

# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands 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 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	3	10%	MS
Small Shrub	3	5%	SS
Medium Herb	16	20%	MH
Small or Prostrate Herb	7	15%	SH
Large Tufted Graminoid	1	10%	LTG
Medium to Small Tufted Graminoid	10	15%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
Ground Fern	1	10%	GF
Bryophytes/Lichens	na	10%	BL

## EVC 3: Damp Sands Herb-rich Woodland – Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia mearnsii</i>	Black Wattle
MS	<i>Bursaria spinosa</i>	Sweet Bursaria
MS	<i>Acacia verticillata</i>	Prickly Moses
MS	<i>Ozothamnus ferrugineus</i>	Tree Everlasting
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Lissanthe strigosa</i> ssp. <i>subulata</i>	Peach Heath
SS	<i>Hibbertia riparia</i>	Erect Guinea-flower
MH	<i>Geranium solanderi</i> s.l.	Austral Cranesbill
MH	<i>Drosera peltata</i> ssp. <i>auriculata</i>	Tall Sundew
MH	<i>Hydrocotyle foveolata</i>	Yellow Pennywort
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
SH	<i>Drosera whittakeri</i> ssp. <i>aberrans</i>	Scented Sundew
SH	<i>Oxalis exilis</i>	Shady Wood-sorrel
SH	<i>Viola cleistogamoides</i>	Hidden Violet
SH	<i>Opercularia ovata</i>	Broad-leaf Stinkweed
LTG	<i>Austrostipa rudis</i> ssp. <i>nervosa</i>	Veined Spear-grass
LTG	<i>Juncus pallidus</i>	Pale Rush
MTG	<i>Poa sieberiana</i> var. <i>sieberiana</i>	Grey Tussock-grass
MTG	<i>Lomandra filiformis</i> ssp. <i>coriacea</i>	Wattle Mat-rush
MTG	<i>Austrodanthonia racemosa</i> var. <i>racemosa</i>	Striped Wallaby-grass
MTG	<i>Lomandra filiformis</i>	Wattle 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.

### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
T	<i>Pinus radiata</i>	Radiata Pine	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
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high
MTG	<i>Juncus microcephalus</i>	Tiny-headed Rush	low	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MNG	<i>Aira caryophylla</i>	Silvery Hair-grass	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 6: Sand Heathland

#### Description:

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

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

#### Large trees<sup>+</sup>:

Species	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	50 cm	15 / ha

#### Tree Canopy Cover<sup>+</sup>:

%cover	Character Species	Common Name
10%	<i>Eucalyptus obliqua</i>	Messmate

#### Life Forms:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree <sup>+</sup>		5%	IT
Medium Shrub	6	30%	MS
Small Shrub	8	20%	SS
Prostrate Shrub	3	5%	PS
Medium Herb	3	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	6	15%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	1	1%	GF
Scrambler or Climber	3	5%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

# EVC 6: Sand Heathland – Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Aotus ericoides</i>	Common Aotus
MS	<i>Leptospermum myrsinoides</i>	Heath Tea-tree
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
SS	<i>Platylobium obtusangulum</i>	Common Flat-pea
SS	<i>Isopogon ceratophyllus</i>	Horny Cone-bush
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Tetratheca ciliata</i>	Pink-bells
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Gompholobium ecostatum</i>	Dwarf Wedge-pea
PS	<i>Astroloma humifusum</i>	Cranberry Heath
MH	<i>Chamaescilla corymbosa</i>	Blue Squill
MH	<i>Goodenia geniculata</i>	Bent Goodenia
MH	<i>Drosera peltata</i> ssp. <i>auriculata</i>	Tall Sundew
SH	<i>Viola cleistogamoides</i>	Hidden Violet
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
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 filiformis</i>	Wattle Mat-rush
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MTG	r <i>Lepidosperma canescens</i>	Hoary Rapier-sedge
MTG	<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass
MNG	<i>Hypolaena fastigiata</i>	Tassel Rope-rush
TTG	<i>Schoenus breviculmis</i>	Matted Bog-sedge
GF	<i>Lindsaea linearis</i>	Screw Fern
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

## 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

## Central Victorian Uplands bioregion

### EVC 7: Clay Heathland

#### Description:

Occurs on sites with impeded drainage, often on duplex soils. Dominated by heathy shrub species with occasional emergent eucalypts. The ground layer is dense and diverse with a variety of landforms.

+ woodland only components (ignore when assessing treeless areas and standardise final score as appropriate)

#### Large trees<sup>+</sup>:

Species	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	40 cm	10 / ha

#### Tree Canopy Cover<sup>+</sup>:

%cover	Character Species	Common Name
10%	<i>Eucalyptus dives</i>	Broad-leaved Peppermint
	<i>Eucalyptus macrorhyncha</i>	Red Stringybark
	<i>Eucalyptus mannifera</i>	Brittle Gum

#### Understorey:

Life form	#Spp	%Cover	LF code
Medium Shrub	9	30%	MS
Small Shrub	6	10%	SS
Prostrate Shrub	3	5%	PS
Medium Herb	8	10%	MH
Large Tufted Graminoid	4	10%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	7	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
SS	<i>Kunzea parvifolia</i>	Violet Kunzea
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Gompholobium huegelii</i>	Common Wedge-pea
SS	<i>Dillwynia phyllicoides</i>	Small-leaf Parrot-pea
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
PS	<i>Pultenaea procumbens</i>	Heathy Bush-pea
PS	<i>Boronia nana</i>	Dwarf Boronia
MH	<i>Lagenophora gracilis</i>	Slender Bottle-daisy
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Hypericum gramineum</i>	Small St John's Wort
MH	<i>Viola betonicifolia</i> ssp. <i>betonicifolia</i>	Showy Violet
SH	<i>Mitrasacme serpyllifolia</i>	Thyme Mitrewort
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
LTG	<i>Xanthorrhoea minor</i> ssp. <i>lutea</i>	Small Grass-tree
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Caustis flexuosa</i>	Curly Wig
MNG	<i>Echinopogon ovatus</i>	Common Hedgehog-grass

# EVC 7: Clay Heathland - Central Victorian Uplands 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>Hypochoeris radicata</i>	Cat's Ear	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 16: Lowland Forest

#### Description:

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

#### Large trees:

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

#### Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus goniacalyx</i> s.l	Bundy
	<i>Eucalyptus baxteri</i> s.l	Brown Stringybark
	<i>Eucalyptus polyanthemos</i>	Red Box
	<i>Eucalyptus obliqua</i>	Messmate Stringybark
	<i>Eucalyptus consideniana</i>	Yertchuk

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	6	20%	MS
Small Shrub	5	15%	SS
Prostrate Shrub	2	5%	PS
Large Herb	2	5%	LH
Medium Herb	7	20%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	10%	LNG
Medium to Small Tufted Graminoid	6	20%	MTG
Medium to Tiny Non-tufted Graminoid	2	1%	MNG
Bryophytes/Lichens	na	10%	BL

## EVC 16: Lowland Forest – Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Acacia pycnantha</i>	Golden Wattle
MS	<i>Monotoca scoparia</i>	Prickly Broom-heath
MS	<i>Hakea sericea s.l.</i>	Bushy Needlewood
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Platylobium obtusangulum</i>	Common Flat-pea
SS	<i>Pultenaea humilis</i>	Dwarf Bush-pea
SS	<i>Pultenaea gunnii ssp. gunnii</i>	Golden Bush-pea
PS	<i>Pultenaea pedunculata</i>	Matted Bush-pea
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
LH	<i>Senecio minimus</i>	Shrubby Fireweed
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Hypericum gramineum</i>	Small St John's Wort
MH	<i>Brachyscome multifida</i>	Cut-leaf Daisy
SH	<i>Opercularia varia</i>	Variable Stinkweed
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
MTG	<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass
MTG	<i>Lomandra multiflora ssp. multiflora</i>	Many-flowered Mat-rush
MTG	<i>Dichelachne sciurea spp. agg.</i>	Short-hair Plume-grass
MTG	<i>Poa australis spp. agg.</i>	Tussock Grass
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
MNG	<i>Luzula campestris spp. agg.</i>	Field Woodrush
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

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 18: Riparian Forest

#### Description:

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

#### 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 radiata</i> ssp. <i>radiata</i>	Narrow-leaf Peppermint
	<i>Eucalyptus viminalis</i>	Manna Gum
	<i>Eucalyptus globulus</i> ssp. <i>bicostata</i>	Eurabbie

#### Understorey:

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

# EVC 18: Riparian Forest – Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Pomaderris aspera</i>	Hazel Pomaderris
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Prostanthera lasianthos</i>	Victorian Christmas-bush
MS	<i>Olearia lirata</i>	Snowy Daisy-bush
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Cassinia aculeata</i>	Common Cassinia
PS	<i>Acrotriche prostrata</i>	Trailing Ground-berry
LH	<i>Senecio minimus</i>	Shrubby Fireweed
LH	<i>Senecio linearifolius</i>	Fireweed Groundsel
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
MH	<i>Stellaria pungens</i>	Prickly Starwort
MH	<i>Geranium potentilloides</i>	Cinquefoil Cranesbill
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Lobelia pedunculata</i> s.l.	Matted Pratia
SH	<i>Leptinella filicula</i>	Mountain Cotula
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Carex appressa</i>	Tall Sedge
LTG	<i>Lepidosperma elatius</i>	Tall Sword-sedge
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Isolepis inundata</i>	Swamp Club-sedge
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Poa tenera</i>	Slender Tussock-grass
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Blechnum nudum</i>	Fishbone Water-fern
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Adiantum aethiopicum</i>	Common Maidenhair
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
MS	<i>Rubus fruticosus</i> spp. agg.	Blackberry	high	high
LH	<i>Sonchus asper</i> s.l.	Rough 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>Prunella vulgaris</i>	Self-heal	high	high
MH	<i>Centaurium erythraea</i>	Common Centaury	low	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 19: Riparian Shrubland

#### Description:

Diverse, medium to tall shrubland to 8 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 species which survive on the bare sands or in rock crevice.

#### Canopy Cover:

%cover  
40%

#### Character Species

*Acacia melanoxylon*  
*Leptospermum grandifolium*

#### Common Name

Blackwood  
Mountain Tea-tree

#### Understorey:

##### Life form

Medium Shrub  
Medium Herb  
Large Tufted Graminoid  
Medium to Small Tufted Graminoid  
Medium to Tiny Non-tufted Graminoid  
Ground Fern  
Tree Fern  
Scrambler or Climber  
Bryophytes/Lichens  
**Total understorey projective foliage cover**

##### #Spp

9  
2  
1  
4  
1  
4  
2  
2  
na

##### %Cover

30%  
5%  
10%  
5%  
1%  
10%  
1%  
5%  
20%  
**60%**

##### LF code

MS  
MH  
LTG  
MTG  
MNG  
GF  
TRF  
SC  
BL

## EVC 19: Riparian Shrubland – Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Hedycarya angustifolia</i>	Austral Mulberry
MS	<i>Kunzea ericoides</i>	Burgan
MS	<i>Micrantheum hexandrum</i>	Box Micrantheum
MH	<i>Euchiton collinus s.l.</i>	Clustered/Creeping Cudweed
LTG	<i>Carex appressa</i>	Tall Sedge
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Poa ensiformis</i>	Sword Tussock-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
GF	<i>Calochlaena dubia</i>	Common Ground-fern
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Blechnum minus</i>	Soft Water-fern
TRF	<i>Todea barbara</i>	Austral King-fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
SC	<i>Pandorea pandorana</i>	Wonga Vine

### Recruitment:

Continuous

### Organic Litter:

40% cover

### Logs:

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

### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Rubus fruticosus spp. agg.</i>	Blackberry	high	high

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands 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 to 20 m tall, poor in form 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 macrorhyncha</i>	Red Stringybark
	<i>Eucalyptus dives</i>	Broad-leaved Peppermint
	<i>Eucalyptus polyanthemos</i>	Red Box
	<i>Eucalyptus goniocalyx</i> s.l.	Long-leaf Box
	<i>Eucalyptus mannifera</i> ssp. <i>mannifera</i>	Brittle Gum

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	6	30%	MS
Small Shrub	5	20%	SS
Prostrate Shrub	1	1%	PS
Medium Herb	3	5%	MH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	4	20%	MTG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
<b>Total understorey projective foliage cover</b>		<b>80%</b>	



## EVC 20: Heathy Dry Forest – Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Pultenaea gunnii</i>	Golden Bush-pea
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Monotoca scoparia</i>	Prickly Broom-heath
SS	<i>Platylobium obtusangulum</i>	Common Flat-pea
SS	<i>Hovea heterophylla</i>	Common Hovea
SS	<i>Pultenaea humilis</i>	Dwarf Bush-pea
SS	<i>Leucopogon virgatus</i> var. <i>virgatus</i>	Common Beard-heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Drosera peltata</i> ssp. <i>auriculata</i>	Tall Sundew
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Joycea pallida</i>	Silvertop Wallaby-grass

**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

## Central Victorian Uplands bioregion

### EVC 21: Shrubby Dry Forest

#### Description:

Occurs on a range of geologies on exposed aspects such as ridge-lines and medium to steep upper slopes, often in high rainfall areas and on shallow infertile soils. The overstorey is a low, open forest to 25 m tall characterised by the diversity and variability of the eucalypts. The understorey often lacks a secondary tree layer but contains a well-developed medium to low shrub layer. The ground layer is often very sparse with tussock-forming graminoids being the dominant life form.

#### 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 cypellocarpa</i>	Mountain Grey-gum
	<i>Eucalyptus obliqua</i>	Messmate Stringybark

#### Life Forms:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	4	20%	MS
Small Shrub	3	10%	SS
Prostrate Shrub	1	1%	PS
Large Herb	1	1%	LH
Medium Herb	2	5%	MH
Large Tufted Graminoid	1	15%	LTG
Medium to Small Tufted Graminoid	2	10%	MTG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
<b>Total understorey projective foliage cover</b>		<b>75%</b>	

## EVC 21: Shrubby Dry Forest – Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Spyridium parvifolium</i>	Dusty Miller
MS	<i>Acacia myrtifolia</i>	Myrtle Wattle
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Hakea sericea s.l.</i>	Bushy Needlewood
SS	<i>Hibbertia stricta s.l.</i>	Upright Guinea-flower
SS	<i>Platylobium obtusangulum</i>	Common Flat-pea
SS	<i>Isopogon ceratophyllus</i>	Horny Cone-bush
SS	<i>Pultenaea humilis</i>	Dwarf Bush-pea
PS	<i>Acrotriche serrulata</i>	Honey-pots
MH	<i>Drosera peltata ssp. auriculata</i>	Tall Sundew
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
MTG	<i>Lepidosperma semiteres</i>	Wire Rapier-sedge
MTG	<i>Poa australis spp. agg.</i>	Tussock Grass

**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

## Central Victorian Uplands bioregion

### EVC 22: Grassy Dry Forest

#### Description:

Occurs on a variety of gradients and altitudes and on a range of geologies. The overstorey is dominated by a low to medium height forest of eucalypts to 20m 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, often including a suite of fern species.

#### 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 macrorhyncha</i>	Red Stringybark
	<i>Eucalyptus goniocalyx</i> s.l.	Bundy
	<i>Eucalyptus obliqua</i>	Messmate Stringybark

#### Understorey:

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

## EVC 22: Grassy Dry Forest – Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
MS	<i>Epacris impressa</i>	Common Heath
SS	<i>Hovea heterophylla</i>	Common Hovea
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Acacia aculeatissima</i>	Thin-leaf Wattle
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
MH	<i>Hypericum gramineum</i>	Small St John's Wort
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Goodenia lanata</i>	Trailing Goodenia
MTG	<i>Joycea pallida</i>	Silvertop Wallaby-grass
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Dianella revoluta s.l.</i>	Black-anther Flax-lily
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Hardenbergia violacea</i>	Purple Coral-pea

### 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
MTG	<i>Briza maxima</i>	Large 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

## Central Victorian Uplands 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 25m 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 globulus</i> ssp. <i>bicostata</i>	Eurabbie
	<i>Eucalyptus obliqua</i>	Messmate Stringybark
	<i>Eucalyptus dives</i>	Broad-leaved Peppermint

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	3	5%	MS
Small Shrub	2	1%	SS
Prostrate Shrub	1	1%	PS
Large Herb	4	5%	LH
Medium Herb	11	25%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	6	20%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	2	10%	GF
Scrambler or Climber	3	5%	SC
Bryophytes/Lichens	na	20%	BL

# EVC 23: Herb-rich Foothill Forest – Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
SS	<i>Hovea heterophylla</i>	Common Hovea
PS	<i>Acrotriche prostrata</i>	Trailing Ground-berry
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Senecio minimus</i>	Shrubby Fireweed
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
MH	<i>Stellaria pungens</i>	Prickly Starwort
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG	<i>Lomandra longifolia ssp. longifolia</i>	Spiny-headed Mat-rush
MTG	<i>Lomandra filiformis ssp. coriacea</i>	Wattle Mat-rush
MTG	<i>Luzula meridionalis var. flaccida</i>	Common Woodrush
MTG	<i>Austrodanthonia pilosa</i>	Velvet Wallaby-grass
MTG	<i>Poa ensiformis</i>	Sword Tussock-grass
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
MNG	<i>Poa tenera</i>	Slender Tussock-grass
MNG	<i>Echinopogon ovatus</i>	Common Hedgehog-grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Asplenium flabellifolium</i>	Necklace Fern
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Glycine clandestina</i>	Twining Glycine
SC	<i>Billardiera scandens var. scandens</i>	Common Apple-berry
SC	<i>Hardenbergia violacea</i>	Purple Coral-pea

**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>Centaureum erythraea</i>	Common Centaury	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 28: Rocky Outcrop Shrubland

#### Description:

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

#### Life forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	7	25%	MS
Small Shrub	2	5%	SS
Large Herb	2	5%	LH
Medium Herb	5	5%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	4	10%	MTG
Ground Fern	2	5%	GF
Bryophytes/Lichens	na	20%	BL
Soil Crust	na	10%	S/C
<b>Total understorey projective foliage cover</b>		<b>75%</b>	

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Monotoca scoparia</i>	Prickly Broom-heath
MS	<i>Hovea pannosa</i> s.l.	Mountain Beauty
MS	<i>Brachyloma daphnoides</i>	Daphne Heath
MS	<i>Persoonia confertiflora</i>	Cluster-flower Geebung
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
SS	<i>Dillwynia phyllicoides</i>	Small-leaf Parrot-pea
SS	<i>Rhytidosporum procumbens</i>	White Marianth
SS	<i>Acacia gunnii</i>	Ploughshare Wattle
PS	<i>Platylobium formosum</i>	Handsome Flat-pea
PS	<i>Persoonia chamaepeuce</i>	Dwarf Geebung
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Derwentia perfoliata</i>	Digger's Speedwell
LH	<i>Wahlenbergia multicaulis</i>	Branching Bluebell
LH	<i>Chrysocephalum semipapposum</i>	Clustered Everlasting
MH	<i>Stellaria pungens</i>	Prickly Starwort
MH	<i>Helichrysum scorpioides</i>	Button Everlasting
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Diuris sulphurea</i>	Tiger Orchid
SH	<i>Crassula sieberiana</i>	Sieber Crassula
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Austrodanthonia induta</i>	Shiny Wallaby-grass
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MTG	<i>Poa labillardierei</i>	Common Tussock-grass
MTG	<i>Joycea pallida</i>	Silvertop Wallaby-grass
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
GF	<i>Cheilanthes sieberi</i> ssp. <i>sieberi</i>	Narrow Rock-fern
GF	<i>Asplenium flabellifolium</i>	Necklace Fern

#### Recruitment:

Continuous

#### Organic Litter:

40 % cover

## EVC 28: Rocky Outcrop Shrubland - Central Victorian Uplands bioregion

### Weediness:

#### LF Code

MH  
MNG

#### Typical Weed Species

*Hypochoeris radicata*  
*Vulpia myuros*

#### Common Name

Cat's Ear  
Rat's-tail Fescue

#### Invasive

high  
high

#### Impact

low  
low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands 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 obliqua</i>	Messmate Stringybark

#### Understorey:

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



# EVC 29: Damp Forest – Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Olearia argophylla</i>	Musk Daisy-bush
T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Pomaderris aspera</i>	Hazel Pomaderris
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Acacia verticillata</i>	Prickly Moses
MS	<i>Prostanthera lasianthos</i>	Victorian Christmas-bush
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Acrotriche prostrata</i>	Trailing Ground-berry
LH	<i>Senecio minimus</i>	Shrubby Fireweed
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
MH	<i>Geranium potentilloides</i>	Cinquefoil Cranesbill
MH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
SH	<i>Hypericum japonicum</i>	Matted St John's Wort
SH	<i>Lobelia pedunculata s.l.</i>	Matted Pratia
SH	<i>Oxalis exilis</i>	Shady Wood-sorrel
SH	<i>Dichondra repens</i>	Kidney-weed
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Lepidosperma elatius</i>	Tall Sword-sedge
LTG	<i>Carex appressa</i>	Tall Sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Poa morrisii</i>	Soft Tussock-grass
MTG	<i>Stylidium graminifolium s.l.</i>	Grass Trigger-plant
MNG	<i>Poa tenera</i>	Slender Tussock-grass
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Blechnum nudum</i>	Fishbone Water-fern
GF	<i>Blechnum wattsii</i>	Hard Water-fern
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
TRF	<i>Cyathea australis</i>	Rough Tree-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
MS	<i>Rubus fruticosus</i> spp. agg.	Blackberry	high	high
LH	<i>Urtica urens</i>	Small Nettle	high	high
MH	<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 30: Wet Forest

#### Description:

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

#### Large trees:

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

#### Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus regnans</i>	Mountain Ash

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	4	30%	T
Medium Shrub	6	20%	MS
Small Shrub	1	1%	SS
Large Herb	2	1%	LH
Medium Herb	5	10%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	1	1%	LTG
Large Non-tufted Graminoid	1	10%	LNG
Medium to Small Tufted Graminoid	1	5%	MTG
Ground Fern	4	20%	GF
Tree Fern	2	10%	TRF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	20%	BL

# EVC 30: Wet Forest - Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
T	<i>Pomaderris aspera</i>	Hazel Pomaderris
T	<i>Olearia argophylla</i>	Musk Daisy-bush
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Olearia phlogopappa</i>	Dusty Daisy-bush
MS	<i>Cassinia aculeata</i>	Common Cassinia
MS	<i>Correa lawrenceana</i>	Mountain Correa
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
MH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
MH	<i>Sambucus gaudichaudiana</i>	White Elderberry
MH	<i>Geranium potentilloides</i>	Cinquefoil Cranesbill
SH	<i>Leptostigma reptans</i>	Dwarf Nertera
LTG	<i>Lepidosperma elatius</i>	Tall Sword-sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Histiopteris incisa</i>	Bat's Wing Fern
GF	<i>Blechnum wattsii</i>	Hard Water-fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
TRF	<i>Cyathea australis</i>	Rough Tree-fern
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Billardiera longiflora</i> var. <i>longiflora</i>	Purple Apple-berry

## 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

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 37: Montane Grassy Woodland

#### Description:

Occurs in montane elevations on moderately fertile soils on all aspects. An open eucalypt woodland to 10 m tall, sometimes with a secondary tree layer. The understorey often consists of a sparse shrub layer which can be variable in height. The EVC is characterised by its grassy ground cover together with a variety of other graminoids and herbs.

#### Large trees:

Species	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	50 cm	15 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus pauciflora</i>	Snow Gum
	<i>Eucalyptus dives</i>	Broad-leaved Peppermint
	<i>Eucalyptus rubida</i>	Candlebark

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
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
Ground Fern	1	1%	GF
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

# EVC 37: Montane Grassy Woodland - Central Victoria Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
MS	<i>Cassinia aculeata</i>	Common Cassinia
MS	<i>Pultenaea juniperina</i> s.l.	Prickly Bush-pea
MS	<i>Pimelea linifolia</i>	Slender Rice-flower
MS	<i>Brachyloma daphnoides</i>	Daphne Heath
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
SS	<i>Olearia erubescens</i>	Moth Daisy-bush
SS	<i>Leucopogon hookeri</i>	Mountain Beard-heath
PS	<i>Platylobium formosum</i>	Handsome Flat-pea
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Viola betonicifolia</i> ssp. <i>betonicifolia</i>	Showy Violet
MH	<i>Stellaria pungens</i>	Prickly Starwort
SH	<i>Chiloglottis gunnii</i> s.l.	Common Bird-orchid
SH	<i>Galium ciliare</i>	Hairy Bedstraw
SH	<i>Leptinella filicula</i>	Mountain Cotula
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Stylidium graminifolium</i> s.l.	Grass Trigger-plant
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Luzula meridionalis</i> var. <i>flaccida</i>	Common Woodrush
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Glycine clandestina</i>	Twining Glycine

## 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>Cerastium glomeratum</i> s.l.	Common Mouse-ear Chickweed	high	low
MH	<i>Centaurea erythraea</i>	Common Centaury	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	low
MH	<i>Taraxacum officinale</i> spp. agg.	Garden Dandelion	high	low
SH	<i>Trifolium repens</i> var. <i>repens</i>	White Clover	high	high

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 45: Shrubby Foothill Forest

#### Description:

Occurs on ridges and mainly on southern and eastern slopes in association with Damp Forest or Wet Forest 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 radiata</i> ssp. <i>radiata</i>	Narrow-leaf Peppermint
	<i>Eucalyptus dives</i>	Broad-leaved Peppermint
	<i>Eucalyptus rubida</i>	Candlebark

#### 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	3	10%	SS
Prostrate Shrub	2	5%	PS
Large Herb	1	1%	LH
Medium Herb	7	15%	MH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	15%	LNG
Medium to Small Tufted Graminoid	5	20%	MTG
Medium to Tiny Non-tufted Graminoid	1	5%	MNG
Ground Fern	2	10%	GF
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

# EVC 45: Shrubby Foothill Forest - Central Victorian Uplands 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>Acacia mucronata ssp. longifolia</i>	Narrow-leaf Wattle
MS	<i>Acacia verticillata</i>	Prickly Moses
MS	<i>Pultenaea gunnii</i>	Golden Bush-pea
SS	<i>Olearia erubescens</i>	Moth Daisy-bush
SS	k <i>Pultenaea muelleri var. reflexifolia</i>	Mueller's Bush-pea
SS	<i>Acacia aculeatissima</i>	Thin-leaf Wattle
SS	<i>Dillwynia cinerascens s.l.</i>	Grey Parrot-pea
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Acrotriche prostrata</i>	Trailing Ground-berry
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
MH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Joycea pallida</i>	Silvertop Wallaby-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
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:

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

## Central Victorian Uplands 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 that 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 melliodora</i>	Yellow Box
	<i>Eucalyptus radiata</i> s.l.	Narrow-leaf Peppermint
	<i>Eucalyptus obliqua</i>	Messmate Stringybark
	<i>Eucalyptus rubida</i>	Candlebark

#### Understorey:

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

# EVC 47: Valley Grassy Forest - Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Acacia dealbata</i>	Silver Wattle
MS	<i>Daviesia leptophylla</i>	Narrow-leaf Bitter-pea
MS	<i>Epacris impressa</i>	Common Heath
SS	<i>Hovea heterophylla</i>	Common Hovea
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Dillwynia cinerascens</i> s.l.	Grey Parrot-pea
SS	<i>Acacia aculeatissima</i>	Thin-leaf Wattle
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>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Drosera peltata</i> ssp. <i>auriculata</i>	Tall Sundew
MH	<i>Burchardia umbellata</i>	Milkmaids
SH	<i>Opercularia varia</i>	Variable Stinkweed
SH	<i>Goodenia lanata</i>	Trailing Goodenia
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Hardenbergia violacea</i>	Purple Coral-pea

**Recruitment:**  
Continuous

**Organic Litter:**  
20 % 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>Centaurium erythraea</i>	Common Centaury	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 48: Heathy Woodland

#### Description:

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

#### Large trees:

##### Species

*Eucalyptus* spp.

##### DBH(cm)

60 cm

##### #/ha

15 / ha

#### Tree Canopy Cover:

##### %cover

15%

##### Character Species

*Eucalyptus dives*

##### Common Name

Broad-leaved Peppermint

#### Understorey:

##### Life form

Immature Canopy Tree  
Medium Shrub  
Small Shrub  
Prostrate Shrub  
Medium Herb  
Large Tufted Graminoid  
Large Non-tufted Graminoid  
Medium to Small Tufted Graminoid  
Ground Fern  
Bryophytes/Lichens  
Soil Crust

##### #Spp

7  
6  
1  
4  
2  
1  
4  
1  
na  
na

##### %Cover

5%  
40%  
20%  
1%  
5%  
10%  
5%  
10%  
1%  
10%  
10%

##### LF code

IT  
MS  
SS  
PS  
MH  
LTG  
LNG  
MTG  
GF  
BL  
S/C



## EVC 48: Heathy Woodland – Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Monotoca scoparia</i>	Prickly Broom-heath
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Banksia marginata</i>	Silver Banksia
SS	<i>Leucopogon virgatus</i>	Common Beard-heath
SS	k <i>Pultenaea muelleri</i> var. <i>reflexifolia</i>	Mueller's Bush-pea
SS	<i>Hovea heterophylla</i>	Common Hovea
SS	<i>Dillwynia sericea</i> s.l.	Showy Parrot-pea
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Drosera peltata</i> ssp. <i>auriculata</i>	Tall Sundew
MH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Lepidosperma tortuosum</i>	Tortuous Rapier-sedge
MTG	<i>Lepidosperma filiforme</i>	Common Rapier-sedge
GF	<i>Pteridium esculentum</i>	Austral Bracken
EP	<i>Cassytha glabella</i>	Slender Dodder-laurel

### Recruitment:

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

### Organic Litter:

40 % cover

### Logs:

15 m/0.1 ha.

### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands 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
60%	<i>Leptospermum lanigerum</i>	Woolly Tea-tree
	<i>Melaleuca squarrosa</i>	Scented Paperbark
	<i>Acacia melanoxylon</i>	Blackwood

#### Understorey:

Life form	#Spp	%Cover	LF code
Large Herb	5	10%	LH
Medium Herb	13	30%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	9	15%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	7	15%	MTG
Bryophytes/Lichens	na	20%	BL

LF Code	Species typical of at least part of EVC range	Common Name
LH	<i>Persicaria decipiens</i>	Slender Knotweed
LH	<i>Villarsia reniformis</i>	Running Marsh-flower
LH	<i>Epilobium pallidiflorum</i>	Showy Willow-herb
MH	<i>Hydrocotyle pterocarpa</i>	Wing Pennywort
MH	<i>Lilaeopsis polyantha</i>	Australian Lilaeopsis
MH	<i>Hydrocotyle muscosa</i>	Mossy Pennywort
SH	<i>Lobelia pedunculata s.l.</i>	Matted Pratia
SH	<i>Crassula helmsii</i>	Swamp Crassula
LTG	<i>Juncus procerus</i>	Tall Rush
LTG	<i>Gahnia clarkei</i>	Tall Saw-sedge
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
LTG	<i>Amphibromus recurvatus</i>	Dark Swamp Wallaby-grass
MTG	<i>Schoenus maschalinus</i>	Leafy Bog-sedge
MTG	k <i>Lachnagrostis filiformis (perennial variety)</i>	Wetland Blown-grass
MTG	<i>Juncus planifolius</i>	Broad-leaf Rush

#### Recruitment:

Continuous

#### Organic Litter:

20% Cover

#### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive Impact	
LH	<i>Rumex crispus</i>	Curled Dock	high	low
MH	<i>Lotus suaveolens</i>	Hairy Bird's-foot Trefoil	high	high
MH	<i>Leontodon taraxacoides ssp. taraxacoides</i>	Hairy Hawkbit	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Juncus bulbosus</i>	Bulbous Rush	high	high

# EVC 53: Swamp Scrub – Central Victorian Uplands bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 55: Plains Grassy Woodland

#### Description:

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

#### Large trees:

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

#### Tree Canopy Cover:

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

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	3	10%	T
Medium Shrub	3	5%	MS
Small Shrub	4	10%	SS
Prostrate Shrub	2	5%	PS
Medium Herb	9	20%	MH
Small or Prostrate Herb	4	5%	SH
Large Tufted Graminoid	2	10%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	6	25%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	1	1%	GF
Bryophytes/Lichens	na	10%	BL

# EVC 55: Plains Grassy Woodland - Central Victorian Uplands 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>Acacia pycnantha</i>	Golden Wattle
MS	<i>Acacia paradoxa</i>	Hedge Wattle
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Lissanthe strigosa</i> ssp. <i>subulata</i>	Peach Heath
SS	<i>Hibbertia stricta</i> s.l.	Upright Guinea-flower
SS	<i>Tetradlea ciliata</i>	Pink-bells
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Astroloma humifusum</i>	Cranberry Heath
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Poranthera microphylla</i>	Small Poranthera
MH	<i>Hypericum gramineum</i>	Small St John's Wort
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Drosera whittakeri</i> ssp. <i>aberrans</i>	Scented Sundew
SH	<i>Solenogyne dominii</i>	Smooth Solenogyne
SH	<i>Opercularia ovata</i>	Broad-leaf Stinkweed
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
LTG	<i>Austrostipa rudis</i> ssp. <i>nervosa</i>	Veined Spear-grass
LNG	<i>Lepidosperma longitudinale</i>	Pithy Sword-sedge
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken

## 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>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
MH	<i>Centaurea erythraea</i>	Common Centaury	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<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

## Central Victorian Uplands bioregion

### EVC 56: Floodplain Riparian Woodland

#### Description:

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

#### Large trees:

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

#### Tree Canopy Cover:

%cover	Character Species	Common Name
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	10%	T
Medium Shrub	6	15%	MS
Small Shrub	1	1%	SS
Large Herb	4	10%	LH
Medium Herb	4	10%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	3	10%	LTG
Large Non-tufted Graminoid	2	10%	LNG
Medium to Small Tufted Graminoid	3	10%	MTG
Medium to Tiny Non-tufted Graminoid	3	10%	MNG
Ground Fern	1	5%	GF
Scrambler or Climber	1	5%	SC
Bryophytes/Lichens	na	10%	BL

#### LF Code

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

#### Common Name

T	<i>Acacia dealbata</i>	Silver Wattle
MS	<i>Hymenanthera dentata</i> s.l.	Tree Violet
MS	<i>Cassinia aculeata</i>	Common Cassinia
MS	<i>Kunzea ericoides</i>	Burgan
SS	<i>Rubus parvifolius</i>	Small-leaf Bramble
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG	<i>Carex appressa</i>	Tall Sedge
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
LNG	<i>Phragmites australis</i>	Common Reed
MTG	<i>Juncus amabilis</i>	Hollow Rush
MTG	<i>Cyperus lhotskyanus</i>	Creeping Flat-sedge
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Distichlis distichophylla</i>	Australian Salt-grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
EP	<i>Muellerina eucalyptoides</i>	Creeping Mistletoe

# EVC 56: Floodplain Riparian Woodland - Central Victorian Uplands bioregion

## Recruitment:

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

## Organic Litter:

40 % cover

## Logs:

30 m/0.1 ha.

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
T	<i>Pinus radiata</i>	Radiata Pine	high	high
T	<i>Crataegus monogyna</i>	Hawthorn	high	high
MS	<i>Rosa rubiginosa</i>	Sweet Briar	high	high
MS	<i>Ulex europaeus</i>	Gorse	high	high
MS	<i>Rubus fruticosus</i> spp. agg.	Blackberry	high	high
LH	<i>Foeniculum vulgare</i>	Fennel	high	high
LH	<i>Verbena bonariensis</i> s.l.	Purple-top Verbena	high	high
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Plantago lanceolata</i>	Ribwort	high	low
LH	<i>Rumex crispus</i>	Curled Dock	high	low
LH	<i>Sonchus asper</i> s.l.	Rough Sow-thistle	high	low
LH	<i>Solanum nigrum</i> sensu Willis (1972)	Black Nightshade	high	low
LH	<i>Silybum marianum</i>	Variegated Thistle	high	high
LH	<i>Rorippa palustris</i>	Marsh Yellow-cress	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Acetosella vulgaris</i>	Sheep Sorrel	high	low
MH	<i>Trifolium dubium</i>	Suckling Clover	high	low
MH	<i>Trifolium subterraneum</i>	Subterranean Clover	high	low
MH	<i>Cerastium glomeratum</i> s.l.	Common Mouse-ear Chickweed	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
SH	<i>Trifolium repens</i> var. <i>repens</i>	White Clover	high	low
SH	<i>Polygonum aviculare</i> s.l.	Prostrate Knotweed	high	low
SH	<i>Callitriche stagnalis</i>	Common Starwort	high	high
LTG	<i>Phalaris aquatica</i>	Toowoomba Canary-grass	high	high
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Lolium multiflorum</i>	Italian Rye-grass	high	low
MTG	<i>Cyperus eragrostis</i>	Drain Flat-sedge	high	high
MTG	<i>Bromus hordeaceus</i> ssp. <i>hordeaceus</i>	Soft Brome	high	low
MTG	<i>Lolium perenne</i>	Perennial Rye-grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Critesion murinum</i>	Barley-grass	high	low
MTG	<i>Poa annua</i>	Annual Meadow-grass	high	low
MTG	<i>Bromus diandrus</i>	Great Brome	high	low
MTG	<i>Bromus catharticus</i>	Prairie Grass	high	low
MTG	<i>Dactylis glomerata</i>	Cocksfoot	high	high
MNG	<i>Paspalum distichum</i>	Water Couch	high	high
SC	<i>Galium aparine</i>	Cleavers	high	low
SC	<i>Vicia sativa</i>	Common Vetch	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 61: Box Ironbark Forest

#### Description:

Occurs on gently undulating rises, low hills and penneplains on infertile, often stony soils derived from a range of geologies. The open overstorey to 20 m tall consists of a variety of eucalypts, often including one of the Ironbark species. The mid storey often forms a dense to open small tree or shrub layer over an open ground layer ranging from a sparse to well-developed suite of herbs and grasses.

#### Large trees:

Species	DBH(cm)	# / ha
<i>Eucalyptus</i> spp.	70 cm	15 / ha
<i>Eucalyptus</i> (mallee) spp.	30 cm	

#### Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus polyanthemos</i>	Red Box
	<i>Eucalyptus macrorhyncha</i>	Red Stringybark
	<i>Eucalyptus tricarpa</i>	Red Ironbark
	<i>Eucalyptus goniocalyx</i> s.s.	Bundy

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Tree or Large Shrub	1	5%	T
Medium Shrub	6	25%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	2	1%	LH
Medium Herb	5	10%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	7	15%	MTG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
<b>Total understorey projective foliage cover</b>		<b>80%</b>	

# EVC 61: Box Ironbark Forest - Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Exocarpos cupressiformis</i>	Cherry Ballart
MT	<i>Eucalyptus behriana</i>	Bull Mallee
MS	<i>Acacia pycnantha</i>	Golden Wattle
MS	<i>Cassinia arcuata</i>	Drooping Cassinia
MS	<i>Brachyloma daphnoides</i>	Daphne Heath
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Wahlenbergia gracilis s.l.</i>	Sprawling Bluebell
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Einadia hastata</i>	Saloop
MH	<i>Galium gaudichaudii</i>	Rough Bedstraw
SH	<i>Dichondra repens</i>	Kidney-weed
MTG	<i>Joycea pallida</i>	Silvertop Wallaby-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Dianella revoluta s.l.</i>	Black-anther Flax-lily
MTG	<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass

**Recruitment:**  
Continuous

**Organic Litter:**  
20 % cover

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

<b>Weediness:</b>				
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
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

## Central Victorian Uplands bioregion

### EVC 64: Rocky Chenopod Woodland

#### Description:

Low open woodland to 8 m tall with an understorey dominated by chenopod (saltbush) species. Occurs on ridge-tops and steep upper slopes of hills with skeletal duplex soils that tend to have a high salt content and are fairly porous or impervious to water.

#### Large trees:

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

#### Tree Canopy Cover:

%cover	Character Species	Common Name
10%	<i>Eucalyptus microcarpa</i>	Grey Box
	<i>Eucalyptus leucoxylon</i>	Yellow Gum
	<i>Eucalyptus behriana</i>	Bull Mallee

#### Understorey:

Life form	#Spp	%Cover	LF code
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	5	10%	MS
Small Shrub	2	1%	SS
Medium Herb	4	5%	MH
Small or Prostrate Herb	3	5%	SH
Medium to Small Tufted Graminoid	3	10%	MTG
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	20%	S/C
<b>Total understorey projective foliage cover</b>		<b>60%</b>	



## EVC 64: Rocky Chenopod Woodland - Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Melaleuca lanceolata</i> ssp. <i>lanceolata</i>	Moonah
MS	r <i>Rhagodia parabolica</i>	Fragrant Saltbush
MS	<i>Acacia acinacea</i> s.l.	Gold-dust Wattle
MS	<i>Acacia pycnantha</i>	Golden Wattle
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
SS	<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	Ruby Saltbush
MH	<i>Einadia hastata</i>	Saloop
MH	<i>Einadia nutans</i> ssp. <i>nutans</i>	Nodding Saltbush
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Carpobrotus modestus</i>	Inland Pigface
SH	<i>Crassula sieberiana</i>	Sieber Crassula
SH	<i>Calandrinia calypttrata</i>	Pink Purslane
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MTG	<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass
EP	<i>Amyema miquelii</i>	Box Mistletoe
SC	<i>Clematis microphylla</i>	Small-leaved Clematis

### Recruitment:

Continuous

### Organic Litter:

10 % cover

### Logs:

10 m/0.1 ha.

### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Lycium ferocissimum</i>	African Box-thorn	low	high
LH	<i>Sonchus asper</i> s.l.	Rough Sow-thistle	high	low
MH	<i>Centaureum erythraea</i>	Common Centaury	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MTG	<i>Ehrharta longiflora</i>	Annual Veldt-grass	high	low
SC	<i>Asparagus asparagoides</i>	Bridal Creeper	high	high

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands 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%	v <i>Eucalyptus leucoxylon</i> ssp. <i>connata</i> <i>Eucalyptus camaldulensis</i>	Melbourne Yellow-gum 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	2	5%	MS
Large Herb	2	5%	LH
Medium Herb	9	20%	MH
Small or Prostrate Herb	3	15%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	8	10%	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
T	<i>Acacia mearnsii</i>	Black Wattle
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Acacia pycnantha</i>	Golden Wattle
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Acacia paradoxa</i>	Hedge Wattle
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
MH	<i>Einadia hastata</i>	Saloop
MH	<i>Veronica plebeia</i>	Trailing Speedwell
MH	<i>Stellaria pungens</i>	Prickly Starwort
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Cymbonotus preissianus</i>	Austral Bear's-ear
SH	<i>Myriophyllum integrifolium</i>	Tiny Water-milfoil
SH	<i>Phyllangium divergens</i>	Wiry Mitrewort
LTG	<i>Xanthorrhoea minor</i> ssp. <i>lutea</i>	Small Grass-tree
LTG	<i>Juncus pallidus</i>	Pale Rush
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Isolepis platycarpa</i>	Broad-fruit Club-sedge
MTG	<i>Pentapogon quadrifidus</i>	Five-awned Spear-grass
MTG	<i>Tricoryne elatior</i>	Yellow Rush-lily
MNG	<i>Poa tenera</i>	Slender Tussock-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
TTG	<i>Centrolepis fascicularis</i>	Tufted Centrolepis
TTG	<i>Centrolepis aristata</i>	Pointed Centrolepis
TTG	<i>Aphelia pumilio</i>	Dwarf Aphelia

# EVC 67: Alluvial Terraces Herb-rich Woodland - Central Victorian Uplands bioregion

**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>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
MH	<i>Arctotheca calendula</i>	Cape Weed	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
TTG	<i>Cyperus tenellus</i>	Tiny Flat-sedge	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands 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	1	5%	T
Medium Shrub	4	10%	MS
Small Shrub	3	5%	SS
Large Herb	2	5%	LH
Medium Herb	9	15%	MH
Small Herb	3	5%	SH
Large Tufted Graminoid	3	15%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	15	30%	MTG
Medium to Tiny Non-tufted Graminoid	3	5%	MNG
Bryophytes/Lichens	na	10%	BL

## EVC 68: Creekline Grassy Woodland - Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Acacia pycnantha</i>	Golden Wattle
MS	<i>Melaleuca parvistaminea</i>	Rough-barked Haoney-myrtle
MS	<i>Acacia retinodes</i> var. <i>retinodes</i>	Wilrilda
SS	<i>Pimelea humilis</i>	Common Rice-flower
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Senecio quadridentatus</i>	Cottony Fireweed
MH	<i>Centipeda cunninghamii</i>	Common Sneezeweed
MH	<i>Hypericum gramineum</i>	Small St John's Wort
SH	<i>Dichondra repens</i>	Kidneyweed
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
LTG	<i>Carex appressa</i>	Tall Sedge
LNG	<i>Phragmites australis</i>	Common Reed
MTG	<i>Elymus scaber</i> var. <i>scaber</i>	Common Wheat-grass
MTG	<i>Juncus</i> spp.	Rush
MTG	<i>Cyperus</i> spp.	Flat-sedge
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass

### Recruitment:

Continuous

### Organic Litter:

40 % cover

### Logs:

30 m/0.1 ha.

### 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>Anagallis arvensis</i>	Pimpernel	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Galium murale</i>	Small Goosegrass	high	low
MH	<i>Oxalis pes-caprae</i>	Soursob	high	high
LTG	<i>Juncus acutus</i>	Spiny Rush	high	high
LTG	<i>Phalaris aquatica</i>	Toowoomba Canary-grass	high	high
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Bromus hordeaceus</i> ssp. <i>hordeaceus</i>	Soft Brome	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Vulpia muralis</i>	Wall Fescue	high	low
MNG	<i>Bromus madritensis</i>	Madrid Brome	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 70: Hillcrest Herb-rich Woodland

#### Description:

Restricted to low rainfall areas and occurs on broad, flat hilltops and ridgelines and upper slopes of undulating rises and rolling hills at low elevations. The flatness of the ridgetops allows for the formation of deeper soils derived from Ordovician sediments and together with clayey sub-soils found in pockets in fractured sedimentary rock, results in better growing conditions than on the surrounding slopes. The overstorey is sparse and consists of low spreading eucalypts to 10 m tall. The medium shrub layer is usually absent while the ground layer has a diverse array of grasses and herbs partly due to protection offered by the easterly aspect.

#### Large trees:

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

#### Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus melliodora</i>	Yellow Box
	<i>Eucalyptus goniocalyx</i> s.s.	Bundy

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	5%	T
Medium Shrub	2	5%	MS
Small Shrub	1	1%	SS
Prostrate Shrub	1	1%	PS
Large Herb	4	10%	LH
Medium Herb	14	20%	MH
Small or Prostrate Herb	2	5%	SH
Medium to Small Tufted Graminoid	9	20%	MTG
Medium to Tiny Non-tufted Graminoid	3	5%	MNG
Tiny Tufted Graminoid*	3	5%	TTG
Ground Fern	1	5%	GF
Scrambler or Climber	2	1%	SC
Bryophytes/Lichens	na	10%	BL
*Largely seasonal life form			

#### Recruitment:

Continuous

#### Organic Litter:

20 % cover

#### Logs:

15 m/0.1 ha.

# EVC 70: Hillcrest Herb-rich Woodland - Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia mearnsii</i>	Black Wattle
T	<i>Exocarpos cupressiformis</i>	Cherry Ballart
MS	<i>Brachyloma daphnoides</i>	Daphne Heath
MS	<i>Acacia paradoxa</i>	Hedge Wattle
SS	<i>Hibbertia crinita</i>	Hoary Guinea-flower
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
LH	<i>Chrysocephalum semipapposum</i>	Clustered Everlasting
MH	<i>Gonocarpus elatus</i>	Tall Raspswort
MH	<i>Stackhousia monogyna</i>	Creamy Stackhousia
MH	<i>Pelargonium rodneyanum</i>	Magenta Stork's-bill
MH	<i>Xerochrysum viscosum</i>	Shiny Everlasting
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Hyalosperma demissum</i>	Moss Sunray
SH	<i>Kennedia prostrata</i>	Running Postman
SH	<i>Carpobrotus modestus</i>	Inland Pigface
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
MTG	<i>Austrostipa scabra</i> ssp. <i>falcata</i>	Rough Spear-grass
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MTG	<i>Neurachne alopecuroides</i>	Fox-tail Mulga-grass
TTG	<i>Centrolepis strigosa</i> ssp. <i>strigosa</i>	Hairy Centrolepis
TTG	<i>Centrolepis cephaliformis</i> ssp. <i>cephaloformis</i>	Cushion Centrolepis
TTG	<i>Centrolepis aristata</i>	Pointed Centrolepis
TTG	<i>Isolepis marginata</i>	Little Club-sedge
GF	<i>Cheilanthes austrotenuifolia</i>	Green Rock-fern
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily
SC	<i>Drosera macrantha</i>	Climbing Sundew

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Carduus tenuiflorus</i>	Winged Thistle	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MH	<i>Trifolium arvense</i> var. <i>arvense</i>	Hare's-foot Clover	high	low
MH	<i>Trifolium campestre</i> var. <i>campestre</i>	Hop Clover	high	low
MH	<i>Petrorhagia velutina</i>	Velvety Pink	high	low
MH	<i>Galium murale</i>	Small Goosegrass	high	low
MH	<i>Parentucellia latifolia</i>	Red Bartsia	high	low
MH	<i>Arctotheca calendula</i>	Cape Weed	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-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
MNG	<i>Avena barbata</i>	Bearded Oat	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Bromus madritensis</i>	Madrid Brome	high	low
MNG	<i>Vulpia myuros</i>	Rat's-tail Fescue	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands 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 microcarpa</i>	Grey Box
	<i>Eucalyptus melliodora</i>	Yellow Box
	<i>Eucalyptus camaldulensis</i>	River Red-gum

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	4	10%	MS
Small Shrub	2	1%	SS
Prostrate Shrub	1	1%	PS
Large Herb	1	5%	LH
Medium Herb	4	5%	MH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	8	25%	MTG
Medium to Tiny Non-tufted Graminoid	3	5%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
<b>Total understorey projective foliage cover</b>		<b>75%</b>	

# EVC 71: Hills Herb-rich Woodland - Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Allocasuarina verticillata</i>	Drooping Sheoak
MS	<i>Acacia pycnantha</i>	Golden Wattle
MS	<i>Acacia paradoxa</i>	Hedge Wattle
MS	<i>Ozothamnus obcordatus</i>	Grey Everlasting
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
MH	<i>Hypericum gramineum</i>	Small St John's Wort
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Tricoryne elatior</i>	Yellow Rush-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass

**Recruitment:**

Continuous

**Organic Litter:**

20 % cover

**Logs:**

15 m/0.1 ha.

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 72: Granitic Hills Woodland

#### Description:

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

#### 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 macrorhyncha</i> <i>Eucalyptus goniocalyx</i> s.l.	Red Stringybark Bundy

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	5	5%	MS
Large Herb	4	10%	LH
Medium Herb	9	15%	MH
Small or Prostrate Herb	2	5%	SH
Medium to Small Tufted Graminoid	11	20%	MTG
Medium to Tiny Non-tufted Graminoid	2	1%	MNG
Ground Fern	2	5%	GF
Scrambler or Climber	2	1%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
<b>Total understorey projective foliage cover</b>		<b>85%</b>	



# EVC 72: Granitic Hills Woodland - Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Exocarpos cupressiformis</i>	Cherry Ballart
T	<i>Acacia mearnsii</i>	Black Wattle
MS	<i>Brachyloma daphnoides</i>	Daphne Heath
MS	<i>Grevillea alpina</i>	Cat's Claw Grevillea
MS	<i>Indigofera australis</i>	Austral Indigo
MS	<i>Acacia verniciflua</i>	Varnish Wattle
SS	<i>Dillwynia sericea s.l.</i>	Showy Parrot-pea
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Stypandra glauca</i>	Nodding Blue-lily
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
LH	<i>Senecio hispidulus</i>	Rough Fireweed
MH	<i>Gonocarpus elatus</i>	Tall Raspwort
MH	<i>Senecio hispidulus var. dissectus</i>	Rough Fireweed
MH	<i>Isotoma axillaris</i>	Rock Isotome
MH	<i>Geranium solanderi s.l.</i>	Austral Cranesbill
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Crassula sieberiana</i>	Sieber Crassula
SH	<i>Cymbonotus preissianus</i>	Austral Bear's-ear
MTG	<i>Joycea pallida</i>	Silvertop Wallaby-grass
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Luzula meridionalis var. flaccida</i>	Common Woodrush
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
MNG	<i>Hemarthria uncinata var. uncinata</i>	Mat Grass
TTG	<i>Centrolepis strigosa ssp. strigosa</i>	Hairy Centrolepis
GF	<i>Cheilanthes austrotenuifolia</i>	Green Rock-fern
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Cheilanthes sieberi ssp. sieberi</i>	Narrow Rock-fern
EP	<i>Amyema pendula</i>	Drooping Mistletoe
SC	<i>Hardenbergia violacea</i>	Purple Coral-pea
SC	<i>Comesperma volubile</i>	Love Creeper
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily

## Recruitment:

Continuous

## Organic Litter:

20 % cover

## Logs:

15 m/0.1 ha.

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Carduus pycnocephalus</i>	Slender Thistle	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Centaurea erythraea</i>	Common Centaury	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MH	<i>Trifolium arvense var. arvense</i>	Hare's-foot Clover	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Bromus diandrus</i>	Great Brome	high	low
MNG	<i>Aira spp.</i>	Hair Grass	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 80: Spring Soak Woodland

#### Description:

Woodland to 10m tall with an understorey dominated by medium and small herbs and occasional shrubs. Generally occurring on granitic-outwash soils and dependent on the continual availability of a reliable water supply.

#### Large trees:

Species	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	50 cm	5 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus blakelyi</i>	Blakely's Red-gum
	<i>Eucalyptus polyanthemos</i>	Red Box

#### Understorey:

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

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia implexa</i>	Lightwood
MS	<i>Calytrix tetragona</i>	Common Fringe-myrtle
MS	<i>Acacia pycnantha</i>	Golden Wattle
MS	<i>Acacia mitchellii</i>	Mitchell's Wattle
SS	<i>Hibbertia riparia</i>	Erect Guinea-flower
SS	<i>Pultenaea prostrata</i>	Silky Bush-pea
SS	<i>Dillwynia sericea s.l.</i>	Showy Parrot-pea
MH	<i>Crassula decumbens var. decumbens</i>	Spreading Crassula
MH	<i>Hypericum gramineum</i>	Small St John's Wort
LTG	<i>Austrostipa nodosa</i>	Knotty Spear-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Poa morrisii</i>	Soft Tussock-grass
MTG	<i>Arthropodium strictum s.l.</i>	Chocolate Lily
MTG	<i>Chamaescilla corymbosa var. corymbosa</i>	Blue Stars
GF	<i>Cheilanthes sieberi ssp. sieberi</i>	Narrow Rock-fern
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily

# EVC 80: Spring Soak Woodland - Central Victorian Uplands bioregion

**Recruitment:**

Continuous

**Organic Litter:**

20 % cover

**Logs:**

5 m/0.1 ha.

**Weediness:**

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Solanum nigrum sensu Willis (1972)</i>	Black Nightshade	high	high
LH	<i>Dittrichia graveolens</i>	Stinkwort	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Arctotheca calendula</i>	Cape Weed	high	low
MH	<i>Cicendia filiformis</i>	Slender Cicendia	high	low
MH	<i>Cicendia quadrangularis</i>	Square Cicendia	high	low
MH	<i>Vellereophyton dealbatum</i>	White Cudweed	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Moenchia erecta</i>	Erect Chickweed	high	low
MH	<i>Acetosella vulgaris</i>	Sheep Sorrel	high	high
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
SH	<i>Soliva sessilis</i>	Jo Jo	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Lolium perenne</i>	Perennial Rye-grass	high	high
MTG	<i>Poa annua</i>	Annual Meadow-grass	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Ehrharta longiflora</i>	Annual Veldt-grass	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MNG	<i>Avena barbata</i>	Bearded Oat	high	low
MNG	<i>Aira spp.</i>	Hair Grass	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low
MNG	<i>Aira caryophylla</i>	Silvery Hair-grass	high	low
TTG	<i>Isolepis hystrix</i>	Awed Club-sedge	high	low
TTG	<i>Cyperus tenellus</i>	Tiny Flat-sedge	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 82: Riverine Escarpment Scrub

#### Description:

Shrubland to 10 m tall with occasional emergent eucalypts. Occurs on shallow colluvial soils along rocky cliffs and slopes associated with rivers and creeks and may extend onto alluvial terraces. Characterised by a dense medium to tall shrub layer over a ground layer which can range from low to high diversity and consist of a variety of graminoids and herbs. Ferns can often be a major component of the ground stratum.

#### Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Acacia melanoxylon</i>	Blackwood
	<i>Pomaderris aspera</i>	Hazel Pomaderris
	<i>Acacia dealbata</i>	Silver Wattle

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Shrub		5%	IT
Medium Shrub	8	30%	MS
Small Shrub	2	1%	SS
Prostrate Shrub	1	1%	PS
Large Herb	2	5%	LH
Medium Herb	12	20%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	4	15%	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	1	5%	SC
Bryophytes/Lichens	na	10%	BL

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Lomatia myricoides</i>	River Lomatia
MS	<i>Leptospermum brevipes</i>	Slender Tea-tree
MS	<i>Kunzea ericoides</i>	Burgan
SS	<i>Leucopogon hookeri</i>	Mountain Beard-heath
SS	<i>Platylobium formosum</i>	Handsome Flat-pea
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Epilobium billardierianum</i> ssp. <i>hydrophilum</i>	Robust Willow-herb
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
MH	<i>Ajuga australis</i>	Austral Bugle
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG	<i>Cyperus lucidus</i>	Leafy Flat-sedge
LTG	<i>Carex appressa</i>	Tall Sedge
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Poa labillardierei</i> var. <i>labillardierei</i>	Common Tussock-grass
MTG	<i>Poa sieberiana</i> var. <i>sieberiana</i>	Grey Tussock-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Adiantum aethiopicum</i>	Common Maidenhair
GF	<i>Blechnum nudum</i>	Fishbone Water-fern

# EVC 82: Riverine Escarpment Scrub - Central Victorian Uplands bioregion

**Recruitment:**

Continuous

**Organic Litter:**

40 % cover

**Logs:**

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

**Weediness:**

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Rosa rubiginosa</i>	Sweet Briar	high	high
MS	<i>Rubus</i> sp. aff. <i>armeniacus</i>	Blackberry	high	high
MS	<i>Rubus fruticosus</i> spp. agg.	Blackberry	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Centaureum erythraea</i>	Common Centaury	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 83: Swampy Riparian Woodland

#### Description:

Woodland to 15 m tall generally occupying low energy streams of the foothills and plains. The lower strata are variously locally dominated by a range of large and medium shrub species on the stream levees in combination with large tussock grasses and sedges in the ground layer.

#### Large trees:

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

#### Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus globulus</i> ssp. <i>bicostata</i>	Eurabbie
	<i>Eucalyptus ovata</i>	Swamp Gum

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	3	10%	T
Medium Shrub	3	5%	MS
Small Shrub	1	1%	SS
Large Herb	3	5%	LH
Medium Herb	7	15%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	5	10%	LTG
Large Non-tufted Graminoid	3	15%	LNG
Medium to Small Tufted Graminoid	9	15%	MTG
Medium to Tiny Non-tufted Graminoid	5	15%	MNG
Ground Fern	4	10%	GF
Bryophytes/Lichens	na	20%	BL

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia pravissima</i>	Ovens Wattle
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Dodonaea viscosa</i> ssp. <i>angustissima</i>	Slender Hop-bush
MS	<i>Leptospermum lanigerum</i>	Woolly Tea-tree
MS	<i>Dodonaea viscosa</i>	Sticky Hop-bush
SS	<i>Rubus parvifolius</i>	Small-leaf Bramble
LH	<i>Persicaria hydropiper</i>	Water Pepper
LH	<i>Wahlenbergia gracilis</i> s.l.	Sprawling Bluebell
MH	<i>Hypericum gramineum</i>	Small St John's Wort
LTG	<i>Juncus sarophorus</i>	Broom Rush
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Carex appressa</i>	Tall Sedge
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
LNG	<i>Phragmites australis</i>	Common Reed
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Isolepis habra</i>	Wispy Club-sedge
MNG	<i>Cyperus sphaeroideus</i>	Globe Kyllinga
GF	<i>Blechnum nudum</i>	Fishbone Water-fern
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Blechnum minus</i>	Soft Water-fern
GF	<i>Adiantum aethiopicum</i>	Common Maidenhair

# EVC 83: Swampy Riparian Woodland - Central Victorian Uplands bioregion

## Recruitment:

Continuous

## Organic Litter:

20 % cover

## Logs:

20 m/0.1 ha.

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Rosa rubiginosa</i>	Sweet Briar	high	high
MS	<i>Rubus fruticosus</i> spp. agg.	Blackberry	high	high
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Rumex crispus</i>	Curled Dock	high	low
LH	<i>Carduus pycnocephalus</i>	Slender Thistle	high	high
LH	<i>Conyza bonariensis</i>	Flaxleaf Fleabane	high	low
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
LH	<i>Verbascum virgatum</i>	Twiggy Mullein	high	high
LH	<i>Solanum nigrum</i> sensu Willis (1972)	Black Nightshade	high	low
LH	<i>Silybum marianum</i>	Variegated Thistle	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Acetosella vulgaris</i>	Sheep Sorrel	high	high
MH	<i>Centaurea erythraea</i>	Common Centaury	high	low
MH	<i>Lotus corniculatus</i>	Bird's-foot Trefoil	high	high
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MH	<i>Rorippa nasturtium-aquaticum</i>	Watercress	high	high
MH	<i>Mimulus moschatus</i>	Musk Monkey-flower	high	high
MH	<i>Petrorhagia velutina</i>	Velvety Pink	high	low
SH	<i>Callitriche stagnalis</i>	Common Starwort	high	high
SH	<i>Trifolium repens</i> var. <i>repens</i>	White Clover	high	high
LTG	<i>Phalaris aquatica</i>	Toowoomba Canary-grass	high	high
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
LNG	<i>Avena</i> spp.	Oat	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Bromus diandrus</i>	Great Brome	high	low
MTG	<i>Paspalum dilatatum</i>	Paspalum	high	high
MTG	<i>Cyperus eragrostis</i>	Drain Flat-sedge	high	high
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Setaria viridis</i>	Green Pigeon-grass	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Ehrharta erecta</i> var. <i>erecta</i>	Panic Veldt-grass	high	high
MNG	<i>Cynosurus echinatus</i>	Rough Dog's-tail	high	low
MNG	<i>Paspalum distichum</i>	Water Couch	high	high
MNG	<i>Aira cupaniana</i>	Quicksilver Grass	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 125: Plains Grassy Wetland

#### Description:

This EVC is usually treeless, but in some instances can include sparse River Red Gum *Eucalyptus camaldulensis* or Swamp Gum *Eucalyptus ovata*. 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	5	5%	LH
Medium Herb	6	10%	MH
Small or Prostrate Herb	3	10%	SH
Large Tufted Graminoid	3	15%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	8	30%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
Bryophytes/Lichens	na	10%	BL

#### LF Code

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

#### Common Name

LH	<i>Epilobium billardierianum</i>	Variable Willow-herb
LH	<i>Villarsia reniformis</i>	Running Marsh-flower
LH	<i>Epilobium billardierianum</i> ssp. <i>cinereum</i>	Grey Willow-herb
MH	<i>Potamogeton tricarlinatus</i> s.l.	Floating Pondweed
MH	<i>Lilaeopsis polyantha</i>	Australian Lilaeopsis
MH	<i>Utricularia dichotoma</i> s.l.	Fairies' Aprons
SH	<i>Eryngium vesiculosum</i>	Prickfoot
SH	<i>Neopaxia australasica</i>	White Purslane
SH	<i>Lobelia pratioides</i>	Poison Lobelia
LTG	<i>Juncus flavidus</i>	Gold Rush
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
LTG	<i>Amphibromus nervosus</i>	Common Swamp Wallaby-grass
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
MTG	<i>Triglochin procerum</i> s.l.	Water Ribbons
MTG	<i>Glyceria australis</i>	Australian Sweet-grass
MTG	<i>Juncus holoschoenus</i>	Joint-leaf Rush
MTG	<i>Austrodanthonia duttoniana</i>	Brown-back Wallaby-grass
MNG	<i>Eleocharis acuta</i>	Common Spike-sedge
MNG	<i>Eleocharis pusilla</i>	Small Spike-sedge

#### Recruitment:

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

#### Organic Litter:

20% cover

#### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Cirsium vulgare</i>	Spear Thistle	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>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
TTG	<i>Cyperus tenellus</i>	Tiny Flat-sedge	high	low

# EVC 125: Plains Grassy Wetland – Central Victorian Uplands bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 127: Valley Heathy Forest

#### Description:

A low, open forest to 15 m tall with a sedgy/grassy understorey with a component of small ericoid shrubs and grass-trees. Soil and moisture factors are critical in delimiting the vegetation.

#### 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 melliodora</i>	Yellow Box
	<i>Eucalyptus goniocalyx</i> s.l.	Bundy
	<i>Eucalyptus macrorhyncha</i>	Red Stringybark

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	7	15%	MS
Small Shrub	5	5%	SS
Prostrate Shrub	2	1%	PS
Medium Herb	6	10%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	3	5%	LTG
Large Non-tufted Graminoid	2	20%	LNG
Medium to Small Tufted Graminoid	6	15%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	1	1%	GF
Scrambler or Climber	3	5%	SC
Bryophytes/Lichens	na	10%	BL



# EVC 127: Valley Heathy Forest - Central Victorian Uplands 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>Cassinia aculeata</i>	Common Cassinia
MS	<i>Daviesia leptophylla</i>	Narrow-leaf Bitter-pea
MS	<i>Cassinia arcuata</i>	Drooping Cassinia
SS	<i>Platylobium obtusangulum</i>	Common Flat-pea
SS	<i>Dillwynia cinerascens s.l.</i>	Grey Parrot-pea
SS	<i>Hovea heterophylla</i>	Common Hovea
SS	<i>Pimelea humilis</i>	Common Rice-flower
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
MH	<i>Leptorhynchos tenuifolius</i>	Wiry Buttons
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Helichrysum scorpioides</i>	Button Everlasting
SH	<i>Opercularia varia</i>	Variable Stinkweed
SH	<i>Drosera whittakeri ssp. aberrans</i>	Scented Sundew
SH	<i>Oxalis corniculata s.l.</i>	Yellow Wood-sorrel
LTG	<i>Xanthorrhoea minor ssp. lutea</i>	Small Grass-tree
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>Joycea pallida</i>	Silvertop Wallaby-grass
MTG	<i>Poa morrisii</i>	Soft Tussock-grass
MTG	<i>Dianella revoluta s.l.</i>	Black-anther Flax-lily
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
GF	<i>Lindsaea linearis</i>	Screw Fern
SC	<i>Billardiera scandens</i>	Common Apple-berry
SC	<i>Hardenbergia violacea</i>	Purple Coral-pea

## Recruitment:

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

## Organic Litter:

40 % cover

## Logs:

20 m/0.1 ha.

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
T	<i>Pinus radiata</i>	Radiata Pine	low	high
MS	<i>Rubus fruticosus spp. agg.</i>	Blackberry	high	high
LH	<i>Plantago lanceolata</i>	Ribwort	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 128: Grassy Forest

#### Description:

Low growing forest to 20 m tall with an understorey of small and medium shrubs and a rich diversity of herbs. Large shrubs and understorey trees may also be conspicuous. Often grows in areas transitional between drier box stringybark forests and taller herb-rich forests typical of more favourable environments.

#### 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 rubida</i>	Candlebark
	<i>Eucalyptus radiata</i> s.l.	Narrow-leaf Peppermint

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	3	10%	MS
Small Shrub	4	5%	SS
Prostrate Shrub	2	1%	PS
Large Herb	3	5%	LH
Medium Herb	10	15%	MH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	9	30%	MTG
Scrambler or Climber	2	1%	SC
Bryophytes/Lichens	na	10%	BL
<b>Total understorey projective foliage cover</b>		<b>80%</b>	

# EVC 128: Grassy Forest - Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Daviesia leptophylla</i>	Narrow-leaf Bitter-pea
MS	<i>Pultenaea gunnii</i>	Golden Bush-pea
SS	<i>Hovea heterophylla</i>	Common Hovea
SS	<i>Dillwynia cinerascens s.l.</i>	Grey Parrot-pea
SS	<i>Leucopogon virgatus</i>	Common Beard-heath
SS	<i>Tetratheca ciliata</i>	Pink-bells
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Platylobium formosum</i>	Handsome Flat-pea
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Senecio glomeratus</i>	Annual Fireweed
LH	<i>Wahlenbergia gymnoclada</i>	Naked Bluebell
MH	<i>Helichrysum scorpioides</i>	Button Everlasting
MH	<i>Poranthera microphylla</i>	Small Poranthera
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
SH	<i>Opercularia varia</i>	Variable Stinkweed
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Dichelachne sciurea spp. agg.</i>	Short-hair Plume-grass
MTG	<i>Stylidium graminifolium s.l.</i>	Grass Trigger-plant
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Hardenbergia violacea</i>	Purple Coral-pea

## Recruitment:

Continuous

## Organic Litter:

20 % cover

## Logs:

20 m/0.1 ha.

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
T	<i>Pinus radiata</i>	Radiata Pine	low	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high
MTG	<i>Agrostis capillaris s.l.</i>	Brown-top Bent	high	high

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 132: Plains Grassland

#### Description:

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

#### Life Forms:

Life form	#Spp	%Cover	LF code
Small Shrub	1	1%	SS
Large Herb	3	10%	LH
Medium Herb	10	20%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	13	50%	MTG
Medium to Tiny Non-tufted Graminoid	4	10%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

#### LF Code

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

#### Common Name

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

# EVC 132: Plains Grassland - Central Victorian Uplands bioregion

## Recruitment:

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

## Organic Litter:

10% cover

## Weediness:

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

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands 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 – Central Victorian Uplands 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

## Central Victorian Uplands bioregion

### EVC 136: Sedge Wetland

#### Description:

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

#### Life Forms:

Life form	#Spp	%Cover	LF code
Large Herb	2	5%	LH
Large Tufted Graminoid	1	1%	LTG
Large Non-tufted Graminoid	2	40%	LNG
Medium to Small Tufted Graminoid	1	5%	MTG
Medium to Tiny Non-tufted Graminoid	1	5%	MNG
<b>Total understorey projective foliage cover</b>		<b>55%</b>	

LF Code	Species typical of at least part of EVC range	Common Name
LH	<i>Villarsia reniformis</i>	Running Marsh-flower
LH	v <i>Thelymitra circumsepta</i>	Naked Sun-orchid
SH	<i>Lobelia pratioides</i>	Poison Lobelia
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
LNG	<i>Lepidosperma longitudinale</i>	Pithy Sword-sedge
LNG	<i>Baumea rubiginosa</i> s.l.	Soft Twig-rush
MTG	<i>Lachnagrostis filiformis</i> var. <i>filiformis</i>	Common Blown-grass
MNG	<i>Chorizandra cymbaria</i> s.l.	Heron Bristle-sedge

#### 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
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	low

# EVC 136: Sedge Wetland - Central Victorian Uplands bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 164: Creekline Herb-rich Woodland

#### Description:

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

#### Large trees:

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

#### Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus ovata</i>	Swamp Gum
	<i>Eucalyptus viminalis</i>	Manna Gum
	<i>Eucalyptus radiata</i> ssp. <i>radiata</i>	Narrow-leaf Peppermint

#### Life Forms:

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



## EVC 164: Creekline Herb-rich Woodland - Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Acacia dealbata</i>	Silver Wattle
MS	<i>Bursaria spinosa</i>	Sweet Bursaria
MS	<i>Pultenaea daphnoides</i>	Large-leaf Bush-pea
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Senecio linearifolius</i>	Fireweed Groundsel
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
MH	<i>Stellaria pungens</i>	Prickly Starwort
MH	<i>Geranium potentilloides</i>	Cinquefoil
SH	<i>Dichondra repens</i>	Kidneyweed
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Luzula meridionalis</i> var. <i>flaccida</i>	Common Woodrush
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Barcken
GF	<i>Adiantum aethiopicum</i>	Common Maidehair

### Recruitment:

Continuous

### Organic Litter:

20 % cover

### Logs:

10 m/0.1 ha.

### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MTG	<i>Anxanthanthum odoratum</i>	Sweet Vernal Grass	high	high
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 175\_61: 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 plains 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 polyanthemos</i>	Red Box
	<i>Eucalyptus viminalis</i>	Manna Gum
	<i>Eucalyptus yarraensis</i>	Yarra Gum
	<i>Eucalyptus pauciflora</i>	Snow 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	2	15%	MS
Small Shrub	1	1%	SS
Prostrate Shrub	1	1%	PS
Medium Herb	8	20%	MH
Small or Prostrate Herb	3	10%	SH
Medium to Small Tufted Graminoid	8	40%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Bryophytes/Lichens	na	10%	BL

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Allocasuarina littoralis</i>	Black Sheoak
T	<i>Allocasuarina verticillata</i>	Drooping Sheoak
MS	<i>Acacia pycnantha</i>	Golden Wattle
MS	<i>Acacia paradoxa</i>	Hedge Wattle
SS	<i>Pimelea humilis</i>	Common Rice-flower
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Drosera peltata</i> ssp. <i>auriculata</i>	Tall Sundew
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Opercularia varia</i>	Variable Stinkweed
SH	<i>Drosera whittakeri</i> ssp. <i>aberrans</i>	Scented Sundew
MTG	<i>Lepidosperma filiforme</i>	Common Rapier-sedge
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass

# EVC 175\_61: Grassy Woodland - Central Victorian Uplands 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
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MNG	<i>Vulpia myuros</i>	Rat's-tail Fescue	high	low
MNG	<i>Aira cupaniana</i>	Quicksilver Grass	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 175\_62: *Ganitic* Grassy Woodland

#### Description:

A variable eucalypt woodland or open forest to 15 m tall over a distinct large and medium shrub layer and diverse ground layer of grasses and herbs. It occurs on sites with moderate fertility on plains or weathered undulating granitic hills in areas with moderately high rainfall (>600 mm per annum).

#### 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 rubida</i>	Candlebark
	<i>Eucalyptus viminalis</i>	Manna Gum
	<i>Eucalyptus yarraensis</i>	Yarra Gum
	<i>Eucalyptus pauciflora</i>	Snow 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	2	15%	MS
Small Shrub	1	1%	SS
Prostrate Shrub	1	1%	PS
Medium Herb	8	20%	MH
Small or Prostrate Herb	3	10%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	8	40%	MTG
Medium to Tiny Non-tufted Graminoid	1	5%	MNG
Ground Fern	1	5%	GF
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 implexa</i>	Lightwood
MS	<i>Acacia pycnantha</i>	Golden Wattle
MS	<i>Acacia paradoxa</i>	Hedge Wattle
MS	<i>Cassinia arcuata</i>	Drooping Cassinia
SS	<i>Pimelea humilis</i>	Common Rice-flower
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Drosera peltata</i> ssp. <i>auriculata</i>	Tall Sundew
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
MH	<i>Chrysocephalum apiculatum</i> s.l.	Common Everlasting
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Opercularia varia</i>	Variable Stinkweed
SH	<i>Drosera whittakeri</i> ssp. <i>aberrans</i>	Scented Sundew
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken

# EVC 175\_62: *Grassic* Grassy Woodland - Central Victorian Uplands 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
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MNG	<i>Vulpia myuros</i>	Rat's-tail Fescue	high	low
MNG	<i>Aira cupaniana</i>	Quicksilver Grass	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 177: Valley Slopes Dry Forest

#### Description:

Open eucalypt forest to 20 m tall. Occurs on steep, eroding slopes in dry country. Soils are skeletal though fertile and well-drained, with occasional rock outcropping which constantly erodes and falls into the river where it undercuts steep slopes. The unconsolidated soils are partially due to low biomass in the vegetation, which does little to bind the soil. This EVC carries a mixture of wet and dry species as river fogs and river margins provide increased moisture and hence the understorey consists of a mix of species common to both drier and wetter sites that do not usually occur together.

#### 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 polyanthemus</i>	Red Box
	<i>Eucalyptus melliodora</i>	Yellow Box

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	4	15%	T
Medium Shrub	6	20%	MS
Small Shrub	1	5%	SS
Large Herb	5	10%	LH
Medium Herb	8	15%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	6	15%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	3	5%	GF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

# EVC 177: Valley Slopes Dry Forest - Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Exocarpos cupressiformis</i>	Cherry Ballart
T	<i>Acacia implexa</i>	Lightwood
T	<i>Acacia mearnsii</i>	Black Wattle
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Lomatia myricoides</i>	River Lomatia
MS	<i>Indigofera australis</i>	Austral Indigo
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
LH	<i>Senecio pinnatifolius</i>	Variable Groundsel
LH	<i>Senecio linearifolius</i>	Fireweed Groundsel
LH	<i>Senecio hispidulus</i>	Rough Fireweed
MH	<i>Stellaria pungens</i>	Prickly Starwort
MH	<i>Einadia hastata</i>	Saloop
MH	<i>Veronica calycina</i>	Hairy Speedwell
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Oxalis corniculata</i> s.l.	Yellow Wood-sorrel
SH	<i>Desmodium gunnii</i>	Southern Tick-trefoil
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Poa ensiformis</i>	Sword Tussock-grass
MTG	<i>Poa sieberiana</i> var. <i>sieberiana</i>	Grey Tussock-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Calochlaena dubia</i>	Common Ground-fern
GF	<i>Cheilanthes austrotenuifolia</i>	Green Rock-fern
GF	<i>Asplenium flabellifolium</i>	Necklace Fern
EP	<i>Amyema pendula</i>	Drooping Mistletoe
EP	<i>Amyema miquelii</i>	Box Mistletoe
SC	<i>Pandorea pandorana</i>	Wonga Vine
SC	<i>Glycine clandestina</i>	Twining Glycine

## Recruitment:

Continuous

## Organic Litter:

40 % cover

## Logs:

20 m/0.1 ha.

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Rubus fruticosus</i> spp. agg.	Blackberry	high	high
LH	<i>Verbascum virgatum</i>	Twiggy Mullein	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Centaurea erythraea</i>	Common Centaury	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands 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 typically consists of sedges tolerant of seasonal waterlogging. Occurs along creeks and minor stream tributaries of the lowland plains.

#### Canopy Cover:

%cover	Character Species	Common Name
60%	<i>Leptospermum lanigerum</i>	Woolly Tea-tree

#### Understorey:

Life form	#Spp	%Cover	LF code
Medium Shrub	3	20%	MS
Large Herb	4	10%	LH
Medium Herb	8	10%	MH
Small or Prostrate Herb	4	5%	SH
Large Tufted Graminoid	3	20%	LTG
Large Non-tufted Graminoid	2	5%	LNG
Medium to Small Tufted Graminoid	5	10%	MTG
Medium to Tiny Non-tufted Graminoid	3	10%	MNG
Scrambler/Climber	1	5%	SC
Bryophytes/Lichens	na	20%	BL

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Acacia verticillata</i>	Prickly Moses
MH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
SH	<i>Oxalis exilis</i>	Shady Wood-sorrel
SH	<i>Crassula helmsii</i>	Swamp Crassula
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
LTG	<i>Carex tereticaulis</i>	Hollow Sedge
LTG	<i>Carex appressa</i>	Tall Sedge
LNG	<i>Phragmites australis</i>	Common Reed
LNG	<i>Lepidosperma longitudinale</i>	Pithy Sword-sedge
MTG	<i>Triglochin procerum</i> s.l.	Water Ribbons
MNG	<i>Empodisma minus</i>	Spreading Rope-rush
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
SC	<i>Gleichenia microphylla</i>	Scrambling Coral-fern

#### Recruitment:

Continuous

#### Organic Litter:

40 % cover

# EVC 191: Riparian Scrub – Central Victorian Uplands bioregion

## Weediness:

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

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 195: Seasonally Inundated Shrubby Woodland

#### Description:

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

#### Large trees:

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

#### Tree Canopy Cover:

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

#### Understorey:

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

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



# EVC 195: Seasonally Inundated Shrubby Woodland - Central Victorian Uplands bioregion

**Recruitment:**

Continuous

**Organic Litter:**

30 % cover

**Logs:**

15 m/0.1 ha.

**Weediness:**

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 198: Sedgy Riparian Woodland

#### Description:

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

#### Large trees:

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

#### Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus ovata</i>	Swamp Gum
	<i>Eucalyptus radiata</i> ssp. <i>radiata</i>	Narrow-leaf Peppermint
	<i>Eucalyptus obliqua</i>	Messmate Stringybark

#### Understorey:

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

# EVC 198: Sedgy Riparian Woodland - Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Bossiaea cordigera</i>	Wiry Bossiaea
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Acacia verticillata</i>	Prickly Moses
SS	<i>Dillwynia cinerascens s.l.</i>	Grey Parrot-pea
SS	<i>Olearia erubescens</i>	Moth Daisy-bush
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
MH	<i>Drosera peltata ssp. auriculata</i>	Tall Sundew
SH	<i>Hypericum japonicum</i>	Matted St John's Wort
SH	<i>Hydrocotyle sibthorpioides</i>	Shining Pennywort
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LTG	<i>Lepidosperma elatius</i>	Tall Sword-sedge
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
MNG	<i>Poa tenera</i>	Slender Tussock-grass
GF	<i>Pteridium esculentum</i>	Austral Bracken

## Recruitment:

Continuous

## Organic Litter:

30 % 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>Leontodon taraxacoides ssp. taraxacoides</i>	Hairy Hawkbit	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	high
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high
MTG	<i>Agrostis capillaris s.l.</i>	Brown-top Bent	high	high

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 235: Plains Woodland/Herb-rich Gilgai Wetland Mosaic

#### Description:

Open woodland to 15 m tall on broad alluvial plains and along ephemeral drainage lines. Soils are generally poorly drained heavy clays which form distinctive "gilgai" crests and troughs in a fine-scale mosaic. The understorey consists of few, if any shrubs while the ground layer is made up of a combination of "dryland" herbs/grasses and amphibious herbs/grasses tolerant of seasonal inundation.

#### Large trees:

Species	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	70 cm	10 / ha
<i>Allocasuarina luehmannii</i>	40 cm	

#### Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus camaldulensis</i>	River Red-gum
	<i>Eucalyptus microcarpa</i>	Grey Box
	<i>Allocasuarina luehmannii</i>	Buloke

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	2	10%	MS
Large Herb	2	5%	LH
Medium Herb	9	15%	MH
Small or Prostrate Herb	3	15%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	8	20%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		90%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Acacia pycnantha</i>	Golden Wattle
MS	<i>Acacia paradoxa</i>	Hedge Wattle
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
MH	<i>Veronica plebeia</i>	Trailing Speedwell
MH	<i>Calotis anthemoides</i>	Cut-leaf Burr-daisy
MH	<i>Brachyscome basaltica</i> var. <i>gracilis</i>	Woodland Swamp-daisy
MH	<i>Vittadinia cuneata</i>	Fuzzy New Holland-daisy
SH	<i>Cymbonotus preissianus</i>	Austral Bear's-ear
SH	<i>Myriophyllum integrifolium</i>	Tiny Water-milfoil
SH	<i>Phyllangium divergens</i>	Wiry Mitrewort
LTG	<i>Juncus pallidus</i>	Pale Rush
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Isolepis platycarpa</i>	Broad-fruit Club-sedge
MTG	<i>Pentapogon quadrifidus</i>	Five-awned Spear-grass
MTG	<i>Burchardia umbellata</i>	Milkmaids
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
TTG	<i>Centrolepis fascicularis</i>	Tufted Centrolepis

# EVC 235: Plains Woodland/Herb-rich Gilgai Wetland Mosaic - Central Victorian Uplands bioregion

**Recruitment:**

Continuous

**Organic Litter:**

20 % 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>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
MH	<i>Arctotheca calendula</i>	Cape Weed	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
TTG	<i>Cyperus tenellus</i>	Tiny Flat-sedge	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands 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.	80 cm	15 / ha

#### Tree Canopy Cover:

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

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	2	30%	MS
Small Shrub	3	15%	SS
Medium Herb	2	1%	MH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	1	1%	MTG
Bryophytes/Lichens	na	10%	BL
<b>Total understorey projective foliage cover</b>		<b>45%</b>	

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia mearnsii</i>	Black Wattle
MS	<i>Leptospermum myrsinoides</i>	Heath Tea-tree
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Leucopogon ericoides</i>	Pink Beard-heath
MS	<i>Banksia marginata</i>	Silver Banksia
SS	<i>Hibbertia stricta</i> s.l.	Upright Guinea-flower
SS	<i>Platylobium obtusangulum</i>	Common Flat-pea
SS	<i>Pultenaea humilis</i>	Dwarf Bush-pea
SS	<i>Isopogon ceratophyllus</i>	Horny Cone-bush
MH	<i>Drosera peltata</i> ssp. <i>auriculata</i>	Tall Sundew
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
MTG	<i>Lepidosperma semiteres</i>	Wire Rapier-sedge

#### Recruitment:

Continuous

#### Organic Litter:

20 % cover

#### Logs:

15 m/0.1 ha.

#### Weediness:

There are no consistent weeds in this EVC.

# EVC 282: Shrubby Woodland - Central Victorian Uplands bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 292: Red Gum Swamp

#### Description:

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

#### Large trees:

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

#### Tree Canopy Cover:

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

#### Understorey:

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

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

# EVC 292: Red Gum Swamp - Central Victorian Uplands 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

## Central Victorian Uplands bioregion

### EVC 641: Riparian Woodland

#### Description:

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

#### Large trees:

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

#### Tree Canopy Cover:

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

#### Understorey:

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

#### LF Code

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

#### Common Name

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



# EVC 641: Riparian Woodland - Central Victorian Uplands bioregion

**Recruitment:**

Continuous

**Organic Litter:**

30% cover

**Logs:**

20m / 0.1 ha

**Weediness:**

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

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands 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 tricaratus</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	v <i>Helichrysum</i> aff. <i>rutidolepis</i> (Lowland Swamps)	Pale Swamp Everlasting
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 – Central Victorian Uplands bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands 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 microcarpa</i>	Grey Box
	<i>Allocasuarina luehmannii</i>	Buloke
	<i>Eucalyptus melliodora</i>	Yellow Box
	<i>Eucalyptus leucoxylon</i>	Yellow Gum

#### 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	20%	MH
Small or Prostrate Herb	4	10%	SH
Large Tufted Graminoid	1	1%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	16	45%	MTG
Medium to Tiny Non-tufted Graminoid	3	5%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

#### Recruitment:

Continuous

#### Organic Litter:

10 % cover

#### Logs:

10 m/0.1 ha.

# EVC 803: Plains Woodland – Central Victorian Uplands 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 s.l.</i>	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 bigeniculata</i>	Kneed Spear-grass
MTG	<i>Austrostipa scabra</i>	Rough Spear-grass
MTG	<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass
MTG	<i>Dianella revoluta s.s.</i>	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

## Central Victorian Uplands bioregion

### EVC 851: Stream-Bank Shrubland

#### Description:

Rivers and major streams where the watercourse consists of either rocky banks, a flat rocky stream bed or broad gravel banks which are often dry but are also regularly flooded by fast flowing waters. Annual rainfall is usually below 700 mm. There is a sparse overstorey of trees to 20 m tall, a dominant tall shrub layer and a ground layer of sedges and herbs.

#### 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 globulus</i> ssp. <i>pseudoglobulus</i>	Gippsland Blue-gum

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	10%	T
Medium Shrub	10	40%	MS
Large Herb	4	5%	LH
Medium Herb	9	20%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	3	15%	LTG
Medium to Small Tufted Graminoid	3	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
Ground Fern	1	1%	GF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL

# EVC 851: Stream-Bank Shrubland - Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Pomaderris aspera</i>	Hazel Pomaderris
MS	<i>Cassinia aculeata</i>	Common Cassinia
MS	<i>Dodonaea viscosa</i> ssp. <i>cuneata</i>	Wedge-leaf Hop-bush
MS	<i>Acacia verticillata</i>	Prickly Moses
LH	<i>Chrysocephalum semipapposum</i>	Clustered Everlasting
LH	<i>Myriophyllum crispatum</i>	Upright Water-milfoil
LH	<i>Epilobium billardierianum</i> ssp. <i>cinereum</i>	Grey Willow-herb
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
MH	<i>Geranium potentilloides</i>	Cinquefoil Cranesbill
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Oxalis exilis</i>	Shady Wood-sorrel
SH	<i>Goodenia lanata</i>	Trailing Goodenia
SH	<i>Leptinella filicula</i>	Mountain Cotula
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Carex polyantha</i>	River Sedge
LTG	<i>Juncus gregiflorus</i>	Green Rush
LTG	<i>Carex appressa</i>	Tall Sedge
MTG	<i>Poa labillardierei</i>	Common Tussock-grass
MTG	<i>Luzula meridionalis</i> var. <i>flaccida</i>	Common Woodrush
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Isolepis inundata</i>	Swamp Club-sedge
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Echinopogon ovatus</i>	Common Hedgehog-grass
GF	<i>Cheilanthes austrotenuifolia</i>	Green Rock-fern
GF	<i>Adiantum aethiopicum</i>	Common Maidenhair
SC	<i>Glycine clandestina</i>	Twining Glycine
SC	<i>Clematis microphylla</i>	Small-leaved Clematis
SC	<i>Clematis aristata</i>	Mountain Clematis

## Recruitment:

Continuous

## Organic Litter:

20 % cover

## Logs:

10 m/0.1 ha.

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Lycium ferocissimum</i>	African Box-thorn	low	high
MS	<i>Ulex europaeus</i>	Gorse	low	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Centaurea erythraea</i>	Common Centaury	high	low
MH	<i>Cerastium glomeratum</i> s.l.	Common Mouse-ear Chickweed	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MTG	<i>Ehrharta longiflora</i>	Annual Veldt-grass	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands 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 – Central Victorian Uplands 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</i> s.l.	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</i> ssp. <i>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</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Microtis unifolia</i>	Common Onion-orchid
TTG	<i>Centrolepis aristata</i>	Pointed Centrolepis
TTG	<i>Centrolepis strigosa</i> ssp. <i>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.

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</i> var. <i>campestre</i>	Hop Clover	high	low
MH	<i>Centaurea 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 caryophylla</i>	Silvery Hair-grass	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 894: Scoria Cone Woodland

#### Description:

Eucalypt woodland to 15 m tall or non-eucalypt woodland to 10 m tall over a grassy to bracken-dominated understorey with a range of herbs. Occurs on the slopes of freely-draining scoria cones and spatter areas of more coarse boulder-forming flow sources. Soils are fertile but often skeletal.

#### Large trees:

Species	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	70 cm	15 / ha
<i>Allocasuarina</i> spp.	50 cm	

#### Tree Canopy Cover:

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

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	2	10%	MS
Large Herb	3	5%	LH
Medium Herb	6	10%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	1	15%	LTG
Medium to Small Tufted Graminoid	4	15%	MTG
Medium to Tiny Non-tufted Graminoid	1	5%	MNG
Ground Fern	2	20%	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
MS	<i>Bursaria spinosa</i>	Sweet Bursaria
LH	<i>Senecio pinnatifolius</i>	Variable Groundsel
LH	<i>Rumex brownii</i>	Wiry Dock
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
MH	<i>Geranium potentilloides</i>	Cinquefoil Cranesbill
MH	<i>Acaena echinata</i>	Sheep's Burr
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Oxalis exilis</i>	Shady Wood-sorrel
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MTG	<i>Carex breviculmis</i>	Short-stem Sedge
MTG	<i>Austrodanthonia pilosa</i>	Velvet Wallaby-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken



# EVC 894: Scoria Cone Woodland – Central Victorian Uplands bioregion

**Recruitment:**

Continuous

**Organic Litter:**

20 % cover

**Logs:**

10 m/0.1 ha

**Weediness:**

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Lycium ferocissimum</i>	African Box-thorn	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 895: Escarpment Shrubland

#### Description:

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

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

#### Large trees<sup>+</sup>:

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

#### Canopy Cover:

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

#### Understorey:

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

#### LF Code

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

MS	r	<i>Rhagodia parabolica</i>
MS		<i>Hymenanthera dentata</i> s.l.
SS		<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>
LH		<i>Wahlenbergia communis</i> s.l.
MH		<i>Oxalis perennans</i>
MH		<i>Maireana enchylaenoides</i>
MH		<i>Einadia nutans</i> ssp. <i>nutans</i>
SH		<i>Chamaesyce drummondii</i>
SH		<i>Dichondra repens</i>
LTG		<i>Austrostipa bigeniculata</i>
MTG		<i>Austrodanthonia racemosa</i> var. <i>racemosa</i>
MTG		<i>Austrodanthonia setacea</i>
MNG		<i>Panicum effusum</i>
GF		<i>Cheilanthes distans</i>
SC		<i>Clematis microphylla</i>
SC		<i>Convolvulus erubescens</i> spp. agg.

#### Common Name

Fragrant Saltbush
Tree Violet
Ruby Saltbush
Tufted Bluebell
Grassland Wood-sorrel
Wingless Bluebush
Nodding Saltbush
Flat Spurge
Kidney-weed
Knead Spear-grass
Striped Wallaby-grass
Bristly Wallaby-grass
Hairy Panic
Bristly Cloak-fern
Small-leaved Clematis
Pink Bindweed

# EVC 895: Escarpment Shrubland - Central Victorian Uplands bioregion

## Recruitment:

Continuous

## Organic Litter:

20 % cover

## Logs:

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

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

## Weediness:

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

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## EVC/Bioregion Benchmark for Vegetation Quality Assessment

### Central Victorian Uplands Bioregion

#### EVC 895\_61: Treed Escarpment Shrubland

##### Description:

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

##### Large Trees:

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

##### Tree Canopy Cover:

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

##### Understorey:

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

# EVC 895\_61: Treed Escarpment Shrubland

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

## Recruitment:

Continuous.

## Organic Litter:

20 % cover

## Logs:

15 m/0.1ha.

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Genista monspessulana</i>	Montpellier Broom	high	high
MS	<i>Lycium ferocissimum</i>	African Box-thorn	high	high
MTG	<i>Nassella trichotoma</i>	Serrated Tussock	high	high
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
LTG	<i>Phalaris aquatica</i>	Toowoomba Canary-grass	high	high
SH	<i>Aptenia cordifolia</i>	Heart-leaf Ice-plant	high	high
LH	<i>Verbascum thapsus subsp. thapsus</i>	Great Mullein	high	high
LH	<i>Echium plantagineum</i>	Paterson's Curse	high	high
LH	<i>Foeniculum vulgare</i>	Fennel	high	high
SS	<i>Marrubium vulgare</i>	Horehound	high	high
MTG	<i>Dactylis glomerata</i>	Cocksfoot	high	high
LH	<i>Sisymbrium officinale</i>	Hedge Mustard	high	high
T	<i>Schinus molle</i>	Pepper Tree	high	high
LH	<i>Helminthotheca echinoides</i>	Ox-tongue	high	high
MTG	<i>Sporobolus africanus</i>	Rat-tail Grass	high	high
MTG	<i>Lolium perenne</i>	Perennial Rye-grass	high	high
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Pentstemon airoides subsp. airoides</i>	False Hair-grass	high	low
MTG	<i>Vulpia myuros</i>	Rat's-tail Fescue	high	low
MTG	<i>Bromus rubens</i>	Red Brome	high	low
MTG	<i>Avena barbata</i>	Bearded Oat	high	low
MTG	<i>Aira caryophyllaea</i>	Silvery Hair-grass	high	low
LH	<i>Lactuca serriola</i>	Prickly Lettuce	high	low
LH	<i>Sonchus asper s.l.</i>	Rough Sow-thistle	high	low
MH	<i>Trifolium arvense var. arvense</i>	Hare's-foot Clover	high	low
MH	<i>Trifolium campestre var. campestre</i>	Hop Clover	high	low
MH	<i>Lotus subbiflorus</i>	Hairy Bird's-foot Trefoil	high	low



# EVC 895\_61: Treed Escarpment Shrubland

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
SH	<i>Medicago polymorpha</i>	Burr Medic	high	low
SH	<i>Modiola caroliniana</i>	Red-flower Mallow	high	low
LNG	<i>Avena fatua</i>	Wild Oat	high	low
MTG	<i>Ehrharta longiflora</i>	Annual Veldt-grass	high	low
MH	<i>Cerastium glomeratum s.l.</i>	Common Mouse-ear Chickweed	high	low
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Centaurium tenuiflorum</i>	Slender Centaury	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Trifolium subterraneum</i>	Subterranean Clover	high	low
SC	<i>Vicia sativa subsp. sativa</i>	Common Vetch	high	low
SH	<i>Trifolium glomeratum</i>	Cluster Clover	high	low
MH	<i>Trifolium angustifolium var. angustifolium</i>	Narrow-leaf Clover	high	low
MTG	<i>Bromus hordeaceus subsp. hordeaceus</i>	Soft Brome	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Central Victorian Uplands bioregion

### EVC 937: Swampy Woodland

#### Description:

Open eucalypt woodland to 15 m tall with ground-layer dominated by tussock grasses and/or sedges and often rich in herbs. Occurs on poorly drained, seasonally waterlogged heavy soils, primarily on swamp deposits but extending to suitable substrates within some landscapes of sedimentary origin.

#### 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 radiata</i> s.l.	Narrow-leaf Peppermint
	<i>Eucalyptus camphora</i> ssp. <i>humeana</i>	Mountain Swamp 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	4	20%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	2	10%	LH
Medium Herb	5	10%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	2	10%	LTG
Large Non-tufted Graminoid	1	10%	LNG
Medium to Small Tufted Graminoid	3	10%	MTG
Medium to Small Non-tufted Graminoid	2	5%	MNG
Ground Fern	2	10%	GF
Bryophytes/Lichens	na	20%	BL

# EVC 937: Swampy Woodland - Central Victorian Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Melaleuca ericifolia</i>	Swamp Paperbark
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Ozothamnus ferrugineus</i>	Tree Everlasting
MS	<i>Epacris impressa</i>	Common Heath
SS	<i>Hibbertia riparia</i>	Erect Guinea-flower
PS	<i>Hibbertia procumbens</i>	Spreading Guinea-flower
LH	<i>Pterostylis longifolia</i> s.l.	Tall Greenhood
LH	<i>Stackhousia viminea</i>	Slender Stackhousia
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Mazus pumilio</i>	Swamp Mazus
MH	<i>Gratiola peruviana</i>	Austral Brooklime
MH	<i>Centella cordifolia</i>	Centella
SH	<i>Opercularia varia</i>	Variable Stinkweed
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LTG	<i>Austrostipa pubinodis</i>	Tall Spear-grass
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
LNG	<i>Lepidosperma longitudinale</i>	Pithy Sword-sedge
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MNG	<i>Poa tenera</i>	Slender Tussock-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Lepyrodia muelleri</i>	Common Scale-rush
MNG	<i>Empodisma minus</i>	Spreading Rope-rush
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Lindsaea linearis</i>	Screw Fern
SC	<i>Cassytha glabella</i>	Slender Dodder-laurel
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
MS	<i>Rubus</i> sp. aff. <i>armeniacus</i>	Blackberry	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high

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