i>Eucalyptus melliodora</i>	Yellow Box
	<i>Eucalyptus sabulosa</i>	Wimmera Scentbark

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	6	10%	MS
Small Shrub	6	10%	SS
Prostrate Shrub	3	5%	PS
Large Herb	4	5%	LH
Medium Herb	15	25%	MH
Small or Prostrate Herb	5	10%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	8	15%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

# EVC 71: Hills Herb-rich Woodland - Greater Grampians 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>Banksia marginata</i>	Silver Banksia
MS	<i>Grevillea alpina</i>	Cat's Claw Grevillea
SS	<i>Astroloma conostephioides</i>	Flame Heath
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Leucopogon virgatus</i>	Common Beard-heath
SS	<i>Hibbertia stricta s.l.</i>	Upright Guinea-flower
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
PS	<i>Astroloma pinifolium</i>	Pine Heath
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Hypericum gramineum</i>	Small St John's Wort
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Viola cleistogamoides</i>	Hidden Violet
SH	<i>Phyllangium divergens</i>	Wiry Mitrewort
SH	<i>Drosera whittakeri ssp. aberrans</i>	Scented Sundew
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MTG	<i>Lomandra sororia</i>	Small Mat-rush
MTG	<i>Dianella revoluta s.l.</i>	Black-anther Flax-lily
MTG	<i>Lomandra nana</i>	Dwarf Mat-rush
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
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>Cassytha pubescens s.s.</i>	Downy Dodder-laurel
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily
SC	<i>Comesperma volubile</i>	Love Creeper
SC	<i>Drosera macrantha</i>	Climbing Sundew

## 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
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

## Greater Grampians 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 tricarinatus</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 – Greater Grampians 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

## Greater Grampians 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 - Greater Grampians 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 Greater Grampians bioregion

## EVC 136: Sedge Wetland

### Description:

Open woodland to 15 m tall. Occurs in small swamps or on seasonally inundated drainage lines. Swamp sites are most often permanent, but can dry in drought years or towards the end of summer. Usually devoid of a shrub layer, possibly due to the scouring action of flooding and lying water. The ground layer consists of sedges in patches and a diversity of aquatic and amphibious herbs and grasses.

### Large trees:

Species	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	80 cm	5 / ha

### Tree Canopy Cover:

%cover	Character Species	Common Name
10%	<i>Eucalyptus camaldulensis</i>	River Red-gum

### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	1	5%	MS
Large Herb	1	1%	LH
Medium Herb	1	1%	MH
Large Tufted Graminoid	1	1%	LTG
Large Non-tufted Graminoid	1	10%	LNG
Medium to Small Tufted Graminoid	2	15%	MTG
Medium to Tiny Non-tufted Graminoid	2	35%	MNG
Scrambler or Climber	1	5%	SC
<b>Total understorey projective foliage cover</b>		<b>70%</b>	

LF Code	Character Species	Common Name
MS	<i>Leptospermum obovatum</i>	River Tea-tree
LH	<i>Villarsia reniformis</i>	Running Marsh-flower
MH	<i>Poranthera microphylla</i>	Small Poranthera
MH	<i>Goodenia humilis</i>	Swamp Goodenia
LTG	<i>Baloskion tetraphyllum</i> ssp. <i>tetraphyllum</i>	Tassel Cord-rush
LTG	<i>Juncus pallidus</i>	Pale Rush
LNG	<i>Baumea rubiginosa</i> s.l.	Soft Twig-rush
MTG	<i>Juncus amabilis</i>	Hollow Rush
MTG	<i>Juncus holoschoenus</i>	Joint-leaf Rush
MTG	<i>Schoenus tesquorum</i>	Soft Bog-sedge
MTG	<i>Isolepis fluitans</i>	Floating Club-sedge
MNG	<i>Triglochin striatum</i>	Streaked Arrowgrass
MNG	<i>Eleocharis acuta</i>	Common Spike-sedge
MNG	<i>Baumea tetragona</i>	Square Twig-sedge
SC	<i>Cassytha pubescens</i> s.s.	Downy Dodder-laurel

### Recruitment:

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

### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
SH	<i>Callitriche hamulata</i>	Thread Water-starwort	high	high

# EVC 136: Sedge Wetland - Greater Grampians bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Greater Grampians bioregion

### EVC 165: Damp Heath Scrub

#### Description:

Shrubland to 3 m tall with occasional emergent eucalypts. Occurs on flat to gently sloping terrain, on or near coastal sites. Generally high rainfall and lack of drainage combine to retain high levels of moisture throughout the year.

#### Life forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	8	40%	MS
Small Shrub	5	10%	SS
Large Herb	1	1%	LH
Medium Herb	2	5%	MH
Large Tufted Graminoid	3	10%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	4	10%	MTG
Medium to Tiny Non-tufted Graminoid	3	30%	MNG
Bryophytes/Lichens	na	10%	BL

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>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Epacris impressa</i>	Common Heath
SS	<i>Dillwynia glaberrima</i>	Smooth Parrot-pea
SS	<i>Tetralochea ciliata</i>	Pink-bells
SS	<i>Hibbertia riparia</i>	Erect Guinea-flower
SS	<i>Leucopogon virgatus</i>	Common Beard-heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Selaginella uliginosa</i>	Swamp Selaginella
MH	<i>Craspedia glauca</i> spp. agg.	Common Billy-buttons
SH	<i>Lobelia pedunculata</i> s.l.	Matted Pratia
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
MTG	<i>Lepidosperma semiteres</i>	Wire Rapier-sedge
MTG	<i>Eurychorda complanata</i>	Flat Cord-rush
MTG	<i>Lomandra sororia</i>	Small Mat-rush
MTG	<i>Lepidosperma filiforme</i>	Common Rapier-sedge
MNG	<i>Hypolaena fastigiata</i>	Tassel Rope-rush
MNG	<i>Leptocarpus tenax</i>	Slender Twine-rush
MNG	<i>Lepyrodia muelleri</i>	Common Scale-rush
MNG	<i>Empodisma minus</i>	Spreading Rope-rush
TTG	<i>Schoenus breviculmis</i>	Matted Bog-sedge
SC	<i>Cassytha glabella</i>	Slender Dodder-laurel

#### Recruitment:

Episodic/Fire. Desirable period between disturbances is 20 years.

#### Organic Litter:

40 % cover

#### Weediness:

There are no consistent weeds in this EVC.

# EVC 165: Damp Heath Scrub - Greater Grampians bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Greater Grampians bioregion

### EVC 175: Grassy Woodland

#### Description:

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

#### 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 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	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 – Greater Grampians bioregion

**Recruitment:**

Continuous

**Organic Litter:**

20 % cover

**Logs:**

15 m/0.1 ha.

**Weediness:**

<b>LF Code</b>	<b>Typical Weed Species</b>	<b>Common Name</b>	<b>Invasive</b>	<b>Impact</b>
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

## Greater Grampians bioregion

### EVC 184: Montane Wet Heathland

#### Description:

A low, generally treeless heathland although sometimes emergent, stunted eucalypts are present. Occurs in wet soak depressions, narrow gullies or headwaters of creeks in the montane, high rainfall areas of the Major Mitchell Plateau in the Grampians. A dense, heathy shrub layer over a ground layer dominated by sedges and rushes.

#### Life forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	6	40%	MS
Small Shrub	2	5%	SS
Medium Herb	2	1%	MH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	4	20%	MTG
Medium to Tiny Non-tufted Graminoid	2	20%	MNG
Bryophytes/Lichens	na	20%	BL

#### LF Code

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

#### Common Name

MS	r	<i>Leptospermum turbinatum</i>	Shiny Tea-tree
MS		<i>Melaleuca squamea</i>	Swamp Honey-myrtle
MS		<i>Leptospermum continentale</i>	Prickly Tea-tree
MS		<i>Sprengelia incarnata</i>	Pink Swamp-heath
SS		<i>Dillwynia sericea</i> s.l.	Showy Parrot-pea
SS	R r	<i>Pultenaea subalpina</i>	Rosy Bush-pea
SS		<i>Boronia pilosa</i>	Hairy Boronia
MH		<i>Utricularia dichotoma</i> s.l.	Fairies' Aprons
LTG		<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
MTG		<i>Eurychorda complanata</i>	Flat Cord-rush
MTG		<i>Poa clelandii</i>	Noah's Ark
MTG		<i>Lepidosperma filiforme</i>	Common Rapier-sedge
MTG		<i>Amphipogon strictus</i> var. <i>setifer</i>	Grey-beard Grass
MNG		<i>Sporadanthus tasmanicus</i>	Branching Scale-rush
MNG		<i>Empodisma minus</i>	Spreading Rope-rush

#### Recruitment:

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

#### Organic Litter:

20% cover

#### Weediness:

There are no consistent weeds in this EVC.



# EVC 184: Montane Wet Heathland - Greater Grampians bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment Greater Grampians 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 and sometime dense areas of Coral Fern. Occurs along creeks and minor stream tributaries of the lowland plains.

### Canopy Cover:

%cover	Character Species	Common Name
50%	<i>Melaleuca squarrosa</i> <i>Leptospermum lanigerum</i>	Scented Paperbark Woolly Tea-tree

### Understorey:

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

# EVC 191: Riparian Scrub - Greater Grampians bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Sprengelia incarnata</i>	Pink Swamp-heath
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Acacia verticillata</i>	Prickly Moses
MS	<i>Acacia oxycedrus</i>	Spike Wattle
SS	<i>Tetratheca ciliata</i>	Pink-bells
SS	<i>Pultenaea dentata</i>	Clustered Bush-pea
LH	<i>Xyris operculata</i>	Tall Yellow-eye
MH	<i>Drosera binata</i>	Forked Sundew
MH	<i>Utricularia dichotoma s.l.</i>	Fairies' Aprons
MH	<i>Goodenia geniculata</i>	Bent Goodenia
MH	<i>Gonocarpus humilis</i>	Shade Raspwort
SH	<i>Mitrasacme pilosa</i>	Hairy Mitrewort
SH	<i>Gonocarpus micranthus ssp. micranthus</i>	Creeping Raspwort
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LTG	<i>Gymnoschoenus sphaerocephalus</i>	Button Grass
LTG	<i>Lepidosperma elatius</i>	Tall Sword-sedge
MTG	<i>Eurychorda complanata</i>	Flat Cord-rush
MTG	<i>Tetralia capillaris</i>	Hair Sedge
MTG	<i>Juncus planifolius</i>	Broad-leaf Rush
MNG	<i>Empodisma minus</i>	Spreading Rope-rush
MNG	<i>Baumea tetragona</i>	Square Twig-sedge
MNG	<i>Leptocarpus tenax</i>	Slender Twine-rush
MNG	<i>Schoenus lepidosperma</i>	Slender Bog-sedge
TTG	<i>Centrolepis fascicularis</i>	Tufted Centrolepis
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Cassytha glabella</i>	Slender Dodder-laurel
SC	<i>Grevillea aquifolium</i>	Variable Prickly Grevillea
SC	<i>Comesperma volubile</i>	Love Creeper
SC	<i>Gleichenia microphylla</i>	Scrambling Coral-fern
SC	<i>Gleichenia dicarpa</i>	Pouched Coral-fern

**Recruitment:**

Continuous

**Organic Litter:**

40 % cover

**Weediness:**

There are no consistent weeds in this EVC.

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Greater Grampians bioregion

### EVC 192: Montane Rocky Shrubland

#### Description:

Treeless or sparsely treed shrubland on well-drained skeletal sandy loams of rocky high altitude peaks in the Grampians Ranges. The shrub layer consists of a diversity of ericoid shrubs over a variable ground layer of restionaceous species, sedges and herbs.

#### Life forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	10	40%	MS
Small Shrub	4	10%	SS
Prostrate Shrub	1	1%	PS
Medium Herb	2	1%	MH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	4	5%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Epiphyte	1	1%	EP
Bryophytes/Lichens	na	20%	BL
<b>Total understorey projective foliage cover</b>		<b>60%</b>	

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Banksia saxicola</i>	Rock Banksia
MS	r <i>Acacia obliquinervia</i>	Mountain Hickory Wattle
MS	<i>Calytrix alpestris</i>	Snow Myrtle
MS	<i>Acacia oxycedrus</i>	Spike Wattle
SS	<i>Tetralthea ciliata</i>	Pink-bells
SS	R r <i>Pultenaea subalpina</i>	Rosy Bush-pea
SS	<i>Dillwynia sericea</i> s.l.	Showy Parrot-pea
SS	<i>Boronia pilosa</i>	Hairy Boronia
PS	<i>Astroloma pinifolium</i>	Pine Heath
MH	<i>Gonocarpus humilis</i>	Shade Raspwort
MH	<i>Drosera peltata</i> ssp. <i>auriculata</i>	Tall Sundew
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
MTG	<i>Eurychorda complanata</i>	Flat Cord-rush
MTG	<i>Poa sieberiana</i> var. <i>hirtella</i>	Grey Tussock-grass
MTG	<i>Poa clelandii</i>	Noah's Ark
MTG	<i>Stylidium graminifolium</i> s.l.	Grass Trigger-plant
EP	<i>Cassytha pubescens</i> s.s.	Downy Dodder-laurel

#### Recruitment:

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

#### Organic Litter:

40 % cover

#### Logs:

10 m/0.1 ha.

#### Weediness:

There are no consistent weeds in this EVC.

# EVC 192: Montane Rocky Shrubland - Greater Grampians bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Greater Grampians 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 Raspwort
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 - Greater Grampians bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Greater Grampians 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 melliodora</i>	Yellow Box
	<i>Eucalyptus viminalis</i> ssp. <i>cygnetensis</i>	Manna Gum
	<i>Eucalyptus camaldulensis</i>	River Red Gum

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	T
Medium Shrub	7	40%	MS
Small Shrub	6	20%	SS
Prostrate Shrub	1	1%	PS
Medium Herb	4	10%	MH
Small or Prostrate Herb	1	1%	SH
Medium to Small Tufted Graminoid	5	15%	MTG
Medium to Tiny Non-tufted Graminoid	2	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

MS	<i>Calytrix tetragona</i>	Common Fringe-myrtle
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Melaleuca decussata</i>	Totem-poles
MS	<i>Callistemon rugulosus</i>	Scarlet Bottlebrush
SS	<i>Hakea rostrata</i>	Beaked Hakea
SS	<i>Hibbertia riparia</i>	Upright Guinea-flower
SS	<i>Grevillea alpina</i>	Cat's Claws Grevillea
SS	<i>Astroloma conostephioides</i>	Flame Heath
PS	<i>Astroloma humifusum</i>	Cranberry Heath
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Acaena echinata</i>	Sheep's Burr
MH	<i>Hypericum gramineum</i>	Small St. John's-wort
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
MTG	<i>Lomandra sororia</i>	Small Mat-rush
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MTG	<i>Lepidosperma congestum</i>	Clustered Sword-sedge
MTG	<i>Lepidosperma carphoides</i>	Black Rapier-sedge
MNG	<i>Hypolaena fastigiata</i>	Tassel Rope-rush
MNG	<i>Chorizandra enodis</i>	Black Bristle-sedge

# EVC 195: Seasonally Inundated Shrubby Woodland - Greater Grampians bioregion

**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
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Greater Grampians bioregion

### EVC 198: Sedgy Riparian Woodland

#### Description:

Eucalypt forest or woodland to 15 m tall, with a 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 ovata</i> <i>Eucalyptus obliqua</i>	Swamp Gum Messmate Stringybark

#### Understorey:

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



# EVC 198: Sedgy Riparian Woodland - Greater Grampians 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
T	<i>Melaleuca squarrosa</i>	Scented Paperbark
T	<i>Leptospermum lanigerum</i>	Woolly Tea-tree
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Correa reflexa</i>	Common Correa
MS	<i>Leptospermum lanigerum</i>	Woolly Tea-tree
SS	<i>Tetratheca ciliata</i>	Pink-bells
PS	<i>Acrotriche serrulata</i>	Honey-pots
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Centella cordifolia</i>	Centella
MH	<i>Gratiola peruviana</i>	Austral Brooklime
MH	<i>Gonocarpus humilis</i>	Shade Raspwort
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LTG	<i>Carex appressa</i>	Tall Sedge
LTG	<i>Cyperus lucidus</i>	Leafy Flat-sedge
MTG	<i>Lepidosperma semiteres</i>	Wire Rapier-sedge
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MNG	<i>Baumea tetragona</i>	Square Twig-sedge
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Poa tenera</i>	Slender Tussock-grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Blechnum nudum</i>	Fishbone Water-fern
SC	<i>Cassytha pubescens</i> s.s.	Downy Dodder-laurel

**Recruitment:**

Continuous

**Organic Litter:**

30% 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 Greater Grampians bioregion

## EVC 278: Herb-rich Heathy Forest

### Description:

Eucalypt woodland or open-forest to 15 m tall generally with an understorey comprised of a range of heathy shrubs, subshrubs, grasses and herbs. Occurs on mineralised metamorphosed sandstone.

### 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 obliqua</i>	Messmate Stringybark
	<i>Eucalyptus baxteri</i> s.l.	Brown Stringybark
r	<i>Eucalyptus alaticaulis</i>	Grampians Grey-gum

### Understorey:

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

# EVC 278: Herb-rich Heathy Forest - Greater Grampians bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Acacia genistifolia</i>	Spreading Wattle
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Grevillea alpina</i>	Cat's Claw Grevillea
MS	<i>Acacia verniciflua</i>	Varnish Wattle
SS	<i>Leucopogon virgatus</i>	Common Beard-heath
SS	<i>Tetradlea ciliata</i>	Pink-bells
SS	<i>Astroloma conostephioides</i>	Flame Heath
SS	<i>Dillwynia glaberrima</i>	Smooth Parrot-pea
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Astroloma pinifolium</i>	Pine Heath
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
MH	<i>Drosera peltata</i> ssp. <i>auriculata</i>	Tall Sundew
MH	<i>Veronica calycina</i>	Hairy Speedwell
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Hypericum gramineum</i>	Small St John's Wort
SH	<i>Viola cleistogamoides</i>	Hidden Violet
SH	<i>Opecularia varia</i>	Variable Stinkweed
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	r <i>Asperula minima</i>	Mossy Woodruff
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Lepidosperma semiteres</i>	Wire Rapier-sedge
MTG	<i>Lomandra sororia</i>	Small Mat-rush
MTG	<i>Dianella revoluta</i> s.s.	Black-anther Flax-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Cassytha pubescens</i> s.s.	Downy Dodder-laurel
SC	<i>Comesperma volubile</i>	Love Creeper
SC	<i>Billardiera scandens</i>	Common Apple-berry

## Recruitment:

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

## Organic Litter:

40 % cover

## Logs:

20 m/0.1 ha.

## Weediness:

There are no consistent weeds in this EVC.

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Greater Grampians 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

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 ssp. 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 s.l.</i>	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 s.l.</i>	Pale Mat-rush
MTG	<i>Dianella revoluta s.l.</i>	Black-anther Flax-lily
MNG	<i>Leptocarpus tenax</i>	Slender Twine-rush
MNG	<i>Hypolaena fastigiata</i>	Tassel Rope-rush
TTG	<i>Centrolepis strigosa ssp. strigosa</i>	Hairy Centrolepis
SC	<i>Cassytha pubescens s.s.</i>	Downy Dodder-laurel
SC	<i>Cassytha glabella</i>	Slender Dodder-laurel
SC	<i>Grevillea aquifolium</i>	Variable Prickly Grevillea

# EVC 279: Heathland Thicket - Greater Grampians 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

## Greater Grampians 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 - Greater Grampians 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

## Greater Grampians 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

#### 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</i> ssp. <i>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</i> s.s.	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</i> ssp. <i>multiflora</i>	Many-flowered Mat-rush
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Leptocarpus tenax</i>	Slender Twine-rush

# EVC 282: Shrubby Woodland - Greater Grampians bioregion

**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

## Greater Grampians 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

#### 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

#### 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 – Greater Grampians 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</i> s.l.	Fairies' Aprons
MH	<i>Drosera peltata</i> ssp. <i>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</i> s.l.	Soft Twig-rush
MTG	<i>Lepidosperma congestum</i>	Clustered Sword-sedge
MTG	<i>Austroanthonia setacea</i>	Bristly Wallaby-grass
MTG	<i>Lachnagrostis filiformis</i> var. <i>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</i> ssp. <i>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 Greater Grampians bioregion

## EVC 284: Claypan Ephemeral Wetland

### Description:

Herb-dominated vegetation occurring in shallow seasonally inundated depressions on cracking silty clays (within Alluvial Terraces Herb-rich Woodland), with a range of small herbs indicative of wetness.

### Life Forms:

Life form	#Spp	%Cover	LF code
Medium Herb	3	20%	MH
Small Herb	7	15%	SH
Medium to Small Tufted Graminoid	4	20%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Soil Crust	na	10%	S/C
<b>Total understorey projective foliage cover</b>		<b>65%</b>	

### LF Code

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

### Common Name

MH	<i>Myriophyllum simulans</i>	Amphibious Water-milfoil
MH	<i>Centipeda cunninghamii</i>	Common Sneezeweed
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Lobelia surrepens</i>	Mud Pratia
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MNG	<i>Distichlis distichophylla</i>	Australian Salt-grass

### 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>Cirsium vulgare</i>	Spear Thistle	high	low
MH	<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Greater Grampians 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 - Greater Grampians bioregion

**Recruitment:**

Continuous

**Organic Litter:**

20 % cover

**Logs:**

20 m/0.1 ha.

**Weediness:**

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

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Greater Grampians 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 tricarinatus 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 – Greater Grampians 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

## Greater Grampians 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 – Greater Grampians 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

## Greater Grampians 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
10%	<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	2	10%	MS
Small Shrub	1	1%	SS
Large Herb	4	10%	LH
Medium Herb	5	10%	MH
Small or Prostrate Herb	1	5%	SH
Large Tufted Graminoid	3	10%	LTG
Medium to Small Tufted Graminoid	4	30%	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
MS	<i>Viminaria juncea</i>	Golden Spray
MS	<i>Melaleuca decussata</i>	Totem-poles
SS	<i>Rubus parvifolius</i>	Small-leaf Bramble
LH	<i>Wahlenbergia gracilis</i> s.s.	Sprawling Bluebell
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
LTG	<i>Cyperus gunnii</i> ssp. <i>gunnii</i>	Flecked Flat-sedge
LTG	<i>Carex appressa</i>	Tall Sedge
MTG	<i>Lachnagrostis filiformis</i> var. <i>filiformis</i>	Common Blown-grass
MTG	<i>Juncus amabilis</i>	Hollow Rush
MNG	<i>Eleocharis acuta</i>	Common Spike-sedge
SC	<i>Calystegia sepium</i>	Large Bindweed

#### Recruitment:

Continuous

#### Organic Litter:

30% cover

#### Logs:

20m / 0.1 ha



# EVC 641: Riparian Woodland – Greater Grampians bioregion

## 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	low
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

## Greater Grampians bioregion

### EVC 642: Basalt Shrubby Woodland

#### Description:

Eucalypt-dominated woodland to 15 m tall with an understorey of shrubs and grasses, presumed originally quite species-rich. Occurs on well-drained to seasonally damp fertile soils in higher rainfall areas of volcanic plain.

#### 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 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	2	10%	T
Medium Shrub	2	5%	MS
Prostrate Shrub	2	1%	PS
Large Herb	2	1%	LH
Medium Herb	10	15%	MH
Small or Prostrate Herb	5	10%	SH
Large Tufted Graminoid	3	5%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	10	25%	MTG
Medium to Tiny Non-tufted Graminoid	3	10%	MNG
Ground Fern	1	15%	GF
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

#### 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 continentale</i>	Prickly Tea-tree
MS	<i>Acacia verticillata</i>	Prickly Moses
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Senecio glomeratus</i>	Annual Fireweed
MH	<i>Drosera peltata</i> ssp. <i>auriculata</i>	Tall Sundew
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
SH	<i>Oxalis exilis</i>	Shady Wood-sorrel
SH	<i>Kennedia prostrata</i>	Running Postman
SH	<i>Lobelia pedunculata</i> s.l.	Matted Pratia
SH	<i>Leptostigma reptans</i>	Dwarf Nertera
LTG	<i>Austrostipa pubinodis</i>	Tall Spear-grass
LTG	<i>Lepidosperma elatius</i>	Tall Sword-sedge
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
MTG	<i>Dichelachne rara</i>	Common Plume-grass
MTG	<i>Lomandra filiformis</i> ssp. <i>filiformis</i>	Wattle Mat-rush
MTG	<i>Dichelachne crinita</i>	Long-hair Plume-grass
MTG	<i>Austrodanthonia pilosa</i>	Velvet Wallaby-grass
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 642: Basalt Shrubby Woodland – Greater Grampians bioregion

**Recruitment:**

Continuous

**Organic Litter:**

20 % cover

**Logs:**

15 m/0.1 ha.

**Weediness:**

LF Code	Typical Weed Species	Common Name	Invasive	Impact
T	<i>Pinus radiata</i>	Radiata Pine	high	high
LH	<i>Centaurium tenuiflorum</i>	Slender Centaury	high	low
LH	<i>Plantago lanceolata</i>	Ribwort	high	low
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Centaurium erythraea</i>	Common Centaury	high	low
MH	<i>Gamochaeta purpurea s.s.</i>	Spiked Cudweed	high	low
MH	<i>Leontodon taraxacoides ssp. taraxacoides</i>	Hairy Hawkbit	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Cynosurus echinatus</i>	Rough Dog's-tail	high	low
SNG	<i>Sisyrinchium iridifolium</i>	Blue Pigroot	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Greater Grampians 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	5	40%	MH
Small or Prostrate Herb	5	10%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	4	25%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG

LF Code	Species typical of at least part of EVC range	Common Name
LH	<i>Epilobium billardierianum</i>	Variable Willow-herb
MH	<i>Potamogeton tricarinatus</i> s.l.	Floating Pondweed
MH	<i>Myriophyllum simulans</i>	Amphibious Water-milfoil
MH	<i>Stellaria angustifolia</i>	Swamp Starwort
MH	<i>Lilaeopsis polyantha</i>	Australian Lilaeopsis
SH	<i>Neopaxia australasica</i>	White Purslane
SH	<i>Lobelia pratioides</i>	Poison Lobelia
SH	<i>Eryngium vesiculosum</i>	Prickfoot
LTG	<i>Carex tereticaulis</i>	Hollow Sedge
MTG	k <i>Lachnagrostis filiformis</i> (perennial variety)	Wetland Blown-grass
MTG	<i>Lachnagrostis filiformis</i>	Common Blown-grass
MTG	<i>Glyceria australis</i>	Australian Sweet-grass
MNG	<i>Eleocharis acuta</i>	Common Spike-sedge
MNG	v <i>Amphibromus sinuatus</i>	Wavy Swamp Wallaby-grass

#### 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:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MTG	<i>Juncus bulbosus</i>	Bulbous Rush	high	high

# EVC 647: Plains Sedgy Wetland – Greater Grampians bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Greater Grampians 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 tricarinatus 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 pratioides</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 – Greater Grampians bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Greater Grampians 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 leucoxyton</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 - Greater Grampians 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 alopecuroidea</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 Greater Grampians bioregion

## EVC 709: Scree-slope Woodland

### Description:

Eucalypt woodland to 15 m tall with an open shrub layer over a grassy ground layer with small sandstone boulders. Occurs on scree slopes at the base of cliffs where soils are generally shallow and the exposed rocky conditions result in relatively dry well-drained conditions.

### Large trees:

Species	DBH(cm)	#/ha
<i>Callitris</i> spp.	40 cm	

### Tree Canopy Cover:

% cover	Character Species	Common Name
20%	<i>Callitris gracilis</i> ssp. <i>murrayensis</i>	Slender Cypress-pine

### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	2	10%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	2	5%	PS
Large Herb	3	10%	LH
Medium Herb	4	5%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	5	25%	MTG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
<b>Total understorey projective foliage cover</b>		<b>80%</b>	

### Recruitment:

Continuous

### Organic Litter:

15% cover

### Logs:

20m/0.1 ha.



# EVC 709: Scree-slope Woodland – Greater Grampians bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Dodonaea viscosa</i>	Sticky Hop-bush
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Wahlenbergia gracilis</i> s.l.	Sprawling Bluebell
LH	<i>Wahlenbergia stricta</i> s.l.	Tall Bluebell
MH	<i>Plantago hispida</i>	Hairy plantain
MH	<i>Gonocarpus elatus</i>	Tall Raspwort
MH	<i>Galium gaudichaudii</i>	Rough Bedstraw
MH	<i>Daucus glochidiatus</i>	Austral Carrot
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Austrostipa scabra</i>	Rough Spear-grass
MTG	<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass
SC	<i>Glycine clandestina</i>	Twining Glycine

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
T	<i>Olea europaea</i>	Olive	high	high
MS	<i>Lycium ferocissimum</i>	Boxthorn	high	high
LH	<i>Centaurium tenuiflorum</i>	Slender Centaury	high	low
LH	<i>Gazania linearis</i>	Gazania	high	high
LH	<i>Opuntia robusta</i>	Wheel Cactus	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Trifolium campestre</i> var. <i>campestre</i>	Hop Clover	high	low
MH	<i>Trifolium angustifolium</i> var. <i>angustifolium</i>	Narrow-leaf Clover	high	low
MH	<i>Trifolium arvense</i> var. <i>arvense</i>	Hare's-foot Clover	high	low
MH	<i>Petrorhagia velutina</i>	Velvety Pink	high	low
MH	<i>Oxalis pes-caprae</i>	Soursob	high	high
MH	<i>Silene gallica</i>	French Catchfly	high	high
MH	<i>Petrorhagia velutina</i>	Velvety Pink	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Briza maxima</i>	Large 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>Lolium rigidum</i>	Wimmera Rye-grass	high	low
LNG	<i>Avena fatua</i>	Wild Oat	high	high
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Ehrharta calycina</i>	Perennial Veldt Grass	high	high
MNG	<i>Vulpia myuros</i> f. <i>myuros</i>	Rat's-tail Fescue	high	high
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low
MNG	<i>Bromus rubens</i>	Red Brome	high	low
TTG	<i>Poa bulbosa</i>	Bulbous Meadow-grass	high	high
SC	<i>Asparagus asparagoides</i>	Bridal Creeper	high	high

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Greater Grampians 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
MH	<i>Selaginella uliginosa</i>	Swamp Selaginella
SH	<i>Drosera pygmaea</i>	Tiny Sundew
LTG	<i>Gahnia siberiana</i>	Red-fruit Saw-sedge
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 tetragona</i>	Square 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 – Greater Grampians bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment Greater Grampians 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

### Recruitment:

Continuous

### Organic Litter:

20 % cover

### Logs:

10 m/0.1 ha.

# EVC 803: Plains Woodland – Greater Grampians 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>Austrodanthonia setacea</i>	Bristly Wallaby-grass
MTG	<i>Dianella revoluta</i> s.s.	Black-anther Flax-lily
MTG	<i>Austrodanthonia 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

## Greater Grampians 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.

#### 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>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>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 821: Tall Marsh – Greater Grampians bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Greater Grampians 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 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	5	20%	MS
Small Shrub	6	15%	SS
Prostrate Shrub	3	5%	PS
Large Herb	3	5%	LH
Medium Herb	19	20%	MH
Small or Prostrate Herb	4	5%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	13	20%	MTG
Medium to Tiny Non-tufted Graminoid	4	5%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

# EVC 882: Shallow Sands Woodland - Greater Grampians bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Allocasuarina verticillata</i>	Drooping Sheoke
MS	<i>Calytrix tetragona</i>	Common Fringe-myrtle
MS	<i>Leptospermum myrsinoides</i>	Heath Tea-tree
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Acacia verticillata</i>	Prickly Moses
SS	<i>Hibbertia stricta s.l.</i>	Upright Guinea-flower
SS	<i>Astroloma conostephioides</i>	Flame Heath
SS	<i>Isopogon ceratophyllus</i>	Horny Cone-bush
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>Drosera peltata ssp. peltata</i>	Pale Sundew
MH	<i>Acaena echinata</i>	Sheep's Burr
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Siloxerus multiflorus</i>	Small Wrinklewort
SH	<i>Phyllangium divergens</i>	Wiry Mitrewort
SH	<i>Kennedia prostrata</i>	Running Postman
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
LTG	r <i>Xanthorrhoea caespitosa</i>	Tufted Grass-tree
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MTG	<i>Austroanthonia geniculata</i>	Kneed Wallaby-grass
MTG	<i>Lepidosperma carphoides</i>	Black Rapier-sedge
MTG	<i>Neurachne alopecuroidea</i>	Fox-tail Mulga-grass
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
MNG	<i>Microtis unifolia</i>	Common Onion-orchid
TTG	<i>Centrolepis aristata</i>	Pointed Centrolepis
TTG	<i>Centrolepis strigosa ssp. strigosa</i>	Hairy Centrolepis
TTG	<i>Aphelia pumilio</i>	Dwarf Aphelia
TTG	<i>Schoenus breviculmis</i>	Matted Bog-sedge
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>Trifolium campestre var. campestre</i>	Hop Clover	high	low
MH	<i>Centaureum erythraea</i>	Common Centaury	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MH	<i>Cicendia filiformis</i>	Slender Cicendia	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Aira caryophyllea</i>	Silvery Hair-grass	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low

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