

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

 Eucalyptus spp.
 70 cm
 15 / ha

### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name20%Eucalyptus melliodora<br/>Eucalyptus goniocalyx s.l.Yellow Box<br/>Bundy

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	4	20%	MS
Prostrate Shrub	1	1%	PS
Large Herb	2	5%	LH
Medium Herb	6	15%	MH
Small or Prostrate Herb	5	10%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	7	20%	MTG
Medium to Tiny Non-tufted Graminoid	1	5%	MNG
Scrambler or Climber	2	5%	SC
Ground Fern	1	10%	GF
Bryophytes/Lichens	na	10%	BL

T T MS MS	Species typical of at least part of EVC range Exocarpos cupressiformis Acacia mearnsii Kunzea ericoides Acacia paradoxa	Common Name Cherry Ballart Black Wattle Burgan Hedge Wattle
MS	Leptospermum continentale	Prickly Tea-tree
PS	Astroloma humifusum	Cranberry Heath
MH	Gonocarpus tetragynus	Common Raspwort
MH	Drosera peltata ssp. auriculata	Tall Sundew
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH	Geranium solanderi s.l.	Austral Cranesbill
SH	Dichondra repens	Kidney-weed
SH	Kennedia prostrata	Running Postman
SH SH MTG	Opercularia varia Poranthera microphylla Poa sieberiana	Variable Stinkweed Small Poranthera
MTG	Poa sieperiana	Grey Tussock-grass
MTG	Themeda triandra	Kangaroo Grass
MTG	Austrodanthonia penicillata	Slender Wallaby-grass
MNG	Microlaena stipoides var. stipoides	Weeping Grass
GF	Pteridium esculentum	Austral Bracken
SC	Clematis microphylla	Small-leaved Clematis



# EVC 3: Damp Sands Herb-rich Woodland Highlands – Southern Fall bioregion

### **Recruitment:**

Continuous

#### **Organic Litter:**

40 % cover

15 m/0.1 ha.

#### Weediness:

LF Code	Typical Weed Species	<b>Common Name</b>	Invasive	Impact
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high
MTG	Ehrharta erecta var. erecta	Panic Veldt-grass	high	high

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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.

#### **Understorev**:

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	Epacris impressa	Common Heath
MS	Leptospermum continentale	Prickly Tea-tree
MS	Hakea sericea s.l.	Bushy Needlewood
MS	Cassinia longifolia	Shiny Cassinia
SS	Dampiera stricta	Blue Dampiera
SS	Pimelea humilis	Common Rice-flower
SS	Gompholobium huegelii	Common Wedge-pea
SS	Rhytidosporum procumbens	White Marianth
PS	Acrotriche serrulata	Honey-pots
PS	Bossiaea prostrata	Creeping Bossiaea
MH	Lagenophora gracilis	Slender Bottle-daisy
MH	Gonocarpus tetragynus	Common Raspwort
MH	Hypericum gramineum	Small St John's Wort
SH	Mitrasacme serpyllifolia	Thyme Mitrewort
LTG	Deyeuxia quadriseta	Reed Bent-grass
LTG	Xanthorrhoea minor ssp. lutea	Small Grass-tree
LNG	Gahnia radula	Thatch Saw-sedge
MTG	Schoenus apogon	Common Bog-sedge
MTG	Poa sieberiana	Grey Tussock-grass
MTG	Lepidosperma laterale	Variable Sword-sedge
MTG	Poa sieberiana var. sieberiana	Grey Tussock-grass
MNG	Microlaena stipoides var. stipoides	Weeping Grass
MNG	Caustis flexuosa	Curly Wig

### **Recruitment:**

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

#### **Organic Litter:**

20% Cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	Hypochoeris radicata	Cat's Ear	hiah	low



# EVC 7: Clay Heathland Highlands – Southern Fall bioregion

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# **EVC 8: Wet Heathland**

### **Description:**

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

### **Understorey:**

Life form	#Spp	%Cover	LF code
Medium Shrub	7	30%	MS
Small Shrub	3	5%	SS
Large Herb	2	5%	LH
Medium Herb	4	5%	MH
Large Tufted Graminoid	2	10%	LTG
Large Non-tufted Graminoid	3	10%	LNG
Medium to Small Tufted Graminoid	4	10%	MTG
Medium to Tiny Non-tufted Graminoid	3	10%	MNG
Ground Fern	1	1%	GF
Scrambler or Climber	2	10%	SC
Bryophytes/Lichens	na	20%	BL

LF Code	Species typical of at least part of EVC range	<b>Common Name</b>
MS	Leptospermum continentale	Prickly Tea-tree
MS	Hakea nodosa	Yellow Hakea
MS	Melaleuca squarrosa	Scented Paperbark
MS	Leptospermum lanigerum	Woolly Tea-tree
SS	Bauera rubioides	Wiry Bauera
PS	Xanthosia dissecta s.l.	Cut-leaf Xanthosia
LH	Xyris operculata	Tall Yellow-eye
MH	Gonocarpus tetragynus	Common Raspwort
MH	Selaginella uliginosa	Swamp Selaginella
LTG	Gahnia sieberiana	Red-fruit Saw-sedge
LTG	Deyeuxia quadriseta	Reed Bent-grass
LNG	Gahnia radula	Thatch Saw-sedge
LNG	Austrostipa muelleri	Wiry Spear-grass
LNG	Tetrarrhena juncea	Forest Wire-grass
LNG	Baumea rubiginosa s.l.	Soft Twig-rush
MTG	Lepidosperma filiforme	Common Rapier-sedge
MTG	Tetraria capillaris	Hair Sedge
MTG	Patersonia fragilis	Short Purple-flag
MNG	Empodisma minus	Spreading Rope-rush
MNG	Baumea tetragona	Square Twig-sedge
MNG	Poa tenera	Slender Tussock-grass
GF	Lindsaea linearis	Screw Fern
SC	Gleichenia dicarpa	Pouched Coral-fern
SC	Cassytha glabella	Slender Dodder-laurel

### **Recruitment:**

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

# **Organic Litter:**

20% cover

#### Weediness:

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



# **EVC 8: Wet Heathland** Highlands – Southern Fall bioregion

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# **EVC 15: Limestone Box Forest**

### Description:

Occurs on generally well developed terra rossa soils derived from Tertiary limestones that outcrop around coastal streams, gullies and lakes. Open eucalypt forest to 20 m tall with a tall shrub layer understorey and a grass and herb-rich ground layer on sheltered aspects but may be almost completely bare on drier aspects.

### Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 20 / ha

### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name30%Eucalyptus botryoides<br/>Eucalyptus bauerianaSouthern Mahogany<br/>Blue Box

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



# **EVC 15: Limestone Box Forest** Highlands - Southern Fall bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	Rapanea howittiana	Mutton-wood
T	Pomaderris aspera	Hazel Pomaderris
MS	Olearia lirata	Snowy Daisy-bush
MS	Coprosma quadrifida	Prickly Currant-bush
MS	Melaleuca ericifolia	Swamp Paperbark
MS	Cassinia longifolia	Shiny Cassinia
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH	Solanum prinophyllum	Forest Nightshade
MH	Geranium potentilloides	Cinquefoil Cranesbill
MH	Veronica calycina	Hairy Speedwell
SH	Dichondra repens	Kidney-weed
SH	Oxalis corniculata s.l.	Yellow Wood-sorrel
SH	Desmodium gunnii	Southern Tick-trefoil
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LTG	Gahnia melanocarpa	Black-fruit Saw-sedge
LNG	Gahnia radula	Thatch Saw-sedge
MTG	Lepidosperma laterale	Variable Sword-sedge
MTG	Schoenus apogon	Common Bog-sedge
MTG	Dianella caerulea var. caerulea	Paroo Lily
MTG	Dianella tasmanica	Tasman Flax-lily
MNG	Microlaena stipoides var. stipoides	Weeping Grass
MNG	Oplismenus hirtellus	Australian Basket-grass
MNG	Poa tenera	Slender Tussock-grass
MNG	Echinopogon ovatus	Common Hedgehog-grass
GF	Pteridium esculentum	Austral Bracken
GF	Calochlaena dubia	Common Ground-fern
GF	Pellaea falcata s.l.	Sickle Fern
GF	Adiantum aethiopicum	Common Maidenhair
SC	Tylophora barbata	Bearded Tylophora
SC	Eustrephus latifolius	Wombat Berry
SC	Glycine clandestina	Twining Glycine
SC	Clematis glycinoides var. glycinoides	Forest Clematis

### Recruitment:

Continuous

# Organic Litter:

40 % cover

### Logs:

15 m/0.1 ha.

### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Cirsium vulgare	Spear Thistle	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Cerastium glomeratum s.l.	Common Mouse-ear Chickweed	high	low

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

#### Large trees:

DBH(cm) #/ha **Species** Eucalyptus spp. 70 cm 20 / ha

### **Tree Canopy Cover:**

%cover **Character Species** Eucalyptus obliqua Eucalyptus radiata s.l. Eucalyptus sieberi Eucalyptus dives

# **Common Name**

**Common Name** 

Common Heath

Weeping Grass Austral Bracken

Common Apple-berry

Screw Fern

Messmate Stringybark Narrow-leaf Peppermint Silvertop Ash Broad-leaved Peppermint

### **Understorey:**

**LF Code** 

MNG

GF

GF

SC

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	ΙΤ
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	9	30%	MS
Small Shrub	3	5%	SS
Prostrate Shrub	2	1%	PS
Large Herb	2	1%	LH
Medium Herb	5	10%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	2	10%	LNG
Medium to Small Tufted Graminoid	4	10%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	2	10%	GF
Scrambler or Climber	2	1%	SC
Bryophytes/Lichens	na	10%	BL

Species typical of at least part of EVC range

MS	Leptospermum continentale	Prickly Tea-tree
MS	Pultenaea gunnii	Golden Bush-pea
MS	Acacia mucronata ssp. longifolia	Narrow-leaf Wattle
SS	Amperea xiphoclada var. xiphoclada	Broom Spurge
SS	Lomatia ilicifolia	Holly Lomatia
PS	Acrotriche prostrata	Trailing Ground-berry
MH	Gonocarpus tetragynus	Common Raspwort
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
SH	Goodenia lanata	Trailing Goodenia
LTG	Xanthorrhoea minor ssp. lutea	Small Grass-tree
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LNG	Gahnia radula	Thatch Saw-sedge
LNG	Tetrarrhena juncea	Forest Wire-grass
MTG	Joycea pallida	Silvertop Wallaby-grass
MTG	Poa australis spp. agg.	Tussock Grass
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Lepidosperma laterale	Variable Sword-sedge
MTG	Dianella revoluta s.l.	Black-anther Flax-lily



Lindsaea linearis

Pteridium esculentum

Billardiera scandens

Microlaena stipoides var. stipoides

Epacris impressa

# **EVC 16: Lowland Forest** Highlands – Southern Fall bioregion

#### **Recruitment:**

Continuous

#### **Organic Litter:**

40 % cover

### Logs:

20 m/0.1 ha.

# Weediness:

LF Code **Typical Weed Species Common Name** Invasive **Impact** Hypochoeris radicata Cat's Ear high low

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

### Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 90 cm
 20 / ha

### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name40%Eucalyptus obliqua<br/>Eucalyptus viminalisMessmate Stringybark<br/>Manna Gum

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



# EVC 18: Riparian Forest Highlands – Southern Fall bioregion

LF Code	Species typical of at least part of EVC range	<b>Common Name</b>
T	Acacia dealbata	Silver Wattle
T	Pomaderris aspera	Hazel Pomaderris
T	Acacia melanoxylon	Blackwood
MS	Coprosma quadrifida	Prickly Currant-bush
MS	Prostanthera lasianthos	Victorian Christmas-bush
MS	Goodenia ovata	Hop Goodenia
MS	Olearia lirata	Snowy Daisy-bush
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH	Acaena novae-zelandiae	Bidgee-widgee
MH	Hydrocotyle hirta	Hairy Pennywort
MH	Geranium potentilloides	Cinquefoil Cranesbill
SH	Oxalis corniculata s.l.	Yellow Wood-sorrel
LTG	Carex appressa	Tall Sedge
LTG	Lepidosperma elatius	Tall Sword-sedge
LTG	Gahnia sieberiana	Red-fruit Saw-sedge
LNG	Tetrarrhena juncea	Forest Wire-grass
MTG	Poa australis spp. agg.	Tussock Grass
MTG	Dianella tasmanica	Tasman Flax-lily
MTG	Isolepis inundata	Swamp Club-sedge
MNG	Poa tenera	Slender Tussock-grass
MNG	Microlaena stipoides var. stipoides	Weeping Grass
GF	Blechnum nudum	Fishbone Water-fern
GF	Pteridium esculentum	Austral Bracken
GF	Blechnum wattsii	Hard Water-fern
GF	Polystichum proliferum	Mother Shield-fern
TRF	Cyathea australis	Rough Tree-fern
SC	Clematis aristata	Mountain Clematis

#### **Recruitment:**

Continuous

### **Organic Litter:**

50 % cover

# Logs:

30 m/0.1 ha.

# Weediness:

LF Code	Typical Weed Species	<b>Common Name</b>	Invasive	Impact
MS	Rubus fruticosus spp. agg.	Blackberry	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Prunella vulgaris	Self-heal	high	low

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# 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	Character Species	Common Name
40%	Acacia melanoxylon	Blackwood
	Acacia silvestris	Red Wattle

### **Understorev:**

Jilderstoley:			
Life form	#Spp	%Cover	LF code
Medium Shrub	4	20%	MS
Small Shrub	1	5%	SS
Large Herb	5	5%	LH
Medium Herb	4	10%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	1	10%	LTG
Medium to Small Tufted Graminoid	1	1%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	6	15%	GF
Tree Fern	1	1%	TRF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	20 %	BL
Total understorey projective foliage cover		85%	

# Total understorey projective foliage cover

	,, ,	
LF Code	Species typical of at least part of EVC range	<b>Common Name</b>
MS	Cassinia longifolia	Shiny Cassinia
MS	Goodia lotifolia	Golden Tip
MS	Prostanthera lasianthos	Victorian Christmas-bush
SS	Rubus parvifolius	Small-leaf Bramble
LH	Senecio linearifolius	Fireweed Groundsel
LH	Urtica incisa	Scrub Nettle
MH	Geranium potentilloides	Cinquefoil Cranesbill
MH	Poranthera microphylla	Small Poranthera
SH	Dichondra repens	Kidney-weed
SH	Oxalis corniculata s.l.	Yellow Wood-sorrel
SH	Chiloglottis gunnii s.l.	Common Bird-orchid
LTG	Carex polyantha	River Sedge
MTG	Dianella tasmanica	Tasman Flax-lily
MNG	Luzula campestris spp. agg.	Field Woodrush
GF	Doodia australis	Common Rasp-fern
GF	Pteridium esculentum	Austral Bracken
GF	Hypolepis muelleri	Harsh Ground-fern
GF	Blechnum nudum	Fishbone Water-fern
TRF	Cyathea australis	Rough Tree-fern
SC	Cassytha melantha	Coarse Dodder-laurel
SC	Clematis aristata	Mountain Clematis



# EVC 19: Riparian Shrubland Highlands – Southern Fall bioregion

### **Recruitment:**

Continuous

### **Organic Litter:**

40% cover

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

#### Weediness:

Weeumess.				
LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Rosa rubiginosa	Sweet Briar	low	high
MS	Rubus fruticosus spp. agg.	Blackberry	high	high
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Sonchus asper s.l.	Rough Sow-thistle	high	low
LH	Solanum nigrum sensu Willis (1972)	Black Nightshade	high	high
LH	Conyza bonariensis	Flaxleaf Fleabane	high	high
LH	Centaurium tenuiflorum	Slender Centaury	high	low
LH	Verbena bonariensis s.l.	Purple-top Verbena	high	high
LH	Hypericum perforatum	St John's Wort	high	high
LH	Carduus tenuiflorus	Winged Thistle	high	high
LH	Cirsium vulgare	Spear Thistle	high	high
LH	Carduus pycnocephalus	Slender Thistle	high	high
LH	Verbascum virgatum	Twiggy Mullein	high	high
MH	Stellaria media	Chickweed	high	low
MH	Trifolium striatum	Knotted Clover	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Petrorhagia nanteuilii	Childling Pink	high	low
MH	Anagallis arvensis	Pimpernel	high	low
MH	Arenaria leptoclados	Lesser Thyme-leaved Sandwort	high	low
MH	Trifolium arvense var. arvense	Hare's-foot Clover	high	low
MH	Trifolium dubium	Suckling Clover	high	low
MH	Linaria pelisseriana	Pelisser's Toad-flax	high	low
MH	Hypochoeris glabra	Smooth Cat's-ear	high	low
MH	Acetosella vulgaris	Sheep Sorrel	high	high
MH	Cerastium glomeratum s.l.	Common Mouse-ear Chickweed	high	low
MH	Gamochaeta purpurea s.l.	Purple Cudweed	high	low
MH	Arctotheca calendula	Cape Weed	high	low
MH	Trifolium campestre var. campestre	Hop Clover	high	low
MH	Euphorbia lathyrus	Caper Spurge	high	high
MH	Silene gallica	French Catchfly	high	low
MH	Prunella vulgaris	Self-heal	high	high
MH	Centaurium erythraea	Common Centaury	high	low
MH	Polycarpon tetraphyllum	Four-leaved Allseed	high	low
SH	Trifolium glomeratum	Cluster Clover	high	low
SH	Trifolium repens var. repens	White Clover	high	high
SH	Medicago polymorpha	Burr Medic	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Poa annua	Annual Meadow-grass	high	low
MTG	Bromus diandrus	Great Brome	high	low
MTG	Bromus hordeaceus ssp. hordeaceus	Soft Brome	high	low
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MNG	Aira caryophyllea	Silvery Hair-grass	high	low
SC	Galium aparine	Cleavers	high	low

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

### Large trees:

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

### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name30%Eucalyptus divesBroad-leaved PeppermintEucalyptus cypellocarpaMountain Grey-gumEucalyptus radiata s.l.Narrow-leaf Peppermint

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	9	30%	MS
Small Shrub	4	15%	SS
Prostrate Shrub	2	5%	PS
Large Herb	2	5%	LH
Medium Herb	5	10%	MH
Small or Prostrate Herb	1	5%	SH
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	6	20%	MTG
Ground Fern	2	5%	GF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

MS MS MS MS SS SS SS SS PS PS MH MH LNG MTG MTG MTG GF	Species typical of at least part of EVC range Monotoca scoparia Epacris impressa Daviesia ulicifolia Persoonia confertiflora Dillwynia phylicoides Tetratheca ciliata Hovea heterophylla Hibbertia obtusifolia Platylobium formosum Acrotriche serrulata Gonocarpus tetragynus Viola hederacea sensu Willis (1972) Tetrarrhena juncea Dianella revoluta s.l. Joycea pallida Poa australis spp. agg. Lomandra filiformis Pteridium esculentum	Common Name Prickly Broom-heath Common Heath Gorse Bitter-pea Cluster-flower Geebung Small-leaf Parrot-pea Pink-bells Common Hovea Grey Guinea-flower Handsome Flat-pea Honey-pots Common Raspwort Ivy-leaf Violet Forest Wire-grass Black-anther Flax-lily Silvertop Wallaby-grass Tussock Grass Wattle Mat-rush Austral Bracken
MTG	,, 55	Wattle Mat-rush
SC	Cassytha pubescens s.s.	Downy Dodder-laurel
SC	Hardenbergia violacea	Purple Coral-pea



# EVC 20: Heathy Dry Forest Highlands – Southern Fall bioregion

### **Recruitment:**

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

### **Organic Litter:**

20 % cover

#### Logs:

20 m/0.1 ha.

# Weediness:

LF Code **Typical Weed Species Common Name** Invasive **Impact** Hypochoeris radicata Cat's Ear high

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# 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. 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

 Eucalyptus spp.
 70 cm
 20 / ha

### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name30%Eucalyptus cypellocarpa<br/>Eucalyptus obliqua<br/>Eucalyptus radiata s.l.Mountain Grey-gum<br/>Messmate Stringybark<br/>Narrow-leaf Peppermint

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	ΙΤ
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	8	30%	MS
Small Shrub	3	15%	SS
Prostrate Shrub	1	1%	PS
Large Herb	4	5%	LH
Medium Herb	8	10%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	4	15%	MTG
Medium to Tiny Non-tufted Graminoid	1	5%	MNG
Ground Fern	2	10%	GF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

LF Code	Charles trained of at least want of EVC ways	Common Name
	Species typical of at least part of EVC range	Common Name
T	Pomaderris aspera	Hazel Pomaderris
MS	Coprosma quadrifida	Prickly Currant-bush
MS	Pimelea axiflora	Bootlace Bush
MS	Olearia phlogopappa	Dusty Daisy-bush
MS	Acacia mucronata ssp. longifolia	Narrow-leaf Wattle
SS	Olearia megalophylla	Large-leaf Daisy-bush
SS	Tetratheca pilosa	Hairy Pink-bells
MH	Gonocarpus tetragynus	Common Raspwort
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH	Veronica calycina	Hairy Speedwell
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LTG	Gahnia sieberiana	Red-fruit Saw-sedge
LNG	Tetrarrhena juncea	Forest Wire-grass
MTG	Dianella tasmanica	Tasman Flax-lily
MNG	Microlaena stipoides var. stipoides	Weeping Grass
GF	Pteridium esculentum	Austral Bracken
SC	Clematis aristata	Mountain Clematis



# EVC 21: Shrubby Dry Forest Highlands – Southern Fall bioregion

### **Recruitment:**

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

### **Organic Litter:**

30 % cover

### Logs:

20 m/0.1 ha.

# Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Cerastium glomeratum s.l.	Common Mouse-ear Chickweed	high	low

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Occurs on a variety of gradients and altitudes and on a range of geologies. The overstorey is dominated by a low to medium height open forest of eucalypts to 20 m tall, sometimes resembling a woodland. 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

 Eucalyptus spp.
 60 cm
 20 / ha

### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name30%Eucalyptus macrorhyncha<br/>Eucalyptus goniocalyx s.l.<br/>Eucalyptus polyanthemosRed Stringybark<br/>Bundy<br/>Red Box

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	7	10%	MS
Small Shrub	4	10%	SS
Prostrate Shrub	2	1%	PS
Large Herb	2	1%	LH
Medium Herb	11	20%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	7	25%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	1	5%	GF
Scrambler or Climber	3	5%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C



# EVC 22: Grassy Dry Forest Highlands – Southern Fall bioregion

LF Code  T  MS  MS  MS  MS  SS  SS  SS  SS  PS  PS	Species typical of at least part of EVC range  Exocarpos cupressiformis  Cassinia aculeata  Acacia genistifolia  Daviesia leptophylla  Correa reflexa  Hovea heterophylla  Dillwynia cinerascens s.l.  Pimelea humilis  Leucopogon virgatus  Acrotriche serrulata  Astroloma humifusum	Common Name Cherry Ballart Common Cassinia Spreading Wattle Narrow-leaf Bitter-pea Common Correa Common Hovea Grey Parrot-pea Common Rice-flower Common Beard-heath Honey-pots
MH	Gonocarpus tetragynus	Cranberry Heath Common Raspwort
MH	Hypericum gramineum	Small St John's Wort
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
SH	Opercularia varia	Variable Stinkweed
SH	Dichondra repens	Kidney-weed
SH	Oxalis exilis	Shady Wood-sorrel
MTG	Joycea pallida	Silvertop Wallaby-grass
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Poa sieberiana	Grey Tussock-grass
MTG	Dianella revoluta s.l.	Black-anther Flax-lily
MNG	Microlaena stipoides var. stipoides	Weeping Grass
SC SC	Hardenbergia violacea Billardiera scandens	Purple Coral-pea Common Apple-berry
SC	Comesperma volubile	Love Creeper

### **Recruitment:**

Continuous

#### **Organic Litter:**

20 % cover

### Logs:

20 m/0.1 ha.

### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	Hypochoeris radicata	Cat's Ear	high	high
MH	Centaurium erythraea	Common Centaury	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high

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# 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 to 25 m tall with a large shrub or understorey tree layer over a sparse to dense medium shrub layer. A high cover and diversity of herbs and grasses in the ground layer which characterises this EVC.

### Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 20 / ha

### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name40%Eucalyptus radiata s.l.Narrow-leaf PeppermintEucalyptus obliquaMessmate StringybarkEucalyptus cypellocarpaMountain Grey-gum

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	7	20%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	4	5%	LH
Medium Herb	11	20%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	2	5%	LNG
Medium to Small Tufted Graminoid	5	20%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	3	10%	GF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	20%	BL

Species typical of at least part of EVC range	Common Name
Acacia melanoxylon	Blackwood
Coprosma quadrifida	Prickly Currant-bush
Cassinia aculeata	Common Cassinia
Epacris impressa	Common Heath
Olearia phlogopappa	Dusty Daisy-bush
Olearia megalophylla	Large-leaf Daisy-bush
Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
Gonocarpus tetragynus	Common Raspwort
Veronica calycina	Hairy Speedwell
Galium propinquum	Maori Bedstraw
Dichondra repens	Kidney-weed
Lomandra longifolia	Spiny-headed Mat-rush
Gahnia sieberiana	Red-fruit Saw-sedge
Gahnia radula	Thatch Saw-sedge
Lomandra filiformis	Wattle Mat-rush
Dianella tasmanica	Tasman Flax-lily
Stylidium graminifolium s.l.	Grass Trigger-plant
Microlaena stipoides var. stipoides	Weeping Grass
Pteridium esculentum	Austral Bracken
Clematis aristata	Mountain Clematis
Billardiera scandens	Common Apple-berry
	Acacia melanoxylon Coprosma quadrifida Cassinia aculeata Epacris impressa Olearia phlogopappa Olearia megalophylla Viola hederacea sensu Willis (1972) Gonocarpus tetragynus Veronica calycina Galium propinquum Dichondra repens Lomandra longifolia Gahnia sieberiana Gahnia radula Lomandra filiformis Dianella tasmanica Stylidium graminifolium s.l. Microlaena stipoides var. stipoides Pteridium esculentum Clematis aristata



# EVC 23: Herb-rich Foothill Forest Highlands – Southern Fall bioregion

### **Recruitment:**

Continuous

### **Organic Litter:**

40 % cover

20 m/0.1 ha.

### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Sonchus oleraceus	Common Sow-thistle	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high

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Occurs on northerly and westerly slopes of mountains and valleys. Trees are not a prominent feature, often present only as emergents or forming a very open woodland. The small tree or large shrub layer to 10 m tall is a dominant feature, often forming even-aged stands of uniform height. The ground layer is generally sparse and species-poor due to low site quality and the density of the overstorey. Vines can be conspicuous in the understorey.

### **Canopy Cover:**

%cover **Character Species Common Name** 40% Acacia silvestris Red Wattle Pomaderris aspera Hazel Pomaderris Exocarpos cupressiformis Cherry Ballart

### **Understorey:**

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	5	20%	MS
Medium Herb	2	1%	MH
Medium to Small Tufted Graminoid	3	5%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	2	5%	GF
Scrambler or Climber	2	1%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		45%	

# Total understorey projective foliage cover

.F Code	Species typical of at least part of EVC range	Co
MS	Philotheca trachyphylla	Roc
MS	Cassinia trinerva	Thr
MS	Kunzea ericoides	Bur
MS	Olearia lirata	Sno
MH	Stellaria flaccida	For
MTG	Dianella tasmanica	Tas
MTG	Notodanthonia longifolia	Lon
MNG	Microlaena stipoides var. stipoides	We
GF	Polystichum proliferum	Mot
GF	Asplenium flabellifolium	Nec
SC	Pandorea pandorana	Wo

### **Recruitment:**

Continuous

## **Organic Litter:**

40 % cover

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

There are no consistent weeds in this EVC.

### **Common Name**

ck Wax-flower ree-nerved Cassinia ırgan lowy Daisy-bush rest Starwort asman Flax-lily ong-leaf Wallaby-grass eeping Grass other Shield-fern ecklace Fern onga Vine



# EVC 27: Blackthorn Scrub Highlands – Southern Fall bioregion

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

### **Understorev:**

Life form	#Spp	%Cover	LF code
Medium Shrub	7	25%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	1	5%	PS
Large Herb	2	5%	LH
Medium Herb	2	1%	MH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	4	10%	MTG
Ground Fern	1	1%	GF
Bryophytes/Lichens	na	20%	BL
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		70%	

### Total understorey projective foliage cover

LF Code	Species typical of at least part of EVC range	Common Name
MS	Kunzea ambigua	White Kunzea
MS	Callistemon pallidus	Lemon Bottlebrush
MS	Spyridium parvifolium	Dusty Miller
SS	Hibbertia obtusifolia	Grey Guinea-flower
SS	Phyllanthus hirtellus	Thyme Spurge
SS	Hibbertia riparia	Erect Guinea-flower
LH	Stypandra glauca	Nodding Blue-lily
LH	Wahlenbergia gracilis s.l.	Sprawling Bluebell
LH	Senecio tenuiflorus	Slender Fireweed
MH	Pomax umbellata	Pomax
MH	Stellaria pungens	Prickly Starwort
MH	Leucochrysum albicans	Hoary Sunray
MH	Isotoma axillaris	Rock Isotome
MTG	Lepidosperma laterale	Variable Sword-sedge
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Dianella revoluta s.l.	Black-anther Flax-lily
MTG	Joycea pallida	Silvertop Wallaby-grass
GF	Cheilanthes austrotenuifolia	Green Rock-fern
SC	Cassytha melantha	Coarse Dodder-laurel
SC	Hardenbergia violacea	Purple Coral-pea

### Recruitment:

Continuous

# **Organic Litter:**

40 % cover

### Logs:

10 m/0.1 ha.

### Weediness:

There are no consistent weeds in this EVC.



# EVC 28: Rocky Outcrop Shrubland Highlands - Southern Fall bioregion

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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 including occasional tree ferns.

### Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 90 cm
 20 / ha

### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name40%Eucalyptus cypellocarpa<br/>Eucalyptus obliqua<br/>Eucalyptus globulus ssp. bicostataMountain Grey-gum<br/>Messmate Stringybark<br/>Eurabbie

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	4	20%	T
Medium Shrub	7	25%	MS
Small Shrub	1	1%	SS
Medium Herb	4	5%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	10%	LNG
Medium to Small Tufted Graminoid	1	1%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	3	15%	GF
Tree Fern	2	10%	TRF
Scrambler or Climber	3	5%	SC
Bryophytes/Lichens	na	20%	BL

T T MS MH MH MH MH MG LTG LNG MTG MTG TRF TRF SC	Species typical of at least part of EVC range Pomaderris aspera Acacia dealbata Goodenia ovata Coprosma quadrifida Cassinia aculeata Olearia lirata Platylobium formosum Viola hederacea sensu Willis (1972) Gonocarpus humilis Hydrocotyle hirta Geranium potentilloides Lepidosperma elatius Tetrarrhena juncea Dianella tasmanica Microlaena stipoides var. stipoides Pteridium esculentum Polystichum proliferum Blechnum wattsii Cyathea australis Dicksonia antarctica	Common Name Hazel Pomaderris Silver Wattle Hop Goodenia Prickly Currant-bush Common Cassinia Snowy Daisy-bush Handsome Flat-pea Ivy-leaf Violet Shade Raspwort Hairy Pennywort Cinquefoil Cranesbill Tall Sword-sedge Forest Wire-grass Tasman Flax-lily Weeping Grass Austral Bracken Mother Shield-fern Hard Water-fern Rough Tree-fern Soft Tree-fern
TRF SC SC	Dicksonia antarctica Clematis aristata Billardiera scandens	Soft Tree-fern Mountain Clematis Common Apple-berry
		FF 7



# EVC 29: Damp Forest Highlands – Southern Fall bioregion

#### **Recruitment:**

Continuous

#### **Organic Litter:**

50 % cover

#### Logs:

30 m/0.1 ha.

# Weediness:

LF Code **Typical Weed Species Common Name** Invasive **Impact** Hypochoeris radicata Cat's Ear high low

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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

 Eucalyptus spp.
 90 cm
 20 / ha

### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name40%Eucalyptus regnansMountain Ash

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

LF Code	Species typical of at least part of EVC range	Common Name
T	Pomaderris aspera	Hazel Pomaderris
T	Acacia dealbata	Silver Wattle
T	Olearia argophylla	Musk Daisy-bush
MS	Polyscias sambucifolia	Elderberry Panax
MS	Correa lawrenceana	Mountain Correa
MS	Coprosma quadrifida	Prickly Currant-bush
MS	Hedycarya angustifolia	Austral Mulberry
LH	Sambucus gaudichaudiana	White Elderberry
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH	Hydrocotyle hirta	Hairy Pennywort
MH	Australina pusilla ssp. muelleri	Shade Nettle
LTG	Lepidosperma elatius	Tall Sword-sedge
LNG	Tetrarrhena juncea	Forest Wire-grass
GF	Polystichum proliferum	Mother Shield-fern
GF	Blechnum wattsii	Hard Water-fern
GF	Pteridium esculentum	Austral Bracken
GF	Histiopteris incisa	Bat's Wing Fern
TRF	Dicksonia antarctica	Soft Tree-fern
TRF	Cyathea australis	Rough Tree-fern
SC	Clematis aristata	Mountain Clematis
SC	Billardiera longiflora var. longiflora	Purple Apple-berry



# EVC 30: Wet Forest Highlands – Southern Fall bioregion

### **Recruitment:**

Continuous

# **Organic Litter:**

50 % cover

#### Logs:

30 m/0.1 ha.

### Weediness:

There are no consistent weeds in this EVC.

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

### Large trees:

SpeciesDBH(cm)#/haNothofagus/Atherosperma70 cm20 / haEucalyptus spp.90 cm

### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name50%Nothofagus cunninghamiiMyrtle BeechAtherosperma moschatumSouthern SassafrasEucalyptus regnansMountain AshAcacia melanoxylonBlackwood

Life form	#Spp	%Cover	LF code
	#3pp		
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	3	15%	T
Medium Shrub	3	10%	MS
Large Herb	1	1%	LH
Medium Herb	3	10%	MH
Large Non-tufted Graminoid	1	1%	LNG
Ground Fern	6	35%	GF
Tree Fern	2	25%	TRF
Epiphyte	4	5%	EP
Scrambler or Climber	2	1%	SC
Bryophytes/Lichens	na	20%	BL

LF Code	Species typical of at least part of EVC range	Common Name
T	Pittosporum bicolor	Banyalla
MS	Hedycarya angustifolia	Austral Mulberry
MS	Tasmannia lanceolata	Mountain Pepper
MS	Coprosma quadrifida	Prickly Currant-bush
MH	Australina pusilla ssp. muelleri	Shade Nettle
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH	Sambucus gaudichaudiana `	White Elderberry
MH	Hydrocotyle hirta	Hairy Pennywort
LNG	Tetrarrhena juncea	Forest Wire-grass
MNG	Uncinia tenella	Delicate Hook-sedge
GF	Blechnum wattsii	Hard Water-fern
GF	Grammitis billardierei	Common Finger-fern
GF	Polystichum proliferum	Mother Shield-fern
GF	Asplenium bulbiferum ssp. gracillimum	Mother Spleenwort
TRF	Dicksonia antarctica	Soft Tree-fern
TRF	Cyathea australis	Rough Tree-fern
EP	Microsorum pustulatum ssp. pustulatum	Kangaroo Fern
EP	Crepidomanes venosum	Veined Bristle-fern
EP	Hymenophyllum australe	Austral Filmy Fern
EP	Hymenophyllum flabellatum	Shiny Filmy Fern
SC	Clematis aristata	Mountain Clematis
SC	Parsonsia brownii	Twining Silkpod



# **EVC 31: Cool Temperate Rainforest** Highlands – Southern Fall bioregion

### **Recruitment:**

Continuous

### **Organic Litter:**

80 % cover

20 m/0.1 ha.

### Weediness:

There are no consistent weeds in this EVC.

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# EVC 32: Warm Temperate Rainforest

## Description:

Closed forest to 25 m tall restricted to topographically protected sites in warm temperate climatic zones where it generally occupies gullies and slopes with southerly or easterly aspects. Dominated by a range of non-eucalypt canopy species above an understorey of smaller trees and shrubs and usually visually dominated by ferns and climbers.

# Large trees:

Species DBH(cm) #/ha
Various spp. 70 cm 20 / ha

### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name50%Acmena smithiiLilly PillyAcacia melanoxylonBlackwoodElaeocarpus reticulatusBlue OliveberryRapanea howittianaMuttonwood

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	3	30%	T
Medium Shrub	2	10%	MS
Large Herb	2	5%	LH
Medium Herb	3	5%	MH
Small or Prostrate Herb	1	5%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	1	1%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	4	25%	GF
Epiphyte	1	5%	EP
Scrambler or Climber	7	20%	SC
Bryophytes/Lichens	na	20%	BL



# **EVC 32: Warm Temperate Rainforest** Highlands - Southern Fall bioregion

LF Code		Species typical of at least part of EVC range	Common Name
T		Olearia argophylla	Musk Daisy-bush
T	r	Acronychia oblongifolia	Yellow-wood
MS		Coprosma quadrifida	Prickly Currant-bush
MS		Cassinia trinerva	Three-nerved Cassinia
LH		Urtica incisa	Scrub Nettle
MH		Sambucus gaudichaudiana	White Elderberry
MH		Stellaria flaccida	Forest Starwort
MH		Austrocynoglossum latifolium	Forest Hound's-tongue
SH		Pyrrosia rupestris	Rock Felt-fern
SH		Dichondra repens	Kidney-weed
LTG		Gahnia melanocarpa	Black-fruit Saw-sedge
MNG		Oplismenus hirtellus	Australian Basket-grass
MNG		Microlaena stipoides var. stipoides	Weeping Grass
GF		Asplenium flabellifolium	Necklace Fern
GF		<i>Pellaea falcata</i> s.l.	Sickle Fern
GF		Lastreopsis acuminata	Shiny Shield-fern
GF		Pteris tremula	Tender Brake
EP		Microsorum scandens	Fragrant Fern
SC		Eustrephus latifolius	Wombat Berry
SC		Clematis glycinoides var. glycinoides	Forest Clematis
SC		Geitonoplesium cymosum	Scrambling Lily
SC		Smilax australis	Austral Sarsaparilla

#### Recruitment:

Continuous

### **Organic Litter:**

50 % cover

### Logs:

20 m/0.1 ha.

### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Solanum nigrum sensu Willis (1972)	Black Nightshade	high	low
SC	Asparagus asparagoides	Bridal Creeper	high	high

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Closed forest to 20m tall restricted to deeply incised river valleys of moderate gradient and associated steep gullies in rugged mountain country on a variety of southerly aspects at an elevation of 650 to 750 m. Dominated by a range of non-eucalypt canopy species above an understorey of smaller trees and shrubs and usually visually dominated by ferns and climbers.

### Large trees:

SpeciesDBH(cm)#/haAcmena/Elaeocarpus/Atherosperma/Pomaderris70 cm20 / ha

### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name50%Acmena smithiiLilly PillyAtherosperma moschatumSouthern SassafrasElaeocarpus holopetalusBlack OliveberryPomaderris asperaHazel Pomaderris

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	5	25%	T
Medium Shrub	6	15%	MS
Large Herb	2	1%	LH
Medium Herb	3	5%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	2	1%	LTG
Large Non-tufted Graminoid	2	1%	LNG
Medium to Small Tufted Graminoid	2	5%	MTG
Ground Fern	8	25%	GF
Tree Fern	3	20%	TRF
Epiphyte	4	5%	EP
Scrambler or Climber	7	20%	SC
Bryophytes/Lichens	na	20%	BL



# EVC 33: Cool Temperate Rainforest/Warm Temperate Rainforest Overlap Highlands - Southern Fall bioregion

LF Code		Species typical of at least part of EVC range	Common Name
T		Acacia melanoxylon	Blackwood
T	V	Eucryphia moorei	Leatherwood
T		Rapanea howittiana	Muttonwood
T		Pittosporum bicolor	Banyalla
MS		Coprosma quadrifida	Prickly Currant-bush
MS		Hedycarya angustifolia	Austral Mulberry
MS		Telopea oreodes	Gippsland Waratah
MS		Tasmannia lanceolata	Mountain Pepper
MH		Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH		Australina pusilla ssp. muelleri	Shade Nettle
GF		Polystichum proliferum	Mother Shield-fern
GF		Blechnum patersonii ssp. patersonii	Strap Water-fern
GF		Lastreopsis acuminata	Shiny Shield-fern
GF		Blechnum cartilagineum	Gristle Fern
TRF		Dicksonia antarctica	Soft Tree-fern
TRF		Cyathea australis	Rough Tree-fern
TRF	Rr	Cyathea cunninghamii	Slender Tree-fern
TRF	r	Cyathea X marcescens	Skirted Tree-fern
EP		Fieldia australis	Fieldia
EP		Grammitis billardieri	Common Finger-fern
EP		Hymenophyllum australe	Austral Filmy Fern
EP		Microsorum scandens	Fragrant Fern
EP		Microsorum pustulatum ssp. pustulatum	Kangaroo Fern
SC		Smilax australis	Austral Sarsaparilla
SC		Eustrephus latifolius	Wombat Berry
SC		Marsdenia rostrata	Milk Vine
SC		Clematis aristata	Mountain Clematis

#### Recruitment:

Continuous

### **Organic Litter:**

50 % cover

### Logs:

20 m/0.1 ha.

### Weediness:

There are no consistent weeds in this EVC.

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Open to closed non-eucalypt low forest or tall shrubland to 15 m tall. Occurs in areas of relatively low rainfall (750-900mm per annum) and primarily confined to topographic fire refuges most often associated with extensive cliffs, gorges and rock screes on northern and western aspects.

### Large trees:

SpeciesDBH(cm)#/haVarious spp.60 cm10 / ha

### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name50%Rapanea howittianaMutton-woodPittosporum undulatumSweet Pittosporum

### **Understorey:**

Life form	#Spp	%Cover	LF code
Immature Canopy Tree	•	5%	IT
Understorey Tree or Large Shrub	3	20%	T
Medium Shrub	9	20%	MS
Large Herb	5	5%	LH
Medium Herb	12	15%	MH
Small or Prostrate Herb	5	5%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	3	5%	MTG
Medium to Tiny Non-tufted Graminoid	3	5%	MNG
Ground Fern	5	10%	GF
Epiphyte	2	1%	EP
Scrambler or Climber	6	10%	SC
Bryophytes/Lichens	na	20%	BL

#### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Rubus fruticosus spp. agg.	Blackberry	high	high
LH	Solanum nigrum sensu Willis (1972)	Black Nightshade	high	low
LH	Cirsium vulgare	Spear Thistle	high	high
LH	Conyza spp.	Fleabane	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Gamochaeta purpurea s.l.	Purple Cudweed	high	low
MH	Cerastium glomeratum s.l.	Common Mouse-ear Chickweed	high	low
MH	Polycarpon tetraphyllum	Four-leaved Allseed	high	low
MH	Hypochoeris glabra	Smooth Cat's-ear	high	low
MH	Galium murale	Small Goosegrass	high	low
MH	Anagallis arvensis	Pimpernel	high	low
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	Ehrharta erecta var. erecta	Panic Veldt-grass	high	high
MNG	Aira praecox	Early Hair-grass	high	low



# EVC 34: Dry Rainforest Highlands - Southern Fall bioregion

LF Co	ode	Species typical of at least part of EVC range	Common Name
Т		Acacia mearnsii	Black Wattle
Т		Acacia implexa	Lightwood
Т		Acacia falciformis	Pale Hickory Wattle
MS		Olearia lirata	Snowy Daisy-bush
MS		Cassinia trinerva	Three-nerved Cassinia
MS		Cassinia longifolia	Shiny Cassinia
MS		Coprosma quadrifida	Prickly Currant-bush
LH		Urtica incisa	Scrub Nettle
LH		Sigesbeckia orientalis ssp. orientalis	Indian Weed
LH		Senecio minimus	Shrubby Fireweed
MH		Solanum prinophyllum	Forest Nightshade
MH		Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH		Sambucus gaudichaudiana	White Elderberry
MH		Lobelia anceps	Angled Lobelia
SH		Dichondra repens	Kidney-weed
SH		Hydrocotyle sibthorpioides	Shining Pennywort
SH		Pyrrosia rupestris	Rock Felt-fern
SH		Oxalis exilis	Shady Wood-sorrel
LTG	ì	Lomandra longifolia	Spiny-headed Mat-rush
LTG	ì	Lepidosperma urophorum	Tailed Rapier-sedge
LTG	ì	Gahnia melanocarpa	Black-fruit Saw-sedge
MT	G	Notodanthonia longifolia	Long-leaf Wallaby-grass
MT	G r	Libertia paniculata	Branching Grass-flag
MT	G	Lepidosperma laterale	Variable Sword-sedge
MT	G	Poa hothamensis	Ledge Grass
MN	G	Microlaena stipoides var. stipoides	Weeping Grass
MN	G	Echinopogon ovatus	Common Hedgehog-grass
MN	G	Oplismenus hirtellus	Australian Basket-grass
MN	G	Entolasia marginata	Bordered Panic
GF		Pteris tremula	Tender Brake
GF		Asplenium flabellifolium	Necklace Fern
GF		Doodia australis	Common Rasp-fern
GF		Cheilanthes austrotenuifolia	Green Rock-fern
EP		Microsorum pustulatum ssp. pustulatum	Kangaroo Fern
EP		Hymenophyllum cupressiforme	Common Filmy Fern
EP		Sarcochilus australis	Butterfly Orchid
SC		Cassytha phaeolasia	Rusty Dodder-laurel
SC		Eustrephus latifolius	Wombat Berry
SC		Celastrus australis	Staff Climber
SC		Morinda jasminoides	Jasmine Morinda

### Recruitment:

Continuous

### **Organic Litter:**

50 % cover

10 m/0.1 ha.

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Tall eucalypt forest to 30 m tall with an understorey dominated by a tall, diverse shrub layer of broad-leaved shrubs and heaths with sometimes a scattering of tree-ferns. The ground layer is dominated by a variety of herbs and graminoids. Occurs on topographically protected south-facing slopes and occasionally in gully heads on northern or western slopes in low relief montane areas.

#### Large trees:

SpeciesDBH(cm)#/haEucalyptus spp.90 cm20 / ha

### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name40%Eucalyptus delegatensis ssp. delegatensisAlpine Ash

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

LF Code	Species typical of at least part of EVC range	Common Name
T	Acacia dealbata	Silver Wattle
T	Acacia obliquinervia	Mountain Hickory Wattle
MS	Polyscias sambucifolia	Elderberry Panax
MS	Coprosma hirtella	Rough Coprosma
MS	Olearia phlogopappa	Dusty Daisy-bush
MS	Cassinia aculeata	Common Cassinia
SS	Leucopogon hookeri	Mountain Beard-heath
LH	Derwentia derwentiana	Derwent Speedwell
LH	Senecio linearifolius	Fireweed Groundsel
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH	Lagenophora stipitata	Common Bottle-daisy
MH	Acaena novae-zelandiae	Bidgee-widgee
MH	Gonocarpus tetragynus	Common Raspwort
SH	Leptinella filicula	Mountain Cotula
MTG	Dianella tasmanica	Tasman Flax-lily
MTG	Stylidium graminifolium s.l.	Grass Trigger-plant
MTG	Poa ensiformis	Sword Tussock-grass
GF	Pteridium esculentum	Austral Bracken
GF	Polystichum proliferum	Mother Shield-fern



# **EVC 35: Tableland Damp Forest** Highlands - Southern Fall bioregion

#### Recruitment:

Continuous

#### **Organic Litter:**

50 % cover

30 m/0.1 ha.

#### Weediness:

There are no consistent weeds in this EVC.

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# EVC 36: Montane Dry Woodland

### **Description:**

Occurs on dry and exposed mid to upper slopes at montane elevations, often extending onto ridges in high rainfall areas. Effective rainfall may be enhanced by cold air drainage, low cloud cover and in some cases, persistent snow cover. Open forest to open woodland to 15 m tall, according to altitude, precipitation and frequency of fire. The shrubby understorey is an unusual combination of species, which tolerate exposed montane conditions and species which enjoy the increased moisture available from cloud and fog drip.

### Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 50 cm
 15 / ha

### Tree Canopy Cover:

%cover Character Species 20% Eucalyptus pauciflora

6 Eucalyptus pauciflora Eucalyptus dives

Eucalyptus rubida Eucalyptus obliqua Eucalyptus cypellocarpa

#### **Common Name**

Snow Gum

**Broad-leaved Peppermint** 

Candlebark

Messmate Stringybark Mountain Grey-gum

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	20%	T
Mallee Tree	1	1%	MT
Medium Shrub	6	20%	MS
Small Shrub	2	5%	SS
Large Herb	2	5%	LH
Medium Herb	9	20%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	6	15%	MTG
Medium to Tiny Non-tufted Graminoid	1	5%	MNG
Ground Fern	1	5%	GF
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C



# EVC 36: Montane Dry Woodland Highlands - Southern Fall bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	Acacia dealbata	Silver Wattle
T	Acacia obliquinervia	Mountain Hickory Wattle
MS	Coprosma hirtella	Rough Coprosma
MS	Polyscias sambucifolia	Elderberry Panax
MS	Daviesia ulicifolia	Gorse Bitter-pea
MS	Cassinia aculeata	Common Cassinia
SS	Olearia erubescens	Moth Daisy-bush
SS	Leucopogon hookeri	Mountain Beard-heath
SS	Platylobium formosum	Handsome Flat-pea
SS	Tetratheca labillardierei	Glandular Pink-bells
LH	Derwentia derwentiana	Derwent Speedwell
LH	Senecio linearifolius	Fireweed Groundsel
LH	Chrysocephalum semipapposum	Clustered Everlasting
MH	Stellaria pungens	Prickly Starwort
MH	Gonocarpus tetragynus	Common Raspwort
MH	Asperula scoparia	Prickly Woodruff
SH	Leptinella filicula	Mountain Cotula
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LTG	Deyeuxia frigida	Forest Bent-grass
MTG	Stylidium graminifolium s.l.	Grass Trigger-plant
MTG	Dianella tasmanica	Tasman Flax-lily
MTG	Poa sieberiana	Grey Tussock-grass
MTG	Poa labillardierei	Common Tussock-grass
MNG	Luzula campestris spp. agg.	Field Woodrush
GF	Pteridium esculentum	Austral Bracken
GF	Polystichum proliferum	Mother Shield-fern
SC	Clematis aristata	Mountain Clematis

#### Recruitment:

Continuous

# Organic Litter:

20 % cover

#### Logs:

15 m/0.1 ha.

#### Weediness:

LF Code **Typical Weed Species Common Name** Invasive **Impact** Hypochoeris radicata Cat's Ear high low

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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
Eucalyptus spp.
50 cm
15 / ha

EVC 37: Montane Grassy Woodland

### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name20%Eucalyptus paucifloraSnow GumEucalyptus divesBroad-leaved PeppermintEucalyptus rubidaCandlebark

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** Highlands – Southern Fall bioregion

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

#### **Recruitment:**

Continuous

#### **Organic Litter:**

20 % cover

15 m/0.1 ha.

#### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Cerastium glomeratum s.l.	Common Mouse-ear Chickweed	high	low
MH	Centaurium erythraea	Common Centaury	high	low
MH	Prunella vulgaris	Self-heal	high	low
MH	Taraxacum officinale spp. agg.	Garden Dandelion	high	low
SH	Trifolium repens var. repens	White Clover	high	high

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# EVC 38: Montane Damp Forest

#### **Description:**

Grows on a wide range of geologies on well-developed generally colluvial soils on a variety of aspects at 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

 Eucalyptus spp.
 90 cm
 20 / ha

### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name40%Eucalyptus cypellocarpaMountain Grey-gumEucalyptus obliquaMessmateEucalyptus radiata s.l.Narrow-leaf Peppermint

Life form	#Spp	%Cover	LF code	
Immature Canopy Tree		5%	IT	
Understorey Tree or Large Shrub	3	25%	T	
Medium Shrub	7	25%	MS	
Small Shrub	3	10%	SS	
Prostrate Shrub	1	1%	PS	
Large Herb	3	5%	LH	
Medium Herb	10	15%	MH	
Small or Prostrate Herb	2	5%	SH	
Large Tufted Graminoid	1	5%	LTG	
Medium to Small Tufted Graminoid	4	10%	MTG	
Medium to Tiny Non-tufted Graminoid	1	1%	MNG	
Ground Fern	2	10%	GF	
Scrambler or Climber	1	5%	SC	
Bryophytes/Lichens	na	20%	BL	



# **EVC 38: Montane Damp Forest** Highlands – Southern Fall bioregion

LF Code	Species typical of at least part of EVC range	<b>Common Name</b>
T	Eucalyptus dives	Broad-leaved Peppermint
T	Acacia dealbata	Silver Wattle
Т	Acacia melanoxylon	Blackwood
MS	Coprosma hirtella	Rough Coprosma
MS	Polyscias sambucifolia	Elderberry Panax
MS	Cassinia aculeata	Common Cassinia
MS	Persoonia confertiflora	Cluster-flower Geebung
SS	Tetratheca ciliata	Pink-bells
SS	Olearia erubescens	Moth Daisy-bush
SS	Olearia myrsinoides	Silky Daisy-bush
SS	Hibbertia obtusifolia	Grey Guinea-flower
PS	Platylobium formosum	Handsome Flat-pea
LH	Derwentia derwentiana	Derwent Speedwell
LH	Senecio quadridentatus	Cotton Fireweed
LH	Senecio linearifolius	Fireweed Groundsel
LH	Chrysocephalum semipapposum	Clustered Everlasting
MH	Stellaria pungens	Prickly Starwort
MH	Lagenophora stipitata	Common Bottle-daisy
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH	Gonocarpus tetragynus	Common Raspwort
SH	Oxalis corniculata s.l.	Yellow Wood-sorrel
SH	Leptinella filicula	Mountain Cotula
LTG	Lomandra longifolia	Spiny-headed Mat-rush
MTG	Dianella tasmanica	Tasman Flax-lily
MTG	Poa australis spp. agg.	Tussock Grass
MTG	Stylidium graminifolium s.l.	Grass Trigger-plant
MTG	Dianella revoluta s.l.	Black-anther Flax-lily
MNG	Luzula campestris spp. agg.	Field Woodrush
MNG	Deyeuxia rodwayi	Tasman Bent-grass
GF	Pteridium esculentum	Austral Bracken
GF	Polystichum proliferum	Mother Shield-fern
SC	Clematis aristata	Mountain Clematis
SC	Glycine clandestina	Twining Glycine

#### **Recruitment:**

Continuous

### **Organic Litter:**

50 % cover

#### Logs:

30 m/0.1 ha.

### Weediness:

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

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# **EVC 39: Montane Wet Forest**

#### **Description:**

Grows on the most sheltered wet sites such as gully heads and south facing slopes at montane elevations in high rainfall areas. Soils are deep, fertile, well-drained and structureless and although well-drained, may remain saturated for long periods. The overstorey forms a tall open eucalypt forest to 30 m tall over a secondary tree layer with occasional tall shrubs which provide shade and protection for a fern-rich ground layer. Scattered herbs occur in gaps in the ground layer.

#### Large trees:

**Species** DBH(cm) #/ha 20 / ha Eucalyptus spp. 90 cm

#### **Tree Canopy Cover:**

**Common Name** %cover **Character Species** 40% Eucalyptus regnans Mountain Ash Eucalyptus nitens Shining Gum

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

LF Code Species typical of at least part of EVC range
---

<b>Code</b> ⊤	Species typical of at least part of EVC range  Acacia dealbata	<b>Common Name</b> Silver Wattle
T	Olearia argophylla	Musk Daisy-bush
MS	Olearia phlogopappa	Dusty Daisy-bush
MS	Polyscias sambucifolia	Elderberry Panax
MS	Cassinia aculeata	Common Cassinia
MS	Tasmannia lanceolata	Mountain Pepper
LH	Senecio linearifolius	Fireweed Groundsel
LH	Mentha laxiflora	Forest Mint
MH	Sambucus gaudichaudiana	White Elderberry
MH	Hydrocotyle hirta	Hairy Pennywort
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH	Stellaria flaccida	Forest Starwort
SH	Leptostigma reptans	Dwarf Nertera
LTG	Dryopoa dives	Giant Mountain-grass
LNG	Tetrarrhena juncea	Forest Wire-grass
MTG	Dianella tasmanica	Tasman Flax-lily
MTG	Poa ensiformis	Sword Tussock-grass
GF	Polystichum proliferum	Mother Shield-fern
GF	Pteridium esculentum	Austral Bracken
GF	Histiopteris incisa	Bat's Wing Fern
TRF	Dicksonia antarctica	Soft Tree-fern
SC	Clematis aristata	Mountain Clematis



# **EVC 39: Montane Wet Forest** Highlands – Southern Fall bioregion

#### **Recruitment:**

Continuous

### **Organic Litter:**

50 % cover

30 m/0.1 ha.

#### Weediness:

There are no consistent weeds in this EVC.

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# EVC 40: Montane Riparian Woodland

### **Description:**

Associated with the peat-rich flats of perennial, meandering streams which flow through Montane Dry Woodland at montane elevations. Open woodland to 15 m tall with a dense riparian shrub layer lining the smaller creeks but on the larger streams may be largely un-treed. The ground layer contains a dense sward of grasses, herbs and sedges often associated with creeks or river margins.

#### Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 60 cm
 15 / ha

#### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name15%Eucalyptus viminalis<br/>Eucalyptus radiata s.l.Manna Gum<br/>Narrow-leaf Peppermint<br/>Eucalyptus camphora ssp. humeanaNarrow-leaf Peppermint<br/>Mountain Swamp Gum

Life form	#6	0/- Cover	I E codo
Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	ΙΤ
Understorey Tree or Large Shrub	3	15%	T
Medium Shrub	5	10%	MS
Large Herb	6	10%	LH
Medium Herb	10	15%	MH
Small or Prostrate Herb	4	5%	SH
Large Tufted Graminoid	3	25%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	3	10%	MTG
Ground Fern	4	15%	GF
Tree Fern	1	1%	TRF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	20%	BL



# EVC 40: Montane Riparian Woodland Highlands – Southern Fall bioregion

LF Code	Species typical of at least part of EVC range	<b>Common Name</b>
Т	Acacia melanoxylon	Blackwood
Т	Acacia dealbata	Silver Wattle
MS	Coprosma quadrifida	Prickly Currant-bush
MS	Olearia alpicola	Alpine Daisy-bush
MS	Cassinia aculeata	Common Cassinia
MS	Prostanthera rotundifolia	Round-leaf Mint-bush
SS	Tetratheca ciliata	Pink-bells
LH	Epilobium billardierianum ssp. cinereum	Grey Willow-herb
LH	Senecio glomeratus	Annual Fireweed
LH	Veronica gracilis	Slender Speedwell
LH	Persicaria praetermissa	Spotted Knotweed
MH	Stellaria pungens	Prickly Starwort
MH	Acaena novae-zelandiae	Bidgee-widgee
MH	Hydrocotyle hirta	Hairy Pennywort
SH	Callitriche spp.	Water Starwort
SH	Hypericum japonicum	Matted St John's Wort
SH	Hydrocotyle sibthorpioides	Shining Pennywort
LTG	Carex appressa	Tall Sedge
LTG	Cyperus lucidus	Leafy Flat-sedge
LTG	Juncus pallidus	Pale Rush
LTG	Deyeuxia brachyathera	Short Bent-grass
LNG	Phragmites australis	Common Reed
MTG	Poa australis spp. agg.	Tussock Grass
MTG	Isolepis subtilissima	Mountain Club-sedge
MTG	Rytidosperma nudiflorum	Alpine Wallaby-grass
MTG	Stylidium graminifolium s.l.	Grass Trigger-plant
MNG	Microlaena stipoides var. stipoides	Weeping Grass
GF	Pteridium esculentum	Austral Bracken
GF	Blechnum nudum	Fishbone Water-fern
GF	Polystichum proliferum	Mother Shield-fern
GF	Blechnum wattsii	Hard Water-fern
TRF	Dicksonia antarctica	Soft Tree-fern
SC	Clematis aristata	Mountain Clematis
SC	Calystegia marginata	Forest Bindweed

### **Recruitment:**

Continuous

### **Organic Litter:**

40 % cover

#### Logs:

15 m/0.1 ha.

#### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Rosa rubiginosa	Sweet Briar	low	high
MS	Rubus fruticosus spp. agg.	Blackberry	high	high
LH	Cirsium vulgare	Spear Thistle	high	high
LH	Hypericum perforatum	St John's Wort	high	high
MH	Prunella vulgaris	Self-heal	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Mimulus moschatus	Musk Monkey-flower	high	low
SH	<i>Trifolium repens</i> var. <i>repens</i>	White Clover	high	high
LNG	Holcus lanatus	Yorkshire Fog	high	high

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Occurs in montane and sub-alpine areas, often within Montane Damp Forest along drainage lines, streams with gentle gradients and in soaks at the heads of gullies on south-facing aspects. The waterlogged soils are colluviums or alluviums rich in organic matter and it is a closed shrubland to 8 m tall in structure, often forming a narrow, linear strip. The understorey consists of a variety of shade-tolerant species. Along the stream flats ferns are the common life form while sedges, grasses and herbs form a sparse but diverse ground layer.

#### **Canopy Cover:**

%cover	Character Species	Common Name
40%	Leptospermum grandifolium	Mountain Tea-tree
	Nothofagus cunninghamii	Myrtle Beech

## **Understorey:**

Life form	#Spp	%Cover	LF code
Medium Shrub	1	5%	MS
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	2	40%	LTG
Medium to Small Tufted Graminoid	2	1%	MTG
Ground Fern	3	20%	GF
Tree Fern	1	5%	TRF
Epiphyte	2	1%	EP
Bryophytes/Lichens	na	20 %	BL
Total understorey projective foliage cover		90%	


LF Code		Species typical of at least part of EVC range	Common Name
MS		Tasmannia lanceolata	Mountain Pepper
SH		Chiloglottis gunnii s.l.	Common Bird-orchid
SH		Chiloglottis cornuta	Green Bird-orchid
LTG		Gahnia sieberiana	Red-fruit Saw-sedge
LTG		Juncus usitatus	Billabong Rush
MTG		Isolepis subtilissima	Mountain Club-sedge
MTG		Dianella tasmanica	Tasman Flax-lily
MTG	r	Carex alsophila	Forest Sedge
GF		Grammitis billardierei	Common Finger-fern
GF		Blechnum wattsii	Hard Water-fern
GF		Polystichum proliferum	Mother Shield-fern
GF		Blechnum nudum	Fishbone Water-fern
TRF		Todea barbara	Austral King-fern
TRF		Dicksonia antarctica	Soft Tree-fern
EP		Microsorum pustulatum ssp. pustulatum	Kangaroo Fern
EP		Hymenophyllum peltatum	Alpine Filmy Fern

#### **Recruitment:**

Continuous

### **Organic Litter:**

40 % cover

#### Logs

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

### Weediness:

There are no consistent weeds in this EVC.



# EVC 41: Montane Riparian Thicket Highlands – Southern Fall bioregion

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# EVC 43: Sub-alpine Woodland

### Description:

Grows on a wide range of geologies and aspects, in the higher altitudinal levels above 1200 m. Rainfall is relatively high and snow may persist for long periods over winter. Soils are generally skeletal sandy clay loams with a rich humus topsoil layer. A low, open woodland to 10 m tall dominated by Snow Gum *Eucalyptus pauciflora*, with the understorey variously consisting of a rich suite of grasses and herbs, or a dense layer of woody shrubs, depending on soil fertility.

Large trees:	Species	DBH(cm)	#/ha
Eucalyptus spp.	40 cm	15 / ha	15 / ha

### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name15%Eucalyptus paucifloraSnow Gum

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

LF Code	Species typical of at least part of EVC range Acacia obliquinervia	Common Name Mountain Hickory Wattle
MS	Podolobium alpestre	Alpine Podolobium
MS	Olearia phlogopappa	Dusty Daisy-bush
MS	Tasmannia xerophila	Alpine Pepper
SS	Leucopogon hookeri	Mountain Beard-heath
LH	Senecio gunnii	Mountain Fireweed
MH	Stellaria pungens	Prickly Starwort
MH	Oreomyrrhis eriopoda	Australian Caraway
MH	Viola betonicifolia ssp. betonicifolia	Showy Violet
MH	Asperula gunnii	Mountain Woodruff
MTG	Stylidium graminifolium s.l.	Grass Trigger-plant
MTG	Dianella tasmanica	Tasman Flax-lily
MTG	<i>Poa australis</i> spp. agg.	Tussock Grass
MTG	Carex breviculmis	Common Grass-sedge
GF	Polystichum proliferum	Mother Shield-fern



# EVC 43: Sub-alpine Woodland Highlands - Southern Fall bioregion

#### Recruitment:

Continuous

### **Organic Litter:**

20 % cover

#### Logs:

10 m/0.1 ha.

#### Weediness:

LF Code **Typical Weed Species Common Name** Invasive **Impact** MH Acetosella vulgaris Sheep Sorrel high high MH Hypochoeris radicata Cat's Ear high low

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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

 Eucalyptus spp.
 70 cm
 20 / ha

#### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name40%Eucalyptus obliqua<br/>Eucalyptus sieberi<br/>Eucalyptus baxteri s.l.Messmate Stringybark<br/>Silvertop Ash<br/>Brown Stringybark<br/>Narrow-leaf Peppermint

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	8	35%	MS
Small Shrub	3	10%	SS
Prostrate Shrub	1	5%	PS
Medium Herb	3	5%	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	2	5%	MTG
Ground Fern	2	10%	GF
Scrambler or Climber	1	1%	SC
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
---------	---	-------------

Couc		opecies typical of at least part of 210 range	Common Hame
T		Exocarpos cupressiformis	Cherry Ballart
MS		Spyridium parvifolium	Dusty Miller
MS		Goodenia ovata	Hop Goodenia
MS		Epacris impressa	Common Heath
MS		Correa reflexa	Common Correa
SS		Amperea xiphoclada var. xiphoclada	Broom Spurge
SS		Tetratheca ciliata	Pink-bells
SS		Lomatia ilicifolia	Holly Lomatia
SS	Rτ	Tetratheca stenocarpa	Long Pink-bells
PS		Platylobium formosum	Handsome Flat-pea
PS		Acrotriche prostrata	Trailing Ground-berry
MH		Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH		Gonocarpus tetragynus	Common Raspwort
LNG		Tetrarrhena juncea	Forest Wire-grass
MTG		Poa australis spp. agg.	Tussock Grass
MTG		Lepidosperma laterale	Variable Sword-sedge
GF		Pteridium esculentum	Austral Bracken
SC		Billardiera scandens	Common Apple-berry



# EVC 45: Shrubby Foothill Forest Highlands – Southern Fall bioregion

#### **Recruitment:**

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

#### **Organic Litter:**

40 % cover

#### Logs:

20 m/0.1 ha.

#### Weediness:

There are no consistent weeds in this EVC.

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# EVC 47: Valley Grassy Forest

#### **Description:**

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 20 m tall may carry a variety of eucalypts, usually species, which prefer more moist or more fertile conditions over a sparse shrub cover. In season, a rich array of herbs, lilies, grasses and sedges dominate the ground layer but at the drier end of the spectrum the ground layer may be sparse and slightly less diverse, but with the moisture-loving species still remaining.

**Common Name** 

Narrow-leaf Peppermint

Yellow Box

Candlebark

Red Stringybark Long-leaf Box

### Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 20 / ha

### **Tree Canopy Cover:**

%coverCharacter Species20%Eucalyptus melliodoraEucalyptus rubidaEucalyptus radiata s.l.Eucalyptus macrorhynchaEucalyptus goniocalyx s.l.

#Spp	%Cover	LF code
	5%	IT
2	15%	T
6	20%	MS
3	5%	SS
2	1%	PS
3	5%	LH
12	20%	MH
3	10%	SH
2	5%	LTG
2	10%	LNG
7	20%	MTG
2	5%	MNG
1	5%	GF
na	20%	BL
	2 6 3 2 3 12 3 2 2 7 2	5% 2 15% 6 20% 3 5% 2 1% 3 5% 12 20% 3 10% 2 5% 2 10% 7 20% 2 5% 1 5%



# EVC 47: Valley Grassy Forest Highlands – Southern Fall bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	Acacia mearnsii	Black Wattle
Т	Exocarpos cupressiformis	Cherry Ballart
MS	Cassinia aculeata	Common Cassinia
MS	Acacia genistifolia	Spreading Wattle
MS	Pultenaea gunnii	Golden Bush-pea
MS	Kunzea ericoides	Burgan
SS	Leucopogon virgatus	Common Beard-heath
SS	Dillwynia cinerascens s.l.	Grey Parrot-pea
SS	Dillwynia phylicoides	Small-leaf Parrot-pea
PS	Acrotriche serrulata	Honey-pots
PS	Astroloma humifusum	Cranberry Heath
LH	Senecio tenuiflorus	Slender Fireweed
LH	Wahlenbergia stricta	Tall Bluebell
MH	Acaena echinata	Sheep's Burr
MH	Gonocarpus tetragynus	Common Raspwort
MH	Poranthera microphylla	Small Poranthera
MH	Drosera peltata ssp. auriculata	Tall Sundew
SH	Opercularia varia	Variable Stinkweed
SH	Hydrocotyle laxiflora	Stinking Pennywort
SH	Drosera whittakeri ssp. aberrans	Scented Sundew
SH	Dichondra repens	Kidneyweed
LTG	Austrostipa rudis	Veined Spear-grass
LTG	Poa labillardierei	Common Tussock-grass
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LNG	Gahnia radula	Thatch Saw-sedge
MTG	Themeda triandra	Kangaroo Grass
MTG	Lomandra filiformis ssp. coriacea	Wattle Mat-rush
MTG	Dianella revoluta s.l.	Black-anther Flax-lily
MTG	Poa sieberiana	Grey Tussock-grass
MNG	Microlaena stipoides var. stipoides	Weeping Grass
GF	Pteridium esculentum	Austral Bracken
SC	Thysanotus patersonii	Twining Fringe-lily
SC	Comesperma volubile	Love Creeper

#### **Recruitment:**

Continuous

### **Organic Litter:**

20 % cover

20 m/0.1 ha.

#### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Sonchus oleraceus	Common Sow-thistle	high	low
MH	Hypochoeris radicata	Cat's Ear	high	high
MH	Centaurium erythraea	Common Centaury	high	low
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high
MTG	Briza maxima	Large Quaking-grass	high	low

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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) #/ha
50 cm 15 / ha

### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name10%Eucalyptus obliquaMessmate StringybarkEucalyptus radiata s.l.Narrow-leaf Peppermint

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	5	30%	MS
Small Shrub	5	20%	SS
Medium Herb	2	5%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	1	5%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	1	1%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	1	5%	GF
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		<b>75%</b>	

LF Code	Species typical of at least part of EVC range	<b>Common Name</b>
MS	Epacris impressa	Common Heath
MS	Leptospermum myrsinoides	Heath Tea-tree
MS	Leptospermum continentale	Prickly Tea-tree
MS	Monotoca scoparia	Prickly Broom-heath
SS	Amperea xiphoclada var. xiphoclada	Broom Spurge
SS	Leucopogon virgatus	Common Beard-heath
SS	Dillwynia glaberrima	Smooth Parrot-pea
LTG	Gahnia sieberiana	Red-fruit Saw-sedge
MNG	Hypolaena fastigiata	Tassel Rope-rush
SC	Cassytha glabella	Slender Dodder-laurel



# EVC 48: Heathy Woodland – Highlands Southern Fall bioregion

#### **Recruitment:**

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

# **Organic Litter:**

40 % cover

### Logs:

15 m/0.1 ha.

#### Weediness:

There are no consistent weeds in this EVC.

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

### **Tree Canopy Cover:**

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

### Life forms:

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

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



# EVC 53: Swamp Scrub Highlands – Southern Fall bioregion

### Recruitment:

Continuous

### **Organic Litter:**

40 % cover

#### Weediness:

**LF Code Typical Weed Species Common Name** Invasive **Impact** MΗ Hypochoeris radicata Cat's Ear high low LNG Holcus lanatus Yorkshire Fog high high

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# EVC 55: Plains Grassy Woodland

#### **Description:**

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

### Large trees:

**Species DBH(cm)**#/ha
Eucalyptus spp.
80 cm
10 / ha

### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name20%Eucalyptus camaldulensisRiver Red-gum

#### **Understorey:**

onaciotoi cy i			
Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	2	10%	MS
Small Shrub	1	1%	SS
Prostrate Shrub	1	1%	PS
Large Herb	1	5%	LH
Medium Herb	10	20%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	10%	LNG
Medium to Small Tufted Graminoid	9	35%	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	<b>Common Name</b>
T	Allocasuarina littoralis	Black Sheoak

Т	Allocasuarina littoralis	Black Sheoak
MS	Kunzea ericoides	Burgan
SS	Pimelea humilis	Common Rice-flower
PS	Bossiaea prostrata	Creeping Bossiaea
MH	Hypericum gramineum	Small St John's Wort
MH	Oxalis perennans	Grassland Wood-sorrel
SH	Dichondra repens	Kidney-weed
SH	Poranthera microphylla	Small Poranthera
LTG	Austrostipa rudis	Veined Spear-grass
LNG	Gahnia radula	Thatch Saw-sedge
MTG	Themeda triandra	Kangaroo Grass
MTG	Carex breviculmis	Common Grass-sedge
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Schoenus apogon	Common Bog-sedge
MNG	Microlaena stipoides var. stipoides	Weeping Grass

### **Recruitment:**

Continuous

## **Organic Litter:**

10 % cover

### Logs:

10 m/0.1 ha.



# EVC 55: Plains Grassy Woodland Highlands – Southern Fall bioregion

#### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Plantago lanceolata	Ribwort	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Centaurium erythraea	Common Centaury	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high
MNG	Romulea rosea	Onion Grass	high	low
MNG	Briza maxima	Large Quaking-grass	high	low
MNG	Briza minor	Lesser Quaking-grass	high	low

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An open eucalypt woodland to 15 m tall over a medium to tall shrub layer with a ground layer consisting of amphibious and aquatic herbs and sedges. Occurs along the banks and floodplains of the larger meandering rivers and major creeks, often in conjunction with one or more floodplain wetland communities. Elevation and rainfall are relatively low and soils are fertile alluviums subject to periodic flooding and inundation.

#### Large trees:

**Species** DBH(cm) #/ha 15 / ha Eucalyptus spp. 80 cm

#### **Tree Canopy Cover:**

**Common Name** %cover **Character Species** 20% Eucalyptus ovata Swamp Gum Eucalyptus viminalis Manna Gum

#### **Understorey:**

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

LF Code	Species typical of at least part of EVC range  Acacia dealbata	Common Name Silver Wattle
÷	Melaleuca ericifolia	Swamp Paperbark
Ť	Acacia melanoxylon	Blackwood
MS	Bursaria spinosa ssp. spinosa	Sweet Bursaria
MS	Hymenanthera dentata s.l.	Tree Violet
LH	Senecio quadridentatus	Cotton Fireweed
LH	Senecio minimus	Shrubby Fireweed
LH	Senecio pinnatifolius	Variable Groundsel
MH	Acaena novae-zelandiae	Bidgee-widgee
MH	Crassula helmsii	Swamp Crassula
MH	Persicaria decipiens	Slender Knotweed
SH	Dichondra repens	Kidney-weed
LTG	Juncus sarophorus	Broom Rush
LTG	Juncus gregiflorus	Green Rush
LTG	Carex appressa	Tall Sedge
LTG	Poa labillardierei	Common Tussock-grass
LNG	Phragmites australis	Common Reed
LNG	Schoenoplectus tabernaemontani	River Club-sedge
MTG	Juncus amabilis	Hollow Rush
MTG	Carex inversa	Knob Sedge
MNG	Microlaena stipoides var. stipoides	Weeping Grass
		· ·

## **Recruitment:**

SC

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



Large Bindweed

Calystegia sepium

# EVC 56: Floodplain Riparian Woodland Highlands – Southern Fall bioregion

### **Organic Litter:**

40 % cover

### Logs:

30 m/0.1 ha.

### Weediness:

Trough Species T Fraxinus angustifolia ssp. angustifolia T Salix fragilis T Salix increae T Crategus monogyna MS Solanum pseudocapsicum MS Solanum pseudocapsicum MS Prunus cerasifera CHH Cirisum vulgare LH Cirisum vulgare LH Rovippa palustris LH Rovippa palustr	Weediness:				
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T Salik Cinerea Grey Sallow high high Nigh T Crataegus monogyna Hawthorn high high high MS Solanum pseudocapsicum Madeira Winter-cherry high high high S Prunus cerasifera Cherry Plum high high high LH Cristum vulgare Spear Thiste high high high lLH Solanum americanum Glossy Nightshade high high low LH Rorippa palustris Marsh Yellow-cress high high low LH Rames bonariensis s.l. Purple-top Verbena high low ligh low LH Rames crispus Curled Dock high high low LH Rames crispus Curled Dock high high ligh LH Rames crispus Curled Dock high high ligh low LH Rames conglomeratus Clustered Dock high high ligh low LH Rames conglomeratus Clustered Dock high high ligh low LH Rames conglomeratus Clustered Dock high high low LH Ranneculus repens Paterson's Curse high low MH Anagallis arvensis Pimpernel high low MH Ranunculus repens Creeping Buttercup high high low MH Ranunculus repens Creeping Buttercup high low MH Arctotheca calendula Cape Weed high low MH Arctotheca calendula Cape Weed high low SH Trifollum repens var. repens White Clover high low SH Trifollum repens var. repens White Clover Migh low SH Trifollum repens var. repens White Clover Migh low MH Actional and the Stellaria media Chickweed high low MTG Phalaris aquatica Troovomba Canary-grass high high MTG Paspalum dilatatum Paspalum high high MTG Paspalum dilatatum Paspalum high high MTG Aprostis stolonifera Creeping Bent high high MTG Aprostis stolonifera Creeping Bent high low MTG Paspalum dilatatum Paspalum high high high MTG Pa annua Annual Meadow-grass high low MTG Paspalum distichum MTG Panamus Carlisia Recuter Paritie Grass high low MTG Paspalum distichum MTG Panamus Carlisia Recuter Paritie Grass high low MTG Paramicaus Security High high high MTG Paspalum distichum MTG Panamus Annual Meadow-grass high low MTG Paramicaus Security High high High MTG Paspalum distichum MTG Panamus Carlisia Recuter Hig		5 , 5			
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MS Solanum pseudočapsicum Madeira Winter-cherry high high high Prunus cerasifera Cherry Plum high high high LH Cristum vulgare Spear Thistle high high high LH Solanum americanum Glossy Nightshade high high low LH Rorippa palustris Marsh Yellow-cress high high low LH Rumex pulcher ssp. pulcher Fiddle Dock high low LH Rumex crispus Curled Dock high high low LH Rumex crispus Curled Dock high high low LH Rumex crispus Curled Dock high high low LH Rumex conjolmeratus Clustered Dock high high low LH Rories conjolmeratus Clustered Dock high high low LH Rannaculus repens Paterson's Curse high low MH Anagalis avensis Pimpernel high low MH Ranunculus repens Creeping Buttercup high low MH Anagalis avensis Pimpernel high low MH Anagalis avensis Pimpernel high low MH Anagalis avensis Pimpernel high low MH Actotheca calendula Cape Weed high low MH Anagalis arvensis Pimpernel high low MH Atriplex prostrata Hastae Orache high low SH Trifolium repens var. repens White Clover high low SH Trifolium repens var. repens White Clover high low SH Trifolium repens var. repens White Clover Migh low LTG Phalaris aqualica Toowomba Canary-grass high low MTG Phalaris aqualica Toowomba Canary-grass high high MTG Aprosts stolonifera Red-flow Flag Iris high high MTG Aprosts stolonifera Creeping Bent high high MTG Aprosts stolonifera Creeping Bent high high MTG Aprosts stolonifera Creeping Bent high high MTG Paa annua Annual Meadow-grass high low MTG Paa annua Annual Meadow-grass high low MTG Enthartae erect avar. erecta Panic Velturgass high high high MTG Aprosts stolonifera Creeping Bent high high high MTG Paa annua Annual Meadow-grass high low MTG Enthartae erect avar. erecta Panic Velturgass high low MTG Enthartae erect avar. erecta Panic Velturgass high high high MTG Aprosts capillaris s.l.	•	Salix cinerea	Grey Sallow	high	high
MS Prunus cerasifera' Cherry Plum high high LH Cirsium vulgare Spear Thistle high high high LH Solanum americanum Glossy Nightshade high high high LH Plantago lanceolata Ribwort high low LH Rorippa palustris Marsh Yellow-cress high high low LH Sonchus aspers.1. Rough Sow-thistle high low LH Verbena bonariensis s.1. Purple-top Verbena high low LH Rumex pulcher ssp. pulcher Fiddle Dock high low LH Rumex crispus Curled Dock high high low LH Rumex crispus Curled Dock high high high LH Rumex conglomeratus Clustered Dock high high high LH Rumex conglomeratus Clustered Dock high high high High Hypochoeris radicata Cat's Ear high low MH Hypochoeris radicata Cat's Ear high low MH Anagallis arvensis Pimpernel high low MH Anagallis arvensis Pimpernel high low MH Arctotheca calendula Cape Weed high low MH Atrotheca calendula Cape Weed high low MH Stellaria media Chickweed high low SH Atrotheca calendula Cape Weed high low SH Atrotheca calendula Cape Weed high low MH Stellaria media Chickweed high low SH Atrotheca salendula Cape Weed high low SH Atrotheca salendula Cape Weed high low SH Atrotheca calendula Cape Weed high low SH Atrotheca calendula Cape Weed high low LTG Phalaris aquatica Tromomorba Canary-grass high low SH Atrotheca stagralis Common Starwort high low LTG Phalaris aquatica Toowomba Canary-grass high high low SH Calitriche stagralis Common Starwort high low SH Calitriche stagralis Common Starwort high high high MTG Argostis stolonifera Penantum MRG Argostis stolonifera Creeping Bent high high high MTG Argostis stolonifera Creeping B	T	Crataegus monogyna	Hawthorn	high	high
LH Cirsium vulgare Spear Thistle high high high LH Solanum americanum Glossy Nightshade high high high LH Rorippa palustris Marsh Yellow-cress high high low LH Rorippa palustris Marsh Yellow-cress high high low LH Sonchus asper s.l. Rough Sow-thistle high low LH Verbena bonariensis s.l. Purple-top Verbena high high low LH Rumex pulcher ssp. pulcher Fiddle Dock high low LH Rumex crispus Curled Dock high high high LH Rumex conglomeratus Clustered Dock high high high high LH Echium plantagineum Paterson's Curse high high high High High Ranunculus repens Creeping Buttercup high high high High Arcottheca calendula Cape Weed high low MH Arcottheca calendula Cape Weed high low MH Gamochaeta purpurea s.l. Purple Cudweed high low MH Gamochaeta purpurea s.l. Purple Cudweed high low MH Atriplex prostrata Hastate Orache high low Sellaria media Chickweed high low SH MMH Atriplex prostrata Hastate Orache high low SH MH Atriplex prostrata Hastate Orache high low SH Modiola carolinana Red-flower Mallow high low SH Modiola carolinana Red-flower Mallow high low MTG Phalaris aquatica Toowoomba Canary-grass high high MTG Phalaris aquatica Toowoomba Canary-grass high high MTG Paspalum dilatatum Paspalum high high MTG Argostis stolonifera Creeting Bent high low MTG Paspalum dilatatum Paspalum high high MTG Argostis stolonifera Creeting Bent high high MTG Argostis stolonifera Creeting Bent high high MTG Argostis stolonifera Creeting Bent high high hig	MS	Solanum pseudocapsicum	Madeira Winter-cherry	high	high
LH Solanum americanum Glossy Nightshade high low LH Rorippa palustris Marsh Yellow-cress high high low LH Rorippa palustris Marsh Yellow-cress high high high lut Verbena bonariensis s.l. Rough Sow-thistle high low LH Verbena bonariensis s.l. Purple-top Verbena high low LH Aster subulatus Aster-weed high low LH Rumex pulcher ssp. pulcher Fiddle Dock high low LH Rumex crispus Curled Dock high high high LH Rumex conglomeratus Custered Dock high high high high high High Hypochoeris radicata Cat's Ear high low MH Hypochoeris radicata Cat's Ear high low MH Aragallis arvensis Pimpernel high low MH Aragallis arvensis Pimpernel high low MH Aragallis arvensis Pimpernel high low MH Gamochaeta purpurea s.l. Purple Cudweed high low MH Gamochaeta purpurea s.l. Purple Cudweed high low MH Stellaria media Chickweed high low MH Stellaria media Chickweed high low SH Atripitum repens var. repens White Clover high low SH Modicla caroliniana Red-flower Mallow high low LTG Phalaris aquatica Toowoomba Canary-grass high high MTG Phalaris aquatica Toowoomba Canary-grass high high MTG Prabaris aquatica Toowoomba Canary-grass high high MTG Paspalum dilatatum Paspalum high high MTG Argostis stolonifera Creeping Bent high low MTG Argostis stolonifera Creeping Bent high high MTG Argostis stolonifera Creeping Bent high low MTG Argostis stolonifera Creeping Bent high high MTG Paspalum dilatatum Sweet Vernal-grass high high high MTG Argostis stolonifera Creeping Bent high high high MTG Argostis stolonifera Creeping	MS	Prunus cerasifera	Cherry Plum	high	high
LH Plantago lanceolata LH Rorippa palustris LH Rorippa palustris LH Sonchus asper s.l. LH Verbena bonariensis s.l. LH Verbena bonariensis s.l. LH Verbena bonariensis s.l. LH Rumex pulcher ssp. pulcher LH Rumex pulcher ssp. pulcher LH Rumex conglomeratus LH Rumex conglomeratus LH Rumex conglomeratus Curled Dock LH Rumex conglomeratus Custered Dock LIG Buttercup LH Rumex conglomeratus Custered Dock LIG	LH	Cirsium vulgare	Spear Thistle	high	high
LH Sonchus asper s.l. Rough Sow-thistle high low LH Sonchus asper s.l. Rough Sow-thistle high low LH Verbena bonariensis s.l. Purple-top Verbena high high low LH Aster subulatus Aster-weed high low LH Aster subulatus Aster-weed high low LH Rumex crispus Curled Dock high high ligh LH Rumex conglomeratus Clustered Dock high high high LH Rumex conglomeratus Clustered Dock high high high LH Remex conglomeratus Clustered Dock high high high lH Remex conglomeratus Clustered Dock high high high lH Remex conglomeratus Clustered Dock high high high lH Anagallis arvensis Cat's Ear high low Remoulus repens Creeping Buttercup high high low Anagallis arvensis Pimpernel high low low lH Anagallis arvensis Pimpernel high low low Removed high low Removed high low lH Aractotheca calendula Cape Weed high low lH Actrotheca calendula Cape Weed high low lH Lotus corniculatus Bird's-foot Trefoil high low lH Atriplex prostrata Hastate Orache high low Stellaria media Chickweed high low lStellaria repens var. repens White Clover high low lStellaria repensivation of the ligh ligh ligh ligh ligh ligh ligh ligh	LH	Solanum americanum	Glossy Nightshade	high	high
LH Verbena bonariensis s.l. Rough Sow-thistle high low high ligh ligh ligh ligh ligh ligh ligh	LH	Plantago lanceolata	Ribwort	high	low
LH Verbena bonariensis s.l. Purple-top Verbena high low LH Aster subulatus Aster-weed high low LH Rumex pulcher ssp. pulcher Fiddle Dock high high ligh LH Rumex crispus Curled Dock high high high LH Rumex conglomeratus Clustered Dock high high high LH Echium plantagineum Paterson's Curse high high high MH Hypochoeris radicata Cat's Ear high low MH Ranunculus repens Creeping Buttercup high high low MH Anagallis arvensis Pimpernel high low MH Anagallis arvensis Pimpernel high low MH Arcotheca calendula Cape Weed high low MH Gamochaeta purpurea s.l. Purple Cudweed high low MH Lotus corniculatus Bird's-foot Trefoil high low MH Stellaria media Chickweed high low SH Trifolium repens var. repens White Clover high low SH Modiola caroliniana Red-flower Mallow high low SH Callitriche stagnalis Common Starwort high low Migh LNG Pennisetum clandestinum Kikuyu high high MTG Paspalum dilatatum Paspalum high high MTG Paspalum dilatatum Paspalum high high MTG Paspalum dilatatum Paspalum high high MTG Anthoxantifera Creeping Bent high high MTG Anthoxantifera Starlaria Siener Perennial Rye-grass high high high MTG Anthoxantifera Creeping Bent high high MTG Anthoxantifera Starlaria Siener Perennial Rye-grass high high high MTG Anthoxantifera Creeping Bent high high high MTG Anthoxantifera Creeping Bent high high high MTG Agrostis stolonifera Creeping Bent high high high MTG Agrostis stolonifera Creeping Bent high high high MTG Agrostis stolonifera Creeping Bent high high high MTG Aprostis stolonifera Creeping Bent high high high high MTG Aprostis stolonifera Creeping Bent high high high high MTG Aprostis stolonifera Creeping Bent high high high high MTG Aprostis stolonifera Creeping Bent high high high high MTG Aprostis stolonifera Creeping Bent high high high high MTG Aprostis stolonifera Creeping Bent high high high high high MTG Aprostis capillaris s.l. Brown-top Bent	LH		Marsh Yellow-cress	high	high
LH Aster subulatus Aster-weed high low lLH Rumex pulcher ssp. pulcher Fiddle Dock high low lLH Rumex crispus Curled Dock high high high lLH Rumex conglomeratus Clustered Dock high high high lLH Rechium plantagineum Paterson's Curse high high low lLH Rechium plantagineum Paterson's Curse high high low lLH Ranunculus repens Creeping Buttercup high low lligh ligh ligh ligh ligh ligh ligh lig	LH	Sonchus asper s.l.	Rough Sow-thistle	high	low
LH Rumex pulcher ssp. pulcher LH Rumex crispus Curled Dock high high high LH Rumex conglomeratus Clustered Dock high high high high high high high high	LH	<i>Verbena bonariensis</i> s.l.	Purple-top Verbena	high	high
LH Rumex crispus LH Rumex conglomeratus LH Rumex conglomeratus Clustered Dock high high high high high high high high	LH		Aster-weed	high	low
LH Rumex conglomeratus LH Echium plantagineum Paterson's Curse Nigh Nigh NH Hypochoeris radicata Cat's Ear Nigh Nigh NH Ranunculus repens Creeping Buttercup Nigh Nigh NH Anagallis arvensis Plimpernel Nigh Nigh NH Anagallis arvensis Plimpernel Nigh Nigh NH Aratotheea calendula Cape Weed Nigh Now NH Coamochaeta purpurea s.l. Purple Cudweed Nigh Now NH Lotus corniculatus NH Atriplex prostrata Hastate Orache NH Stellaria media Chickweed Nigh Now NH Stellaria media Chickweed Nigh Now SH Trifolium repens var. repens Nhite Clover Nigh Now SH Callitriche stagnalis Common Starwort Nigh Nigh Nigh Nigh NTG Papalum dilatatum NTG Paspalum dilatatum NTG Lolium perenne Perennial Rye-grass NTG Perennia Rye-grass Nigh Nigh NTG Agrostis stolonifera Perennial Rye-grass Nigh Nigh NTG Agrostis stolonifera Creeping Buttercup Nigh Nigh NTG Setaria gracilis var. pauciseta NTG Paspalum dilatatus NTG Poa annua NTG Lolium ripidum NTG Setaria gracilis var. pauciseta NTG Paparasis Selender Nigen Grass Nigh Nigh NTG Poa pannua NTG Lolium ripidum NTG Lolium ripidum NTG Setaria gracilis var. pauciseta NTG Poa pratensis NTG Nigh Nigh NTG Poa pratensis NTG Lolium ripidum NTG Poa pratensis NTG Poa pratensis NTG Narves Selender Nigen Grass Nigh Nigh NTG Narves Selender Nigen Grass Nigh Nigh NTG Poa pratensis NTG Lolium ripidum NTG Lolium ripidum NTG Lolium ripidum NTG Poa pratensis NTG Lolium ripidum NTG Lolium ripidum NTG Poa pratensis NTG Lolium ripidum NTG Lolium ripidum NTG Poa pratensis NTG Narves Selender Nigen Grass Nigh Nigh Nigh NTG Poa pratensis NTG Narves Selender Nigen Grass Nigh Nigh Nigh NTG Poa pratensis NTG Narves Selender Nigen Cocksfoot Nigh Nigh Nigh NTG Narves Selender Nigen Nigen Nigh NTG Nigh Nigh Nigh NTG Poa pratensis NTG Nigh Nigh Nigh NTG Nigh Nigh Nigh NTG Nigh Nigh Nigh NTG Nigh Nigh	LH	Rumex pulcher ssp. pulcher	Fiddle Dock	high	low
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MH         Hypochoeris radicata         Cat's Ear         high         low           MH         Ranunculus repens         Creeping Buttercup         high         high         high         high         high         low           MH         Arctotheca calendula         Cape Weed         high         low         MH         Arctotheca calendula         Cape Weed         high         low         MH         Arctotheca calendula         Cape Weed         high         low         MH         Arctotheca calendula         Cape Weed         high         low         MH         Arctotheca calendula         Cape Weed         high         low         MH         Arctotheca calendula         Bigh         low         MH         Arctotheca calendula         Bigh         low         MH         Arctotheca calendula         Bigh         low         MH         Arctotheca calendula         Cape Weed         high         low         MH         Arctotheca calendula         Bigh         high         low         MH         Arctotheca calendula         Bigh         low         MH         Arctotheca calendula         Cape Weed         high         low         MIG         Low         MIG         Chickeed         high         low         MIG         Arctition and Calendula         Chickeed	LH	Rumex conglomeratus	Clustered Dock	high	high
MH         Ranunculus repens         Creeping Buttercup         high high low           MH         Anagallis arvensis         Pimpernel         high low           MH         Aractotheca calendula         Cape Weed         high low           MH         Gamochaeta purpurea s.l.         Purple Cudweed         high low           MH         Lotus corniculatus         Bird's-foot Trefoil         high low           MH         Atriplex prostrata         Hastate Orache         high low           MH         Atriplex prostrata         Hastate Orache         high low           MH         Stellaria media         Chickweed         high low           SH         Trifolium repens var. repens         White Clover         high low           SH         Modiola caroliniana         Red-flower Mallow         high low           SH         Callitriche stagnalis         Common Starwort         high low           LTG         Phalaris aquatica         Toowoomba Canary-grass         high high           LNG         Holcus lanatus         Yorkshire Fog         high high           LNG         Pennisetum clandestinum         Kikuyu         high high           MTG         Pispseudacorus         Yellow Flag Iris         high high           MTG	LH	Echium plantagineum	Paterson's Curse	high	high
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MH       Arctotheca calendula       Cape Weed       high low         MH       Gamochaeta purpurea s.l.       Purple Cudweed       high low         MH       Lotus corniculatus       Bird's-foot Trefoil       high low         MH       Atriplex prostrata       Hastate Orache       high low         MH       Stellaria media       Chickweed       high low         SH       Trifolium repens var. repens       White Clover       high low         SH       Modiola caroliniana       Red-flower Mallow       high low         SH       Callitriche stagnalis       Common Starwort       high low         LTG       Phalaris aquatica       Toowoomba Canary-grass       high high         LNG       Holcus lanatus       Yorkshire Fog       high high         LNG       Pennisetum clandestinum       Kikuyu       high high         MTG       Pennisetum clandestinum       Kikuyu       high high         MTG       Pennisetum clandestinum       Paspalum       high high         MTG       Pennisetum clandestinum       Paspalum       high high         MTG       Poperus eragrostis       Drain Flat-sedge       high high         MTG       Alpanum doratum       Sweet Vernal-grass       high high      <	MH	Ranunculus repens	Creeping Buttercup	high	high
MH       Gamochaeta purpurea s.l.       Purple Cudweed       high       low         MH       Lotus corniculatus       Bird's-foot Trefoil       high       low         MH       Atriplex prostrata       Hastate Orache       high       low         MH       Stellaria media       Chickweed       high       low         SH       Trifolium repens var. repens       White Clover       high       low         SH       Modiola caroliniana       Red-flower Mallow       high       low         SH       Callitriche stagnalis       Common Starwort       high       low         LTG       Phalaris aquatica       Toowoomba Canary-grass       high       high       high         LNG       Holcus lanatus       Yorkshire Fog       high       high       high         LNG       Holcus lanatus       Yorkshire Fog       high       high       high         MTG       Iris pseudacorus       Yellow Flag Iris       high       high       high         MTG       Iris pseudacorus       Yellow Flag Iris       high       high       high         MTG       Paspalum dilatatum       Paspalum la Rye-grass       high       high       high       high         MTG       A	MH	Anagallis arvensis	Pimpernel	high	low
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MH       Atriplex prostrata       Hastate Orache       high low         MH       Stellaria media       Chickweed       high low         SH       Trifolium repens var. repens       White Clover       high low         SH       Modiola caroliniana       Red-flower Mallow       high low         SH       Callitriche stagnalis       Common Starwort       high low         LTG       Phalaris aquatica       Toowoomba Canary-grass       high high         LNG       Phalaris aquatica       Toowoomba Canary-grass       high high         LNG       Holcus lanatus       Yorkshire Fog       high high         LNG       Pennisetum clandestinum       Kikuyu       high high         MTG       Iris pseudacorus       Yellow Flag Iris       high high         MTG       Iris pseudacorus       Yellow Flag Iris       high high         MTG       Paspalum dilatatum       Paspalum       high       high         MTG       Lolium perenne       Perennial Rye-grass       high       high         MTG       Aprostis stolonifera       Drain Flat-sedge       high       high         MTG       Agrostis stolonifera       Creeping Bent       high       high         MTG       Agrostis stolonifera	MH	Gamochaeta purpurea s.l.	Purple Cudweed	high	low
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LTG Phalaris aquatica Toowoomba Canary-grass high high LNG Holcus lanatus Yorkshire Fog high high LNG Pennisetum clandestinum Kikuyu high high MTG Iris pseudacorus Yellow Flag Iris high high MTG Paspalum dilatatum Paspalum high high MTG Lolium perenne Perennial Rye-grass high high MTG Cyperus eragrostis Drain Flat-sedge high high MTG Anthoxanthum odoratum Sweet Vernal-grass high high MTG Agrostis stolonifera Creeping Bent high high MTG Setaria gracilis var. pauciseta Slender Pigeon Grass high low MTG Bromus catharticus Prairie Grass high low MTG Poa annua Annual Meadow-grass high low MTG Lolium rigidum Wimmera Rye-grass high low MTG Lolium rigidum Wimmera Rye-grass high low MTG Agrostis capillaris s.l. Brown-top Bent high high MTG Agrostis capillaris s.l. Brown-top Bent high high MNG Dactylis glomerata Cocksfoot high high MNG Dactylis glomerata Cocksfoot high high MNG Paspalum distichum Water Couch high high MNG Poa pratensis Kentucky Blue-grass high high MNG Poa pratensis Kentucky Blue-grass high high MNG Poa pratensis Kentucky Blue-grass high high SC Rubus sp. aff. armeniacus Blackberry high high SC Vinca major Blue Periwinkle high high Nigh high	SH	Modiola caroliniana	Red-flower Mallow	high	low
LNG Holcus lanatus  Yorkshire Fog high high  LNG Pennisetum clandestinum  Kikuyu high high  MTG Iris pseudacorus  Yellow Flag Iris high high  MTG Paspalum dilatatum  Paspalum high high high  MTG Lolium perenne  Perennial Rye-grass high high  MTG Cyperus eragrostis  Drain Flat-sedge high high  MTG Anthoxanthum odoratum  Sweet Vernal-grass high high  MTG Agrostis stolonifera  Creeping Bent high high  MTG Setaria gracilis var. pauciseta  Slender Pigeon Grass high low  MTG Bromus catharticus  Prairie Grass high low  MTG Poa annua  Annual Meadow-grass high low  MTG Lolium rigidum  MTG Lolium rigidum  MTG Ehrharta erecta var. erecta  Panic Veldt-grass high high  MTG Agrostis capillaris s.l.  Brown-top Bent high high  MNG Dactylis glomerata  Cocksfoot high high  MNG Paspalum distichum  Water Couch  MNG Paspalum distichum  Water Couch  Nigh high  Nigh  Nigh high  Nigh  SC Rubus sp. aff. armeniacus  Blue Periwinkle  Nigh high  Nigh  Nigh high  Nigh	SH	Callitriche stagnalis	Common Starwort	high	low
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MTGPaspalum dilatatumPaspalumhighhighMTGLolium perennePerennial Rye-grasshighhighMTGCyperus eragrostisDrain Flat-sedgehighhighMTGAnthoxanthum odoratumSweet Vernal-grasshighhighMTGAgrostis stoloniferaCreeping BenthighhighMTGSetaria gracilis var. paucisetaSlender Pigeon GrasshighlowMTGBromus catharticusPrairie GrasshighlowMTGPoa annuaAnnual Meadow-grasshighlowMTGLolium rigidumWimmera Rye-grasshighlowMTGEhrharta erecta var. erectaPanic Veldt-grasshighhighMTGAgrostis capillaris s.l.Brown-top BenthighhighMNGDactylis glomerataCocksfoothighhighMNGDactylis glomerataCocksfoothighhighMNGPaspalum distichumWater CouchhighhighMNGPaspalum distichumWater CouchhighhighMNGPoa pratensisKentucky Blue-grasshighhighSCVinca majorBlackberryhighhighSCVinca majorBlue PeriwinklehighhighNighhighhigh	LNG	Pennisetum clandestinum	Kikuyu	high	high
MTG Lolium perenne Perennial Rye-grass high high MTG Cyperus eragrostis Drain Flat-sedge high high MTG Anthoxanthum odoratum Sweet Vernal-grass high high MTG Agrostis stolonifera Creeping Bent high high MTG Setaria gracilis var. pauciseta Slender Pigeon Grass high low MTG Bromus catharticus Prairie Grass high low MTG Poa annua Annual Meadow-grass high low MTG Lolium rigidum Wimmera Rye-grass high low MTG Ehrharta erecta var. erecta Panic Veldt-grass high high MTG Agrostis capillaris s.l. Brown-top Bent high high MNG Dactylis glomerata Cocksfoot high high MNG Leersia oryzoides Rice Cut-grass high high MNG Paspalum distichum Water Couch high high SC Rubus sp. aff. armeniacus Blackberry high high SC Vinca major Blue Periwinkle high high high SC Tradescantia fluminensis Wandering Jew high high	MTG	Iris pseudacorus	Yellow Flag Iris	high	high
MTG Cyperus eragrostis Drain Flat-sedge high high MTG Anthoxanthum odoratum Sweet Vernal-grass high high MTG Agrostis stolonifera Creeping Bent high high MTG Setaria gracilis var. pauciseta Slender Pigeon Grass high low MTG Bromus catharticus Prairie Grass high low MTG Poa annua Annual Meadow-grass high low MTG Lolium rigidum Wimmera Rye-grass high low MTG Ehrharta erecta var. erecta Panic Veldt-grass high high MTG Agrostis capillaris s.l. Brown-top Bent high high MNG Dactylis glomerata Cocksfoot high high MNG Leersia oryzoides Rice Cut-grass high high MNG Paspalum distichum Water Couch high high MNG Poa pratensis Kentucky Blue-grass high high SC Rubus sp. aff. armeniacus Blackberry high high SC Vinca major Blue Periwinkle high high SC Tradescantia fluminensis Wandering Jew high high	MTG	Paspalum dilatatum	Paspalum	high	high
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MTG Agrostis stolonifera Creeping Bent high high MTG Setaria gracilis var. pauciseta Slender Pigeon Grass high low MTG Bromus catharticus Prairie Grass high low MTG Poa annua Annual Meadow-grass high low MTG Lolium rigidum Wimmera Rye-grass high low MTG Ehrharta erecta var. erecta Panic Veldt-grass high high MTG Agrostis capillaris s.l. Brown-top Bent high high MNG Dactylis glomerata Cocksfoot high high MNG Leersia oryzoides Rice Cut-grass high high MNG Paspalum distichum Water Couch high high MNG Poa pratensis Kentucky Blue-grass high high SC Rubus sp. aff. armeniacus Blackberry high high SC Vinca major Blue Periwinkle high high SC Tradescantia fluminensis Wandering Jew high high	MTG	Cyperus eragrostis	Drain Flat-sedge	high	high
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MTGBromus catharticusPrairie GrasshighlowMTGPoa annuaAnnual Meadow-grasshighlowMTGLolium rigidumWimmera Rye-grasshighhighMTGEhrharta erecta var. erectaPanic Veldt-grasshighhighMTGAgrostis capillaris s.l.Brown-top BenthighhighMNGDactylis glomerataCocksfoothighhighMNGLeersia oryzoidesRice Cut-grasshighhighMNGPaspalum distichumWater CouchhighhighMNGPoa pratensisKentucky Blue-grasshighhighSCRubus sp. aff. armeniacusBlackberryhighhighSCVinca majorBlue PeriwinklehighhighSCTradescantia fluminensisWandering Jewhighhigh	MTG	Agrostis stolonifera	Creeping Bent	high	high
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MTG Agrostis capillaris s.l.  MNG Dactylis glomerata  Cocksfoot  NNG Leersia oryzoides  NNG Paspalum distichum  NNG Poa pratensis  SC Rubus sp. aff. armeniacus  SC Vinca major  SC Tradescantia fluminensis  MTG Agrostis capillaris s.l.  Brown-top Bent  high  high  high  high  high  Water Couch  Kentucky Blue-grass  Blackberry  Blue Periwinkle  high  high  high  high  high  high	MTG	Lolium rigidum	Wimmera Rye-grass	high	low
MNG Dactylis glomerata Cocksfoot high high MNG Leersia oryzoides Rice Cut-grass high high MNG Paspalum distichum Water Couch high high MNG Poa pratensis Kentucky Blue-grass high high SC Rubus sp. aff. armeniacus Blackberry high high SC Vinca major Blue Periwinkle high high SC Tradescantia fluminensis Wandering Jew high high	MTG	Ehrharta erecta var. erecta	Panic Veldt-grass	high	high
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MNG Poa pratensis Kentucky Blue-grass high high SC Rubus sp. aff. armeniacus Blackberry high high SC Vinca major Blue Periwinkle high high SC Tradescantia fluminensis Wandering Jew high high	MNG	Leersia oryzoides	Rice Cut-grass	high	high
MNG Poa pratensis Kentucky Blue-grass high high SC Rubus sp. aff. armeniacus Blackberry high high SC Vinca major Blue Periwinkle high high SC Tradescantia fluminensis Wandering Jew high high	MNG	Paspalum distichum	Water Couch	high	high
SCRubus sp. aff. armeniacusBlackberryhighhighSCVinca majorBlue PeriwinklehighhighSCTradescantia fluminensisWandering Jewhighhigh	MNG		Kentucky Blue-grass	high	high
SC <i>Tradescantia fluminensis</i> Wandering Jew high high	SC		Blackberry		
SC <i>Tradescantia fluminensis</i> Wandering Jew high high	SC	Vinca major	Blue Periwinkle	high	high
	SC			•	
	SC	Galium aparine	Cleavers	high	low

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Dense thickets of Woolly Tea-tree *Leptospermum lanigerum* and/or Scented Paperbark *Melaleuca squarrosa* to 6 m tall with occasional emergent eucalypts that occur on broad beds of small streams or on regular flooded terraces of large streams and rivers. Ground layer is dominated by a number of ferns, tree-ferns and sedges.

### **Canopy Cover:**

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

understorey:			
Life form	#Spp	%Cover	LF code
Medium Shrub	8	30%	MS
Small Shrub	3	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	2	5%	LH
Medium Herb	5	10%	MH
Small or Prostrate Herb	1	5%	SH
Large Tufted Graminoid	3	10%	LTG
Large Non-tufted Graminoid	2	5%	LNG
Medium to Small Tufted Graminoid	2	5%	MTG
Medium to Tiny Non-tufted Graminoid	3	15%	MNG
Ground Fern	3	10%	GF
Tree Fern	1	5%	TRF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	20%	BL

<b>LF Code</b> MS	Species typical of at least part of EVC range Epacris impressa	Common Name Common Heath
MS	Cassinia aculeata	Common Cassinia
MS	Ozothamnus rosmarinifolius	Rosemary Everlasting
MS	Kunzea ericoides	Burgan
SS	Dampiera stricta	Blue Dampiera
SS	Amperea xiphoclada var. xiphoclada	Broom Spurge
SS	Acacia brownii	Heath Wattle
PS	Acrotriche prostrata	Trailing Ground-berry
LH	Senecio minimus	Shrubby Fireweed
LH	Epilobium pallidiflorum	Showy Willow-herb
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH	Gonocarpus tetragynus	Common Raspwort
LTG	Cyperus lucidus	Leafy Flat-sedge
LTG	Carex appressa	Tall Sedge
LNG	Tetrarrhena juncea	Forest Wire-grass
LNG	Gahnia radula	Thatch Saw-sedge
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Lepidosperma filiforme	Common Rapier-sedge
MNG	Poa tenera	Slender Tussock-grass
MNG	Microlaena stipoides var. stipoides	Weeping Grass
MNG	Baumea tetragona	Square Twig-sedge
GF	Gleichenia dicarpa	Pouched Coral-fern
GF	Pteridium esculentum	Austral Bracken
GF	Blechnum minus	Soft Water-fern
TRF	Cyathea australis	Rough Tree-fern
SC	Billardiera scandens	Common Apple-berry



# EVC 59: Riparian Thicket Highlands – Southern Fall bioregion

### **Recruitment:**

Continuous

#### **Organic Litter:**

40 % cover

#### Weediness:

Weeumess.				
LF Code	Typical Weed Species	Common Name	Invasive	Impact
T	Salix cinerea	Grey Sallow	high	high
T	Pinus radiata	Radiata Pine	high	high
MS	Prunus cerasifera	Cherry Plum	high	high
MS	Cotoneaster pannosus	Velvet Cotoneaster	high	high
MS	Erica lusitanica	Spanish Heath	high	high
SS	Rubus sp. aff. armeniacus	Blackberry	high	high
LH	Solanum nigrum sensu Willis (1972)	Black Nightshade	high	low
MH	Lotus suaveolens	Hairy Bird's-foot Trefoil	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Prunella vulgaris	Self-heal	high	low
SH	Callitriche stagnalis	Common Starwort	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high

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# EVC 61: Box Ironbark Forest

#### **Description:**

Occurs on gently undulating rises, low hills and peneplains 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

 Eucalyptus spp.
 70 cm
 15 / ha

#### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name30%Eucalyptus polyanthemos<br/>Eucalyptus macrorhyncha<br/>Eucalyptus goniocalyx s.l.Red Box<br/>Red Stringybark<br/>BundyEucalyptus goniocalyx s.l.<br/>Eucalyptus tricarpaBundy<br/>Red Ironbark

J. 140. 500. 67.			
Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	ΙΤ
Medium Shrub	4	20%	MS
Small Shrub	3	10%	SS
Prostrate Shrub	2	1%	PS
Large Herb	2	5%	LH
Medium Herb	10	15%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	5	10%	MTG
Ground Fern	1	1%	GF
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	20%	S/C
Total understorey projective foliage cover		80%	

I F Code	Species typical of at least part of FVC range	

F Code	Species typical of at least part of EVC range	Common Name
MS	Acacia genistifolia	Spreading Wattle
MS	Pultenaea gunnii	Golden Bush-pea
MS	Kunzea ericoides	Burgan
MS	Cassinia aculeata	Common Cassinia
SS	Dillwynia phylicoides	Small-leaf Parrot-pea
SS	Leucopogon virgatus	Common Beard-heath
SS	Dillwynia cinerascens s.l.	Grey Parrot-pea
PS	Acrotriche serrulata	Honey-pots
LH	Senecio tenuiflorus	Slender Fireweed
LH	Wahlenbergia stricta	Tall Bluebell
MH	Gonocarpus tetragynus	Common Raspwort
MH	Glossodia major	Wax-lip Orchid
MH	Drosera peltata ssp. auriculata	Tall Sundew
MH	Poranthera microphylla	Small Poranthera
SH	Opercularia varia	Variable Stinkweed
SH	Hydrocotyle laxiflora	Stinking Pennywort
LNG	Gahnia radula	Thatch Saw-sedge
MTG	Joycea pallida	Silvertop Wallaby-grass
MTG	Lomandra filiformis ssp. filiformis	Wattle Mat-rush
MTG	Lomandra nana	Dwarf Mat-rush
MTG	Dianella revoluta s.l.	Black-anther Flax-lily
SC	Thysanotus patersonii	Twining Fringe-lily



# EVC 61: Box Ironbark Forest Highlands – Southern Fall bioregion

#### **Recruitment:**

Continuous

#### **Organic Litter:**

20 % cover

#### Logs:

20 m/0.1 ha.

#### Weediness:

**Typical Weed Species LF Code Common Name Invasive Impact** МН Hypochoeris radicata Cat's Ear high low MTG Briza maxima Large Quaking-grass high low

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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:**

%coverCharacter SpeciesCommon Name30%Acacia dealbataSilver WattlePomaderris asperaHazel Pomaderris

onderstorey.			
Life form	#Spp	%Cover	LF code
Immature Canopy Shrub		5%	IT
Medium Shrub	10	25%	MS
Large Herb	4	5%	LH
Medium Herb	13	20%	MH
Small or Prostrate Herb	6	10%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	6	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	5	15%	GF
Scrambler or Climber	3	5%	SC
Bryophytes/Lichens	na	10%	BL



# EVC 82: Riverine Escarpment Scrub Highlands – Southern Fall bioregion

LF Code	Species typical of at least part of EVC range	<b>Common Name</b>
MS	Olearia lirata	Snowy Daisy-bush
MS	Coprosma quadrifida	Prickly Currant-bush
MS	Pimelea axiflora	Bootlace Bush
MS	Prostanthera lasianthos	Victorian Christmas-bush
SS	Hibbertia obtusifolia	Grey Guinea-flower
PS	Acrotriche serrulata	Honey-pots
LH	Ajuga australis	Austral Bugle
LH	Xerochrysum bracteatum	Golden Everlasting
LH	Senecio tenuiflorus	Slender Fireweed
MH	Euchiton collinus s.l.	Clustered/Creeping Cudweed
MH	Veronica calycina	Hairy Speedwell
MH	Acaena novae-zelandiae	Bidgee-widgee
MH	Hypericum gramineum	Small St John's Wort
SH	Dichondra repens	Kidney-weed
SH	Oxalis exilis	Shady Wood-sorrel
SH	Hydrocotyle laxiflora	Stinking Pennywort
SH	Desmodium gunnii	Southern Tick-trefoil
LTG	Carex appressa	Tall Sedge
LTG	Austrostipa rudis ssp. nervosa	Veined Spear-grass
LTG	Lomandra longifolia ssp. exilis	Cluster-headed Mat-rush
LNG	Tetrarrhena juncea	Forest Wire-grass
MTG	Dianella tasmanica	Tasman Flax-lily
MTG	Carex breviculmis	Common Grass-sedge
MTG	Isolepis inundata	Swamp Club-sedge
MTG	Schoenus maschalinus	Leafy Bog-sedge
MNG	Microlaena stipoides var. stipoides	Weeping Grass
MNG	Echinopogon ovatus	Common Hedgehog-grass
MNG	Poa tenera	Slender Tussock-grass
GF	Pteridium esculentum	Austral Bracken
GF	Adiantum aethiopicum	Common Maidenhair
GF	Polystichum proliferum	Mother Shield-fern
GF	Pellaea falcata s.l.	Sickle Fern
TRF	Dicksonia antarctica	Soft Tree-fern
TRF	Cvathea australis	Rough Tree-fern
SC	Clematis glycinoides var. glycinoides	Forest Clematis

## **Recruitment:**

Continuous

# **Organic Litter:**

40 % cover

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

### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Rubus polyanthemus	Blackberry	high	high
MS	Rubus fruticosus spp. agg.	Blackberry	high	high
LH	Cirsium vulgare	Spear Thistle	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Centaurium erythraea	Common Centaury	high	low
MH	Prunella vulgaris	Self-heal	high	low
MH	Gamochaeta purpurea s.l.	Purple Cudweed	high	low

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# 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** *Eucalyptus* spp. **DBH(cm)**#/ha
60 cm
10 / ha

## **Tree Canopy Cover:**

%cover	Character Species	<b>Common Name</b>
20%	Eucalyptus camphora ssp. humeana	Mountain Swamp-gum

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	ΙΤ
Understorey Tree or Large Shrub	4	25%	T
Medium Shrub	4	20%	MS
Small Shrub	1	1%	SS
Prostrate Shrub	1	1%	PS
Large Herb	3	5%	LH
Medium Herb	6	10%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	3	15%	LTG
Large Non-tufted Graminoid	2	10%	LNG
Medium to Small Tufted Graminoid	6	15%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	2	5%	GF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL

, , , ,		
LF Code	Species typical of at least part of EVC range	<b>Common Name</b>
T	Exocarpos cupressiformis	Cherry Ballart
T	Acacia melanoxylon	Blackwood
MS	Leptospermum lanigerum	Woolly Tea-tree
MS	Leptospermum continentale	Prickly Tea-tree
MS	Coprosma quadrifida	Prickly Currant-bush
PS	Xanthosia dissecta s.l.	Cut-leaf Xanthosia
LH	Senecio minimus	Shrubby Fireweed
LH	Lycopus australis	Australian Gipsywort
MH	Gonocarpus tetragynus	Common Raspwort
LTG	Poa labillardierei	Common Tussock Grass
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LTG	Juncus procerus	Tall Rush
LTG	Gahnia sieberiana	Red-fruit Saw-sedge
LNG	Baumea rubiginosa s.l.	Soft Twig-rush
LNG	Phragmites australis	Common Reed
MTG	Carex gaudichaudiana	Fen Sedge
MTG	Dianella revoluta s.s.	Black-anther Flax-lily
MTG	Lomandra filiformis	Wattle Mat-rush
MNG	Microlaena stipoides var. stipoides	Weeping Grass
SC	Billardiera scandens	Common Apple-berry



# EVC 83: Swampy Riparian Woodland Highlands – Southern Fall bioregion

#### **Recruitment:**

Continuous

#### **Organic Litter:**

20 % cover

20 m/0.1 ha.

#### Weediness:

LF Code	Typical Weed Species	<b>Common Name</b>	Invasive	Impact
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Centaurium erythraea	Common Centaury	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high
MTG	Briza maxima	Large Quaking-grass	high	low

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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

 Eucalyptus spp.
 70 cm
 20 / ha

### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name30%Eucalyptus macrorhyncha<br/>Eucalyptus divesRed StringybarkEucalyptus dives<br/>Eucalyptus obliquaBroad-leaved Peppermint<br/>Messmate Stringybark

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	3	10%	T
Medium Shrub	7	15%	MS
Small Shrub	5	10%	SS
Prostrate Shrub	2	1%	PS
Medium Herb	6	10%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	2	20%	LNG
Medium to Small Tufted Graminoid	7	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 Highlands – Southern Fall bioregion

LF Code	Species typical of at least part of EVC range	Common Name
Т	Exocarpos cupressiformis	Cherry Ballart
Т	Acacia melanoxylon	Blackwood
MS	Epacris impressa	Common Heath
MS	Cassinia aculeata	Common Cassinia
MS	Daviesia leptophylla	Narrow-leaf Bitter-pea
MS	Cassinia arcuata	Drooping Cassinia
SS	Platylobium obtusangulum	Common Flat-pea
SS	Dillwynia cinerascens s.l.	Grey Parrot-pea
SS	Hovea heterophylla	Common Hovea
SS	Pimelea humilis	Common Rice-flower
PS	Acrotriche serrulata	Honey-pots
PS	Bossiaea prostrata	Creeping Bossiaea
MH	Leptorhynchos tenuifolius	Wiry Buttons
MH	Gonocarpus tetragynus	Common Raspwort
MH	Helichrysum scorpioides	Button Everlasting
SH	Opercularia varia	Variable Stinkweed
SH	Drosera whittakeri ssp. aberrans	Scented Sundew
SH	Oxalis corniculata s.l.	Yellow Wood-sorrel
LTG	Xanthorrhoea minor ssp. lutea	Small Grass-tree
LTG	Deyeuxia quadriseta	Reed Bent-grass
LNG	Gahnia radula	Thatch Saw-sedge
MTG	Joycea pallida	Silvertop Wallaby-grass
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Poa morrisii	Soft Tussock-grass
MTG	Dianella revoluta s.l.	Black-anther Flax-lily
MNG	Microlaena stipoides var. stipoides	Weeping Grass
GF	Lindsaea linearis	Screw Fern
SC	Billardiera scandens	Common Apple-berry
SC	Hardenbergia violacea	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	<b>Common Name</b>	Invasive	Impact
T	Pinus radiata	Radiata Pine	low	high
MS	Rubus fruticosus spp. agg.	Blackberry	high	high
LH	Plantago lanceolata	Ribwort	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high

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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

 Eucalyptus spp.
 70 cm
 20 / ha

## **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name30%Eucalyptus radiata s.l.Narrow-leaf PeppermintEucalyptus obliquaMessmate StringybarkEucalyptus goniocalyx s.l.Bundy

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

LF Code  T MS MS MS MS MS SS PS PS MH MH MH SH SH LTG LTG LNG MTG MNG	Species typical of at least part of EVC range Acacia mearnsii Ozothamnus ferrugineus Epacris impressa Cassinia aculeata Leptospermum continentale Pimelea humilis Acrotriche serrulata Acrotriche prostrata Gonocarpus tetragynus Hypericum gramineum Viola hederacea sensu Willis (1972) Dichondra repens Opercularia varia Deyeuxia quadriseta Lomandra longifolia Gahnia radula Lomandra filiformis Themeda triandra	Common Name Black Wattle Tree Everlasting Common Heath Common Cassinia Prickly Tea-tree Common Rice-flower Honey-pots Trailing Ground-berry Common Raspwort Small St John's Wort Ivy-leaf Violet Kidney-weed Variable Stinkweed Reed Bent-grass Spiny-headed Mat-rush Thatch Saw-sedge Wattle Mat-rush Kangaroo Grass



# EVC 128: Grassy Forest Highlands – Southern Fall bioregion

#### **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
MS	Rubus fruticosus spp. agg.	Blackberry	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Centaurium erythraea	Common Centaury	high	low
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high

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# EVC 132: Plains Grassland

#### **Description:**

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

### **Life Forms:**

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

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

#### Recruitment:

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

## **Organic Litter:**

10% cover



# EVC 132: Plains Grassland Highlands - Southern Fall bioregion

#### Weediness:

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

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EVC 151: Plains Grassy Forest

#### **Description:**

Open forest to 20 m tall often above a heathy shrub layer and a diverse grassy, sedgy and herbaceous ground layer. Occurs on lowland plains and old river terraces made up of gravelly sandy clays.

# Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 20 / ha

#### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name30%Eucalyptus muelleriana<br/>Eucalyptus bridgesiana s.l.<br/>Eucalyptus polyanthemos<br/>Eucalyptus macrorhynchaBut But<br/>Red Box<br/>Red Stringybark

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



# **EVC 151: Plains Grassy Forest** Highlands - Southern Fall bioregion

LF Code	Species typical of at least part of EVC range	<b>Common Name</b>
T	Allocasuarina littoralis	Black Sheoak
T	Acacia mearnsii	Black Wattle
T	Acacia implexa	Lightwood
T	Exocarpos cupressiformis	Cherry Ballart
MS	Leptospermum continentale	Prickly Tea-tree
MS	Banksia marginata	Silver Banksia
MS	Kunzea ericoides	Burgan
MS	Melaleuca parvistaminea	Rough-barked Honey-myrtle
SS	Pimelea humilis	Common Rice-flower
SS	Hibbertia riparia	Erect Guinea-flower
SS	Platylobium obtusangulum	Common Flat-pea
SS	Phyllanthus hirtellus	Thyme Spurge
PS	Acrotriche serrulata	Honey-pots
PS	Bossiaea prostrata	Creeping Bossiaea
PS	Astroloma humifusum	Cranberry Heath
LH	Tricoryne elatior	Yellow Rush-lily
LH	Wahlenbergia gracilis s.l.	Sprawling Bluebell
MH	Poranthera microphylla	Small Poranthera
MH	Hypericum gramineum	Small St John's Wort
MH	Hydrocotyle hirta	Hairy Pennywort
MH	Gonocarpus tetragynus	Common Raspwort
SH	Dichondra repens	Kidney-weed
SH	Oxalis corniculata s.l.	Yellow Wood-sorrel
SH	Opercularia varia	Variable Stinkweed
LTG	Xanthorrhoea minor ssp. lutea	Small Grass-tree
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LNG	Gahnia radula	Thatch Saw-sedge
MTG	Themeda triandra	Kangaroo Grass
MTG	Poa australis spp. agg.	Tussock Grass
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Lepidosperma laterale	Variable Sword-sedge
MNG	Microlaena stipoides var. stipoides	Weeping Grass
MNG	Entolasia marginata	Bordered Panic
GF	Pteridium esculentum	Austral Bracken

## **Recruitment:**

Continuous

# **Organic Litter:**

20 % cover

### Logs:

20 m/0.1 ha.

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Centaurium tenuiflorum	Slender Centaury	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Centaurium erythraea	Common Centaury	high	low

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# 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
Eucalyptus spp.
70 cm
10 / ha

## **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name20%Eucalyptus ovataSwamp Gum

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



# EVC 164: Creekline Herb-rich Woodland Highlands – Southern Fall bioregion

LF Code	Species typical of at least part of EVC range	<b>Common Name</b>
T	Acacia melanoxylon	Blackwood
MS	Acacia stricta	Hop Wattle
MS	Ozothamnus ferrugineus	Tree Everlasting
MS	Olearia lirata	Snow Daisy-bush
SS	Pimelea humilis	Common Rice-flower
SS	Hovea heterophylla	Common Hovea
PS	Astroloma humifusum	Cranberry Heath
PS	Acrotriche serrulata	Honey-pots
LH	Pterostylis longifolia s.l.	Tall Greenhood
LH	Senecio quadridentatus	Cotton Fireweed
MH	Gonocarpus tetragynus	Common Raspwort
MH	Lagenophora stipitata	Common Bottle-daisy
MH	Lagenophora gracilis	Slender Bottle-daisy
MH	Acaena novae-zelandiae	Bidgee-widgee
SH	Opercularia varia	Variable Stinkweed
SH	Dichondra repens	Kidney-weed
SH	Drosera whittakeri ssp. aberrans	Scented Sundew
SH	Chiloglottis gunnii s.l.	Common Bird-orchid
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LTG	Deyeuxia quadriseta	Reed Bent-grass
LNG	Gahnia radula	Thatch Saw-sedge
MTG	Themeda triandra	Kangaroo Grass
MTG	Dianella revoluta s.s.	Black-anther Flax-lily
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Carex inversa	Knob Sedge
MNG	Microlaena stipoides var. stipoides	Weeping Grass
GF	Pteridium esculentum	Austral Bracken
GF	Adiantum aethiopicum	Common Maidehair
SC	Hardenbergia violacea	Purple Coral-pea
SC	Thysanotus patersonii	Twining Fringe-lily

# **Recruitment:**

Continuous

## **Organic Litter:**

20 % cover

#### Logs:

10 m/0.1 ha.

#### Weediness:

LF Code	Typical Weed Species	<b>Common Name</b>	Invasive	Impact
MS	Prunus cerasifera	Cherry Plum	high	high
MS	Rubus sp. aff. armeniacus	Blackberry	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Leontodon taraxacoides ssp. taraxacoides	Hairy Hawkbit	high	low
MH	Hypochoeris glabra	Smooth Cat's-ear	high	low
MH	Centaurium erythraea	Common Centaury	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high
MTG	Briza minor	Lesser Quaking-grass	high	low
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MNG	Aira elegantissima	Delicate Hair-grass	high	low

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Open eucalypt forest to 20 m tall occurring along minor gullies, ephemeral streams and river flats. The overstorey may contain a range of eucalypts typical of drier environments over an understorey of scattered shrubs and a notably mossy herb-rich groundcover.

# Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 20 / ha

## **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name30%Eucalyptus macrorhyncha<br/>Eucalyptus cypellocarpaRed Stringybark<br/>Mountain Grey-gum

•			
Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	4	15%	T
Medium Shrub	9	30%	MS
Small Shrub	3	10%	SS
Prostrate Shrub	1	1%	PS
Large Herb	4	5%	LH
Medium Herb	11	15%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	3	5%	LTG
Medium to Small Tufted Graminoid	4	15%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	3	10%	GF
Tree Fern	1	5%	TRF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL



# EVC 169: Dry Valley Forest Highlands – Southern Fall bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	Olearia argophylla	Musk Daisy-bush
T	Acacia dealbata	Silver Wattle
MS	Pimelea axiflora	Bootlace Bush
MS	Olearia phlogopappa	Dusty Daisy-bush
MS	Coprosma quadrifida	Prickly Currant-bush
MS	Goodia lotifolia	Golden Tip
SS	Tetratheca pilosa	Hairy Pink-bells
SS	Hibbertia obtusifolia	Grey Guinea-flower
SS	Olearia megalophylla	Large-leaf Daisy-bush
LH	Stypandra glauca	Nodding Blue-lily
LH	Chrysocephalum semipapposum	Clustered Everlasting
MH	Stellaria pungens	Prickly Starwort
MH	Hydrocotyle hirta	Hairy Pennywort
MH	Gonocarpus tetragynus	Common Raspwort
SH	Leptinella filicula	Mountain Cotula
SH	Chiloglottis gunnii s.l.	Common Bird-orchid
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LTG	Gahnia sieberiana	Red-fruit Saw-sedge
LTG	Deyeuxia frigida	Forest Bent-grass
MTG	Poa australis spp. agg.	Tussock Grass
MTG	Libertia pulchella	Pretty Grass-flag
MTG	Dianella revoluta s.l.	Black-anther Flax-lily
MNG	Microlaena stipoides var. stipoides	Weeping Grass
GF	Blechnum wattsii	Hard Water-fern
GF	Polystichum proliferum	Mother Shield-fern
SC	Hardenbergia violacea	Purple Coral-pea

#### **Recruitment:**

Continuous

#### **Organic Litter:**

40 % cover

20 m/0.1 ha.

#### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Cerastium glomeratum s.l.	Common Mouse-ear Chickweed	high	low

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# EVC 175: Grassy Woodland

#### **Description:**

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

# Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 15 / ha

## **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name20%Eucalyptus bridgesiana s.l.But But<br/>Eucalyptus rubidaEucalyptus rubida<br/>Eucalyptus paucifloraCandlebark<br/>Snow Gum

### **Understorey:**

#Spp	%Cover	LF code
	5%	IT
1	10%	T
4	15%	MS
2	5%	SS
2	5%	LH
7	20%	MH
2	5%	SH
1	1%	LTG
7	35%	MTG
1	5%	MNG
1	5%	GF
1	1%	SC
na	10%	BL
	1 4 2 2 7 2 1 7 1 1	5% 1 10% 4 15% 2 5% 7 20% 2 5% 1 1% 7 35% 1 5% 1 5% 1 1%

LF Code	Species typical of at least part of EVC range	Common Name
т	Acacia doalhata	Cilvor Wattle

	Acacia dealbata	Silver Wattle
	Daviesia ulicifolia	Gorse Bitter-pea
	Hovea heterophylla	Common Hovea
	Acrotriche serrulata	Honey-pots
	Senecio tenuiflorus	Slender Fireweed
	Gonocarpus tetragynus	Common Raspwort
	Plantago hispida	Hairy Plantain
	Daucus glochidiatus	Australian Carrot
	Leptorhynchos squamatus	Scaly Buttons
r	Scleranthus diander	Tufted Knawel
	Themeda triandra	Kangaroo Grass
	Stylidium graminifolium s.l.	Grass Trigger-plant
	Carex breviculmis	Common Grass-sedge
	Schoenus apogon	Common Bog-sedge
	Hardenbergia violacea	Purple Coral-pea
	r	Daviesia ulicifolia Hovea heterophylla Acrotriche serrulata Senecio tenuiflorus Gonocarpus tetragynus Plantago hispida Daucus glochidiatus Leptorhynchos squamatus  r Scleranthus diander Themeda triandra Stylidium graminifolium s.l. Carex breviculmis Schoenus apogon

## **Recruitment:**

Continuous

#### **Organic Litter:**

20 % cover

### Logs:

15 m/0.1 ha.

#### Weediness:

LF Code MH Centaurium erythraea Common Name Common Centaury Invasive Impact high low



# EVC 175: Grassy Woodland Highlands – Southern Fall bioregion

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Open eucalypt forest to 20 m tall. Occurs on steep, eroding slopes in dry country above the Mitchell, Dargo and Tambo Rivers. 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

 Eucalyptus spp.
 70 cm
 20 / ha

**Tree Canopy Cover:** 

%coverCharacter SpeciesCommon Name30%Eucalyptus polyanthemosRed BoxEucalyptus melliodoraYellow BoxEucalyptus elataRiver Peppermint

Life form		#Spp	%Cover	LF code
Immature Canopy Tree			5%	IT
Understorey Tree or Large Shr	ub	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 Grami	noid	6	15%	MTG
Medium to Tiny Non-tufted Gra	aminoid	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 Highlands – Southern Fall bioregion

LF Code	Species typical of at least part of EVC range	<b>Common Name</b>
T	Exocarpos cupressiformis	Cherry Ballart
T	Acacia implexa	Lightwood
T	Acacia mearnsii	Black Wattle
MS	Cassinia longifolia	Shiny Cassinia
MS	Lomatia myricoides	River Lomatia
MS	Indigofera australis	Austral Indigo
MS	Coprosma quadrifida	Prickly Currant-bush
LH	Senecio pinnatifolius	Variable Groundsel
LH	Senecio linearifolius	Fireweed Groundsel
LH	Senecio hispidulus	Rough Fireweed
MH	Stellaria pungens	Prickly Starwort
MH	Einadia hastata	Saloop
MH	Veronica calycina	Hairy Speedwell
SH	Dichondra repens	Kidney-weed
SH	Oxalis corniculata s.l.	Yellow Wood-sorrel
SH	Desmodium gunnii	Southern Tick-trefoil
LTG	Gahnia sieberiana	Red-fruit Saw-sedge
MTG	Lepidosperma laterale	Variable Sword-sedge
MTG	Notodanthonia longifolia	Long-leaf Wallaby-grass
MTG	Poa ensiformis	Sword Tussock-grass
MTG	Poa sieberiana var. sieberiana	Grey Tussock-grass
MNG	Microlaena stipoides var. stipoides	Weeping Grass
GF	Calochlaena dubia	Common Ground-fern
GF	Cheilanthes austrotenuifolia	Green Rock-fern
GF	Asplenium flabellifolium	Necklace Fern
EP	Amyema pendula	Drooping Mistletoe
EP	Amyema miquelii	Box Mistletoe
SC	Pandorea pandorana	Wonga Vine
SC	Glycine clandestina	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	Rubus fruticosus spp. agg.	Blackberry	high	high
LH	Verbascum virgatum	Twiggy Mullein	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Centaurium erythraea	Common Centaury	high	low
MH	Anagallis arvensis	Pimpernel	high	low

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A dense shrubland to 6 m tall growing on waterlogged substrates often with a peaty surface horizon. Emergent eucalypts may be occasionally present. The understorey is often species-poor and consists typically of sedges tolerant of seasonal waterlogging. Occurs along creeks and minor stream tributaries of the lowland plains.

## **Canopy Cover:**

%cover	Character Species	Common Name
60%	Melaleuca squarrosa	Scented Paperbark
	Leptospermnum continentale	Prickly Tea-tree

#### **Understorey:**

Life form	#Spp	%Cover	LF code
Medium Shrub	1	5%	MS
Small Shrub	1	1%	SS
Medium Herb	1	1%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	1	10%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	1	1%	MTG
Medium to Tiny Non-tufted Graminoid	2	20%	MNG
Ground Fern	1	5%	GF
Scrambler or Climber	1	10%	SC
Bryophytes/Lichens	na	20%	BL
Total understorey projective foliage cover		75%	

LF Code	Species typical of at least part of EVC range	<b>Common Name</b>
MS	Coprosma quadrifida	Prickly Currant-bush
MS	Ozothamnus ferrugineus	Tree Everlasting
SS	Amperea xiphoclada var. xiphoclada	Broom Spurge
MH	Gonocarpus tetragynus	Common Raspwort
MH	Selaginella uliginosa	Swamp Selaginella
LTG	Gahnia sieberiana	Red-fruit Saw-sedge
LNG	Lepidosperma longitudinale	Pithy Sword-sedge
MNG	Baumea tetragona	Square Twig-rush
MNG	Schoenus brevifolius	Zig-zag Bog-sedge
MNG	Empodisma minus	Spreading Rope-rush
GF	Pteridium esculentum	Austral Bracken
SC	Gleichenia microphylla	Scrambling Coral-fern
SC	Billardiera scandens	Common Apple-berry

# **Recruitment:**

Continuous

# **Organic Litter:**

40 % cover

#### Weediness:

There are no consistent weeds in this EVC.



# EVC 191: Riparian Scrub Highlands – Southern Fall bioregion

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Treeless or sparsely treed shrubland of rocky alpine peaks greater than 1000 m above sea level which are subject to low cloud cover and snowfall during winter. When present, trees are often stunted and low-growing and may form part of the dominant shrub layer.

#### **Life Forms:**

Life Folilis.			
Life form	#Spp	%Cover	LF code
Medium Shrub	8	40%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	5	5%	LH
Medium Herb	7	5%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	4	5%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	3	5%	GF
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	20%	BL

LF Code	Species typical of at least part of EVC range	Common Name
MS MS	Species typical of at least part of EVC range  Tasmannia lanceolata	Mountain Pepper
MS	Coprosma hirtella	Rough Coprosma
MS	Leucopogon gelidus	Drooping Beard-heath
MS	Olearia phlogopappa	Dusty Daisy-bush
SS	Olearia erubescens	Moth Daisy-bush
SS	Leucopogon hookeri	Mountain Beard-heath
SS	Rubus parvifolius	Small-leaf Bramble
PS	Platylobium formosum	Handsome Flat-pea
LH	Senecio linearifolius	Fireweed Groundsel
LH	Arthropodium milleflorum s.l.	Pale Vanilla-lily
LH	Derwentia derwentiana	Derwent Speedwell
LH	Senecio gunnii	Mountain Fireweed
MH	Stellaria pungens	Prickly Starwort
MH	<i>Craspedia glauca</i> spp. agg.	Common Billy-buttons
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH	Gonocarpus tetragynus	Common Raspwort
SH	Leptinella filicula	Mountain Cotula
SH	Chiloglottis gunnii s.l.	Common Bird-orchid
LTG	Deyeuxia frigida	Forest Bent-grass
LTG	Carex appressa	Tall Sedge
MTG	Dianella tasmanica	Tasman Flax-lily
MTG	Luzula meridionalis	Common Woodrush
MTG	Stylidium graminifolium s.l.	Grass Trigger-plant
MTG	Luzula meridionalis var. <i>flaccida</i>	Common Woodrush
MNG	Poa tenera	Slender Tussock-grass
GF	Polystichum proliferum	Mother Shield-fern
GF	Blechnum penna-marina ssp. alpina	Alpine Water-fern
GF	Asplenium flabellifolium	Necklace Fern
SC	Clematis aristata	Mountain Clematis



# EVC 192: Montane Rocky Shrubland Highlands – Southern Fall bioregion

#### **Recruitment:**

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

#### **Organic Litter:**

40 % cover

10 m/0.1 ha.

# Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Sonchus oleraceus	Common Sow-thistle	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Cerastium glomeratum s.l.	Common Mouse-ear Chickweed	high	low
MTG	Briza minor	Lesser Quaking-grass	high	high

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Tall eucalypt forest 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. Herbs may also be abundant where light penetrates the ground layer.

# Large trees:

SpeciesDBH(cm)#/haEucalyptus spp.90 cm20 / ha

## **Tree Canopy Cover:**

%cover	Character Species	Common Name
40%	Eucalyptus obliqua	Messmate Stringybark
	Eucalyptus croajingolensis	Gippsland Peppermint

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	4	30%	T
Medium Shrub	7	25%	MS
Small Shrub	2	1%	SS
Large Herb	2	1%	LH
Medium Herb	6	10%	MH
Medium to Small Tufted Graminoid	2	5%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	3	10%	GF
Tree Fern	2	5%	TRF
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	20%	BL

, - , - , ,		
<b>LF Code</b>	Species typical of at least part of EVC range	<b>Common Name</b> Silver Wattle
Ť	Olearia argophylla	Musk Daisy-bush
T	Lomatia fraseri	Tree Lomatia
MS	Olearia Iirata	Snowy Daisy-bush
MS	Coprosma quadrifida	Prickly Currant-bush
MS	Polyscias sambucifolia	Elderberry Panax
MS	Cassinia longifolia	•
SS	Tetratheca labillardierei	Shiny Cassinia Glandular Pink-bells
SS	Olearia erubescens	Moth Daisy-bush
LH	Senecio minimus	Shrubby Fireweed
LH	Senecio linearifolius	Fireweed Groundsel
MH	Viola hederacea sensu Entwisle (1996)	Ivy-leaf Violet
MH	Hydrocotyle hirta	Hairy Pennywort
MH	Drymophila cyanocarpa	Turquoise Berry
MH	Gonocarpus tetragynus	Common Raspwort
SH	Leptinella filicula	Mountain Cotula
LNG	Tetrarrhena juncea	Forest Wire-grass
MTG	Dianella tasmanica	Tasman Flax-lily
MNG	Poa tenera	Slender Tussock-grass
GF	Pteridium esculentum	Austral Bracken
GF	Polystichum proliferum	Mother Shield-fern
GF	Histiopteris incisa	Bat's Wing Fern
GF	Blechnum nudum	Fishbone Water-fern
TRF	Dicksonia antarctica	Soft Tree-fern
TRF	Cyathea australis	Rough Tree-fern
SC	Clematis aristata	Mountain Clematis



# EVC 201: Shrubby Wet Forest Highlands – Southern Fall bioregion

#### **Recruitment:**

Continuous

#### **Organic Litter:**

50 % cover

#### Logs:

30 m/0.1 ha.

# Weediness:

**LF Code Typical Weed Species Common Name** Invasive **Impact** LH Rorippa palustris Marsh Yellow-cress high low LNG Yorkshire Fog Holcus lanatus high low

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# EVC 206: Sub-alpine Grassland

#### **Description:**

Occurs primarily in areas at altitudes of around 1200 m above sea level. Structurally and floristically this EVC is dominated by grasses. Any shrubs present tend to be small and cryptic. The fertile and highly organic soils which are generally derived from granodiorite provide a suitable substrate for a lush cover of grasses and herbs, many specific to montane/sub-alpine environments. Snow persists for several months over winter. Species richness is low, indicative of the harsh environment.

## **Life Forms:**

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

<b>LF Code</b> MS	Species typical of at least part of EVC range Baeckea gunniana	<b>Common Name</b> Alpine Baeckea
SS	Grevillea australis	Alpine Grevillea
SS	Leucopogon hookeri	Mountain Beard-heath
SS	Hovea montana	Alpine Rusty-pods
PS	Pimelea alpina	Alpine Rice-flower
MH	Asperula gunnii	Mountain Woodruff
MH	Celmisia asteliifolia spp. agg.	Silver Daisy
MH	Leptorhynchos squamatus	Scaly Buttons
MH	Craspedia glauca spp. agg.	Common Billy-buttons
SH	Scleranthus biflorus s.l.	Twin-flower Knawel
SH	Gonocarpus micranthus ssp. micranthus	Creeping Raspwort
SH	Cotula alpina	Alpine Cotula
MTG	Carex breviculmis	Common Grass-sedge
MTG	Poa fawcettiae	Horny Snow-grass
MTG	Stylidium graminifolium s.l.	Grass Trigger-plant
MTG	Poa costiniana	Bog Snow-grass
MNG	Empodisma minus	Spreading Rope-rush

#### **Recruitment:**

Continuous

# **Organic Litter:**

10% Cover

#### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	Acetosella vulgaris	Sheep Sorrel	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
SH	<i>Trifolium repens</i> var. <i>repens</i>	White Clover	high	high



# EVC 206: Sub-alpine Grassland Highlands – Southern Fall bioregion

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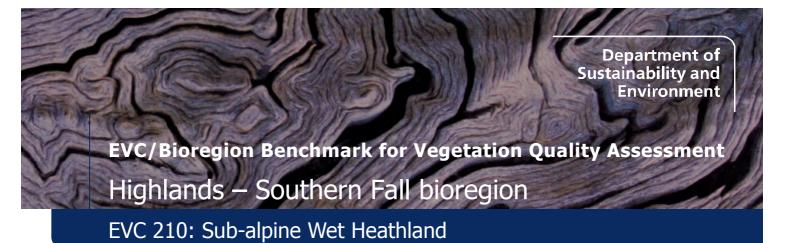
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Virtually treeless and characterised by a dense layer of low heathy shrubs to 2 m tall, with a number of sedges and rushes in the understorey. Occurs at elevations above 1000 m, in soaks or along small streams. Rainfall is generally greater than 1000 mm per annum, and during winter, this EVC can tolerate long periods of snow cover and low temperature. Deep, peaty, sodden soils are usually covered by a layer of sphagnum moss.

#### **Life Forms:**

**Description:** 

Life i Offis.			
Life form	#Spp	%Cover	LF code
Medium Shrub	4	15%	MS
Small Shrub	3	10%	SS
Prostrate Shrub	1	1%	PS
Large Herb	1	1%	LH
Medium Herb	8	15%	MH
Small or Prostrate Herb	4	10%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	4	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	15%	MNG
Ground Fern	1	1%	GF
Bryophytes/Lichens	na	40%	BL

LF Code MS MS	Species typical of at least part of EVC range Epacris paludosa Baeckea gunniana	<b>Common Name</b> Swamp Heath Alpine Baeckea
MS	Callistemon pityoides	Alpine Bottlebrush
MS	Baeckea utilis s.l.	Mountain Baeckea
SS	Richea continentis	Candle Heath
SS	Olearia algida	Mountain Daisy-bush
LH	Epilobium gunnianum	Gunn's Willow-herb
MH	<i>Astelia alpina</i> var. <i>novae-hollandiae</i>	Silver Astelia
MH	Gentianella diemensis s.l.	Mountain Gentian
MH	Asperula gunnii	Mountain Woodruff
MH	Celmisia asteliifolia spp. agg.	Silver Daisy
SH	Nertera granadensis	Matted Nertera
SH	Oreobolus distichus	Fan Tuft-rush
SH	Gonocarpus micranthus ssp. micranthus	Creeping Raspwort
LTG	Carex appressa	Tall Sedge
MTG	Stylidium graminifolium s.l.	Grass Trigger-plant
MTG	Carpha nivicola	Broad-leaf Flower-rush
MTG	Isolepis aucklandica	New Zealand Club-sedge
MTG	Poa hiemata	Soft Snow-grass
MNG	Empodisma minus	Spreading Rope-rush
GF	Lycopodium fastigiatum	Mountain Clubmoss
GF	Blechnum penna-marina ssp. alpina	Alpine Water-fern

## **Recruitment:**

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

#### **Organic Litter:**

10% cover

#### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	Hypochoeris radicata	Cat's Ear	hiah	low



# EVC 210: Sub-alpine Wet Heathland Highlands - Southern Fall bioregion

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Grows in gullies and on protected slopes on relatively skeletal but fertile sedimentary soils. Occurs at elevations of around 500 m above sea level and receives a low to moderate annual rainfall of approximately 750 mm. The overstorey includes a variety of Eucalypt species to 25 m tall. Silver Wattle is a common understorey tree. The dense mid stratum is comprised of medium to large shrubs characteristic of both drier and damper environments. The ground layer has a sparse cover of grasses and herbs, and commonly includes Austral Bracken.

Large trees:

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

**Tree Canopy Cover:** 

%coverCharacter SpeciesCommon Name40%Eucalyptus obliquaMessmate Stringybark

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



# EVC 316: Shrubby Damp Forest Highlands – Southern Fall bioregion

LF Code	Species typical of at least part of EVC range	<b>Common Name</b>
T	Pomaderris aspera	Hazel Pomaderris
T	Acacia dealbata	Silver Wattle
T	Exocarpos cupressiformis	Cherry Ballart
MS	Cassinia longifolia	Shiny Cassinia
MS	Pimelea axiflora	Bootlace Bush
MS	Coprosma quadrifida	Prickly Currant-bush
MS	Olearia lirata	Snowy Daisy-bush
SS	Olearia megalophylla	Large-leaf Daisy-bush
LH	Senecio linearifolius	Fireweed Groundsel
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH	Gonocarpus tetragynus	Common Raspwort
MH	Lagenophora stipitata	Common Bottle-daisy
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LTG	Gahnia sieberiana	Red-fruit Saw-sedge
MTG	Dianella tasmanica	Tasman Flax-lily
MTG	Poa australis spp. agg.	Tussock Grass
MTG	Dianella revoluta s.l.	Black-anther Flax-lily
MTG	Austrodanthonia pilosa	Velvet Wallaby-grass
MNG	Microlaena stipoides var. stipoides	Weeping Grass
GF	Pteridium esculentum	Austral Bracken
GF	Polystichum proliferum	Mother Shield-fern
GF	Blechnum wattsii	Hard Water-fern
SC	Clematis aristata	Mountain Clematis

#### **Recruitment:**

Continuous

# **Organic Litter:**

50 % cover

#### Logs:

30 m/0.1 ha.

### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Cerastium glomeratum s.l.	Common Mouse-ear Chickweed	high	low

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# EVC 319: Montane Herb-rich Woodland

# **Description:**

Occurs on southern and eastern-facing slopes or in protected gullies at elevations of around 1000 m above sea level, and receives a high rainfall of almost 1100 mm per annum. It is subject to cold air drainage, which influences the species mix. A mixture of eucalypts to 25 m tall forms the overstorey, with Silver Wattle abundant below. The shrub layer is neither diverse nor dense. The ground layer carries a diversity of herbs, graminoids and grasses. Climbers are commonly present.

### Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 15 / ha

#### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name40%Eucalyptus radiata s.l.Narrow-leaf PeppermintEucalyptus delegatensis ssp. delegatensisAlpine Ash

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	ΙΤ
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	6	15%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	5	10%	LH
Medium Herb	12	20%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	8	20%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	3	10%	GF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	20%	BL



# EVC 319: Montane Herb-rich Woodland Highlands – Southern Fall bioregion

LF Code	Species typical of at least part of EVC range	<b>Common Name</b>
T	Acacia dealbata	Silver Wattle
T	Notelaea ligustrina	Privet Mock-olive
MS	Coprosma hirtella	Rough Coprosma
MS	<i>Pultenaea juniperina</i> s.l.	Prickly Bush-pea
MS	Coprosma quadrifida	Prickly Currant-bush
MS	Exocarpos strictus	Pale-fruit Ballart
SS	Olearia erubescens	Moth Daisy-bush
SS	Leucopogon hookeri	Mountain Beard-heath
SS	Tetratheca ciliata	Pink-bells
PS	Platylobium formosum	Handsome Flat-pea
LH	Wahlenbergia stricta	Tall Bluebell
LH	Epilobium billardierianum	Variable Willow-herb
LH	Picris angustifolia	Native Picris
LH	Derwentia derwentiana	Derwent Speedwell
MH	Ranunculus plebeius s.l.	Forest/Hairy Buttercup
MH	Stellaria pungens	Prickly Starwort
MH	Asperula scoparia	Prickly Woodruff
MH	Acaena novae-zelandiae	Bidgee-widgee
SH	Hydrocotyle laxiflora	Stinking Pennywort
SH	Lobelia pedunculata s.l.	Matted Pratia
SH	Leptinella filicula	Mountain Cotula
SH	Oxalis exilis	Shady Wood-sorrel
LTG	Poa helmsii	Tall Mountain Tussock-grass
LTG	Lomandra longifolia	Spiny-headed Mat-rush
MTG	Poa sieberiana	Grey Tussock-grass
MTG	Carex breviculmis	Common Grass-sedge
MTG	Poa ensiformis	Sword Tussock-grass
MTG	Dianella tasmanica	Tasman Flax-lily
MNG	Echinopogon ovatus	Common Hedgehog-grass
GF	Pteridium esculentum	Austral Bracken
GF	Polystichum proliferum	Mother Shield-fern
GF	Asplenium flabellifolium	Necklace Fern
SC	Glycine clandestina	Twining Glycine
SC	Clematis aristata	Mountain Clematis

## **Recruitment:**

Continuous

# **Organic Litter:**

20 % cover

### Logs:

15 m/0.1 ha.

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	Hypochoeris radicata	Cat's Ear	high	low
SH	<i>Trifolium repens</i> var. <i>repens</i>	White Clover	high	low

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Occurs beside permanent streams, typically on narrow alluvial deposits. Woodland to 20 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
Eucalyptus spp.
80 cm
15 / ha

## **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name20%Eucalyptus camaldulensisRiver Red-gumEucalyptus viminalis ssp. viminalisManna GumEucalyptus tereticornisGippsland Red Gum

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	Т
Medium Shrub	4	10%	MS
Small Shrub	1	5%	SS
Large Herb	4	15%	LH
Medium Herb	5	10%	MH
Small or Prostrate Herb	1	5%	SH
Large Tufted Graminoid	3	15%	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
<u>T</u>	Acacia mearnsii	Black Wattle
Т	Melaleuca ericifolia	Swamp Paperbark
MS	Bursaria spinosa ssp. spinosa	Sweet Bursaria
MS	Hymenanthera dentata	Tree Violet
MS	Callistemon sieberi	River Bottlebrush
MS	Gynatrix pulchella	Hemp Bush
SS	Rubus parvifolius	Small-leaf Bramble
LH	Wahlenbergia gracilis s.s.	Sprawling Bluebell
LH	Senecio minimus	Shrubby Groundsel
LH	Myriophyllum crispatum	Upright Water-milfoil
MH	Rumex brownii	Slender Dock
MH	Oxalis perennans	Grassland Wood-sorrel
MH	Mentha australis	River Mint
MH	Acaena novae-zelandiae	Bidgee-widgee
SH	Dichondra repens	Kidneyweed
LTG	Poa labillardierei	Common Tussock-grass
LTG	Carex appressa	Tall Sedge
LNG	Phragmites australis	Common Reed
MTG	Lachnagrostis filiformis var. filiformis	Common Blown-grass
MTG	Triglochin procerum s.l.	Water-ribbons
MNG	Eleocharis acuta	Common Spike-sedge
SC	Calystegia sepium	Large Bindweed



# EVC 641: Riparian Woodland Highlands – Southern Fall bioregion

#### **Recruitment:**

Continuous

# **Organic Litter:**

30% cover

20m / 0.1 ha

### Weediness:

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

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

#### **Life Forms:**

Life form	#Spp	%Cover	LF code
Large Herb	2	10%	LH
Medium Herb	3	20%	MH
Small or Prostrate Herb	3	15%	SH
Large Non-tufted Graminoid	2	20%	LTG
Medium to Small Tufted Graminoid	2	10%	MTG
Medium to Tiny Non-tufted Graminoid	1	5%	MNG
Total understorey projective foliage cover		80%	

LF Code	Species typical of at least part of EVC range	<b>Common Name</b>
LH	Persicaria decipiens	Slender Knotweed
MH	Myriophyllum verrucosum	Red Water-milfoil
MH	Potamogeton pectinatus	Fennel Pondweed
SH	Lemna disperma	Common Duckweed
SH	Azolla filiculoides	Pacific Azolla
SH	Mimulus repens	Creeping Monkey-flower
SH	Wolffia australiana	Tiny Duckweed
LNG	Typha orientalis	Broad-leaf Cumbungi
LNG	Phragmites australis	Common Reed
MTG	Triglochin procerum s.l.	Water Ribbons
MNG	Bolboschoenus caldwellii	Salt Club-sedge

# Recruitment:

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

# **Organic Litter:**

10% Cover

# Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Aster subulatus	Aster-weed	high	low
MH	Cotula coronopifolia	Water Buttons	high	high



# EVC 653: Aquatic Herbland Highlands – Southern Fall bioregion

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

#### **Understorev:**

Jiluei Storey.			
Life form	#Spp	%Cover	LF code
Medium Shrub	5	40%	MS
Small Shrub	5	10%	SS
Prostrate Shrub	1	1%	PS
Medium Herb	4	10%	MH
Small or Prostrate Herb	3	10%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	4	5%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
Scrambler or Climber	3	5%	SC
Bryophytes/Lichens	na	20%	BL

MS MS MS SS SS SS SS MH MH MH LTG LTG LNG MTG	Species typical of at least part of EVC range Leptospermum continentale Allocasuarina paludosa Banksia marginata Hibbertia sericea s.l. Platylobium obtusangulum Pimelea humilis Dillwynia glaberrima Acrotriche serrulata Gonocarpus tetragynus Selaginella uliginosa Viola hederacea sensu Willis (1972) Deyeuxia quadriseta Xanthorrhoea minor ssp. lutea Lepidosperma longitudinale Patersonia fragilis	Common Name Prickly Tea-tree Scrub Sheoak Silver Banksia Silky Guinea-flower Common Flat-pea Common Rice-flower Smooth Parrot-pea Honey-pots Common Raspwort Swamp Selaginella Ivy-leaf Violet Reed Bent-grass Small Grass-tree Pithy Sword-sedge Short Purple-flag
MTG	Patersonia fragilis	Short Purple-flag
MTG MTG MNG MNG SC SC SC SC	Lepidosperma concavum Burchardia umbellata Hypolaena fastigiata Baumea juncea Cassytha pubescens s.s. Cassytha glabella Billardiera scandens	Sandhill Sword-sedge Milkmaids Tassel Rope-rush Bare Twig-sedge Downy Dodder-laurel Slender Dodder-laurel Common Apple-berry

#### **Recruitment:**

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

# **Organic Litter:**

20% cover

#### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	Hypochoeris radicata	Cat's Ear	hiah	low



# EVC 710: Damp Heathland Highlands – Southern Fall bioregion

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

### Large trees:

**Species DBH(cm)**#/ha
Eucalyptus spp.
60 cm
10 / ha

#### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name15%Eucalyptus cephalocarpa s.l.Mealy StringybarkEucalyptus radiata s.l.Narrow-leaf PeppermintEucalyptus ovataSwamp Gum

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	5	30%	MS
Small Shrub	4	5%	SS
Prostrate Shrub	2	1%	PS
Medium Herb	3	5%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	3	10%	MTG
Medium to Tiny Non-tufted Graminoid	1	5%	MNG
Ground Fern	1	5%	GF
Bryophytes/Lichens	na	20%	BL
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		85%	

LF Code	Species typical of at least part of EVC range	<b>Common Name</b>
MS	Leptospermum continentale	Prickly Tea-tree
MS	Epacris impressa	Common Heath
MS	Banksia marginata	Silver Banksia
MS	Kunzea ericoides	Burgan
SS	Hibbertia riparia	Erect Guinea-flower
SS	Hovea heterophylla	Common Hovea
PS	Acrotriche serrulata	Honey-pots
MH	Gonocarpus tetragynus	Common Raspwort
SH	Drosera whittakeri ssp. aberrans	Scented Sundew
LTG	Xanthorrhoea minor ssp. lutea	Small Grass-tree
MTG	Themeda triandra	Kangaroo Grass
MTG	Lepidosperma filiforme	Common Rapier-sedge
GF	Pteridium esculentum	Austral Bracken
SC	Cassytha glabella	Slender Dodder-laurel



# EVC 793: Damp Heathy Woodland Highlands - Southern Fall bioregion

#### **Recruitment:**

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

#### **Organic Litter:**

20 % cover

#### Logs:

10 m/0.1 ha.

# Weediness:

LF Code **Typical Weed Species Common Name** Invasive **Impact** Hypochoeris radicata high

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# EVC 851: Stream Bank Shrubland

#### **Description:**

Tall shrubland to 8 m tall above a ground layer of sedges and herbs. A sparse eucalypt overstorey to 15 m tall may sometimes be present. Occurs along 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.

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

**Species** DBH(cm) #/ha Eucalyptus spp. 70 cm 10 / ha

#### Tree Canopy Cover+:

%cover	Character Species	Common Name
10%	Eucalyptus camaldulensis	River Red-gum

#### **Understorey:**

LF Code

MNG

Life form	#Spp	%Cover	LF code
Immature Canopy Tree <sup>+</sup>	<b>-</b> PP	5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	4	20%	MS
Large Herb	3	5%	LH
Medium Herb	12	20%	MH
Small or Prostrate Herb	4	10%	SH
Large Tufted Graminoid	3	10%	LTG
Large Non-tufted Graminoid	3	10%	LNG
Medium to Small Tufted Graminoid	10	15%	MTG
Medium to Tiny Non-tufted Graminoid	5	10%	MNG
Scrambler or Climber	2	5%	SC

Species typical of at least part of EVC range

Leptospermum lanigerum	Woolly Tea-tree
Hymenanthera dentata s.l.	Tree Violet
Bursaria spinosa ssp. spinosa	Sweet Bursaria
Callistemon sieberi	River Bottlebrush
Persicaria decipiens	Slender Knotweed
Epilobium billardierianum	Variable Willow-herb
Acaena novae-zelandiae	Bidgee-widgee
Hydrocotyle verticillata	Shield Pennywort
Oxalis perennans	Grassland Wood-sorrel
Crassula helmsii	Swamp Crassula
	Hymenanthera dentata s.l. Bursaria spinosa ssp. spinosa Callistemon sieberi Persicaria decipiens Epilobium billardierianum Acaena novae-zelandiae Hydrocotyle verticillata Oxalis perennans

SH	Dichondra repens	Kidney-weed
SH	Apium prostratum ssp. prostratum	Sea Celery
SH	Hydrocotyle verticillata	Shield Pennywort
LTG	Poa labillardierei	Common Tussock-grass
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LNG	Phragmites australis	Common Reed
LNG	Schoenoplectus tabernaemontani	River Club-sedge
MTG	Triglochin procerum s.l.	Water Ribbons
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass



**Common Name** 

Black Wattle

Knobby Club-sedge

Large Bindweed

Blackwood

Ficinia nodosa

Calystegia sepium

Acacia mearnsii

Acacia melanoxylon

<sup>&</sup>lt;sup>+</sup> eucalypt woodland only components (ignore when assessing shrublands and standardise site condition score as required)

# EVC 851: Stream Bank Shrubland Highlands – Southern Fall bioregion

#### **Recruitment:**

Continuous

#### **Organic Litter:**

40 % cover

10 m/0.1 ha.

#### Weediness:

weediness:				
LF Code	Typical Weed Species	Common Name	Invasive	Impact
T	Crataegus monogyna	Hawthorn	high	high
MS	Rosa rubiginosa	Sweet Briar	high	high
MS	Ulex europaeus	Gorse	high	high
LH	Plantago lanceolata	Ribwort	high	low
LH	Rumex crispus	Curled Dock	high	low
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Rumex conglomeratus	Clustered Dock	high	low
LH	Sonchus asper s.l.	Rough Sow-thistle	high	low
LH	Helminthotheca echioides	Ox-tongue	high	low
LH	Aster subulatus	Aster-weed	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Trifolium angustifolium var. angustifolium	Narrow-leaf Clover	high	low
MH	Trifolium dubium	Suckling Clover	high	low
MH	Plantago major	Greater Plantain	high	low
SH	<i>Trifolium repens</i> var. <i>repens</i>	White Clover	high	low
LTG	Phalaris aquatica	Toowoomba Canary-grass	high	high
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	Bromus hordeaceus ssp. hordeaceus	Soft Brome	high	low
MTG	Nassella neesiana	Chilean Needle-grass	high	high
MTG	Bromus diandrus	Great Brome	high	low
MTG	Lolium perenne	Perennial Rye-grass	high	low
MTG	Romulea rosea	Onion Grass	high	low
MTG	Bromus catharticus	Prairie Grass	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Briza minor	Lesser Quaking-grass	high	low
MNG	Cynosurus echinatus	Rough Dog's-tail	high	low
MNG	Dactylis glomerata	Cocksfoot	high	high
MNG	Avena barbata	Bearded Oat	high	low
MNG	Paspalum distichum	Water Couch	high	high
SC	Galium aparine	Cleavers	high	low
SC	<i>Vicia sativa</i> ssp. <i>sativa</i>	Common Vetch	high	low

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Tall shrubland to 8 m tall above a ground layer of sedges and herbs. A sparse eucalypt overstorey to 15 m tall is present. Occurs along 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.

# Large Trees:

SpeciesDBH(cm)#/haEucalyptus spp.70 cm10 / ha

### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name10%Eucalyptus camaldulensisRiver Red-gum

Lifeform	#Spp	%Cover	LF Code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	Т
Medium Shrub	4	20%	MS
Large Herb	3	5%	LH
Medium Herb	12	20%	MH
Small or Prostrate Herb	4	10%	SH
Large Tufted Graminoid	3	10%	LTG
Large Non-Tufted Graminoid	3	10%	LNG
Medium to Small Tufted Graminoid	10	15%	MTG
Medium to Tiny Non-Tufted Graminoid	5	10%	MNG
Scrambler or Climber	2	5%	SC

LF Code	Species typical of at least part of EVC range	<b>Common Name</b>
Т	Acacia mearnsii	Black Wattle
Т	Acacia melanoxylon	Blackwood
MS	Bursaria spinosa subsp. spinosa	Sweet Bursaria
MS	Callistemon sieberi	River Bottlebrush
MS	Leptospermum lanigerum	Woolly Tea-tree
MS	Melicytus dentatus s.l.	Tree Violet
LH	Epilobium billardierianum	Variable Willow-herb
LH	Persicaria decipiens	Slender Knotweed
MH	Acaena novae-zelandiae	Bidgee-widgee
MH	Oxalis perennans	Grassland Wood-sorrel
SH	Apium prostratum subsp. prostratum	Sea Celery
SH	Crassula helmsii	Swamp Crassula
SH	Dichondra repens	Kidney-weed
SH	Hydrocotyle verticillata	Shield Pennywort
SH	Hydrocotyle verticillata	Shield Pennywort



# EVC 851\_61: Treed Stream Bank Shrubland

LF Code Species typical of at least part of EVC range		Common Name
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LTG	Poa labillardierei	Common Tussock-grass
LNG	Phragmites australis	Common Reed
LNG	Schoenoplectus tabernaemontani	River Club-sedge
MTG	Triglochin procera s.l.	Water Ribbons
MNG	Ficinia nodosa	Knobby Club-sedge
MNG	Microlaena stipoides var. stipoides	Weeping Grass
SC	Calystegia sepium subsp. roseata	Large Bindweed

#### Recruitment:

Continuous.

### **Organic Litter:**

40 % cover

### Logs:

10 m/0.1ha.

#### Weediness:

LF Code	Typical Weed Species	<b>Common Name</b>	Invasive	Impact
LTG	Phalaris aquatica	Toowoomba Canary-grass	high	high
MTG	Nassella neesiana	Chilean Needle-grass	high	high
MS	Ulex europaeus	Gorse	high	high
LNG	Holcus lanatus	Yorkshire Fog	high	high
MS	Rosa rubiginosa	Sweet Briar	high	high
MNG	Paspalum distichum	Water Couch	high	high
MNG	Dactylis glomerata	Cocksfoot	high	high
Т	Crataegus monogyna	Hawthorn	high	high
MTG	Bromus hordeaceus subsp. hordeaceus	Soft Brome	high	low
MTG	Bromus diandrus	Great Brome	high	low
LH	Rumex crispus	Curled Dock	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Trifolium angustifolium var. angustifolium	Narrow-leaf Clover	high	low
MH	Trifolium dubium	Suckling Clover	high	low
MH	Plantago major	Greater Plantain	high	low
SH	Trifolium repens var. repens	White Clover	high	low
LH	Aster subulatus	Aster-weed	high	low
MTG	Briza minor	Lesser Quaking-grass	high	low
LH	Plantago lanceolata	Ribwort	high	low
SC	Vicia sativa subsp. sativa	Common Vetch	high	low
MNG	Cynosurus echinatus	Rough Dog's-tail	high	low
MNG	Avena barbata	Bearded Oat	high	low
LH	Helminthotheca echioides	Ox-tongue	high	low
MTG	Lolium perenne	Perennial Rye-grass	high	low
MTG	Bromus catharticus	Prairie Grass	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
LH	Sonchus asper s.l.	Rough Sow-thistle	high	low
LH	Rumex conglomeratus	Clustered Dock	high	low
LH	Sonchus oleraceus	Common Sow-thistle	high	low
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
SC	Galium aparine	Cleavers	high	low
MTG	Romulea rosea	Onion Grass	high	low

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**Description:**Primarily occurs in gullies and along lower slopes close to minor drainage lines. Soils are reasonably fertile colluvial loams. Open eucalypt forest to 20 m tall with a range of medium shrubs conspicuous in the mid-stratum. The ground layer is dominated by a dense cover of grasses and a high diversity of tussock-forming graminoids and herbs.

### Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 20 / ha

EVC 877: Lowland Herb-rich Forest

#### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name30%Eucalyptus angophoroides<br/>Eucalyptus globoideaApple Box<br/>White Stringybark

Jiiuci Stoi Cy i			
Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	3	30%	MS
Small Shrub	2	5%	SS
Large Herb	2	5%	LH
Medium Herb	8	15%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	10%	LTG
Medium to Small Tufted Graminoid	3	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	3	20%	GF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL



# EVC 877: Lowland Herb-rich Forest Highlands – Southern Fall bioregion

LF Code	Species typical of at least part of EVC range	<b>Common Name</b>
T	Acacia mearnsii	Black Wattle
T	Olearia argophylla	Musk Daisy-bush
MS	Kunzea ericoides	Burgan
MS	Pimelea axiflora	Bootlace Bush
MS	Cassinia trinerva	Three-nerved Cassinia
MS	Callistemon pallidus	Lemon Bottlebrush
SS	Tetratheca pilosa	Hairy Pink-bells
SS	Hibbertia obtusifolia	Grey Guinea-flower
SS	Hibbertia calycina	Juniper Guinea-flower
PS	Acrotriche serrulata	Honey-pots
LH	Senecio tenuiflorus	Slender Fireweed
LH	Senecio linearifolius	Fireweed Groundsel
MH	Veronica plebeia	Trailing Speedwell
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH	Pterostylis concinna	Trim Greenhood
SH	Dichondra repens	Kidney-weed
SH	Oxalis exilis	Shady Wood-sorrel
SH	Opercularia varia	Variable Stinkweed
SH	Leptinella filicula	Mountain Cotula
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LTG	Gahnia sieberiana	Red-fruit Saw-sedge
MTG	Carex breviculmis	Common Grass-sedge
MTG	Lomandra filiformis ssp. filiformis	Wattle Mat-rush
MTG	Lepidosperma laterale	Variable Sword-sedge
MTG	Luzula meridionalis	Common Woodrush
MNG	Microlaena stipoides var. stipoides	Weeping Grass
MNG	Entolasia marginata	Bordered Panic
GF	Calochlaena dubia	Common Ground-fern
GF	Pteridium esculentum	Austral Bracken
GF	Cheilanthes austrotenuifolia	Green Rock-fern
SC	Clematis aristata	Mountain Clematis
SC	Comesperma volubile	Love Creeper
SC	Glycine clandestina	Twining Glycine
SC	Billardiera scandens	Common Apple-berry

### **Recruitment:**

Continuous

#### **Organic Litter:**

40 % cover

#### Logs:

20 m/0.1 ha.

# Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Cerastium glomeratum s.l.	Common Mouse-ear Chickweed	high	low

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# EVC 895: Escarpment Shrubland

#### **Description:**

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

#### Large trees+:

SpeciesDBH(cm)#/haEucalyptus spp.70 cm15 / ha

#### **Tree Canopy Cover:**

%cover Character Species

15% Acacia implexa

Allocasuarina verticillata Acacia mearnsii Bursaria spinosa Eucalyptus radiata Common Name Lightwood

Drooping Sheoak
Black Wattle
Sweet Bursaria
Narrow-leaf Peppermint

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	20%	BL
Soil Crust	na	10%	S/C

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



<sup>&</sup>lt;sup>+</sup> eucalypt woodland only components (ignore when assessing shrubland areas and standardise site condition score as required)

# EVC 895: Escarpment Shrubland - Highlands Southern Fall bioregion

#### Recruitment:

Continuous

### **Organic Litter:**

20 % cover

#### Logs:

15 m/0.1 ha+.

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

#### Weediness:

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

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Woodland or open forest to 20 m tall occurring along moderately steep gullies. Soils are mostly colluvial deposits of sands and silts. Characterised by a medium dense small tree and shrub layer above a grassy/sedgy understorey, often rich in herbs within the inter-tussock spaces.

### Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 10 / ha

#### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name20%Eucalyptus viminalisManna GumEucalyptus ovataSwamp Gum

### **Understorey:**

naciotore y i			
Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	4	15%	T
Medium Shrub	6	15%	MS
Small Shrub	1	1%	SS
Large Herb	2	1%	LH
Medium Herb	6	10%	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	7	15%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
Ground Fern	3	10%	GF
Scrambler or Climber	4	10%	SC
Bryophytes/Lichens	na	20%	BL

#### **Recruitment:**

Continuous

#### **Organic Litter:**

20 % cover

# Logs:

10 m/0.1 ha.



# EVC 902: Gully Woodland Highlands – Southern Fall bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	Acacia mearnsii	Black Wattle
T	Acacia melanoxylon	Blackwood
T	Bursaria spinosa	Sweet Bursaria
T	Allocasuarina littoralis	Black Sheoak
MS	Goodenia ovata	Hop Goodenia
MS	Coprosma quadrifida	Prickly Currant-bush
MS	Cassinia aculeata	Dogwood
SS	Rubus parvifolius	Small-leaf Bramble
LH	Senecio glomeratus	Annual Fireweed
LH	Senecio tenuiflorus	Slender Fireweed
MH	Acaena novae-zelandiae	Bidgee-widgee
MH	Gonocarpus tetragynus	Common Raspwort
MH	Hypericum gramineum	Small St John's-wort
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
SH	Dichondra repens	Kidneyweed
SH	Oxalis exilis	Shady Wood-sorrel
LTG	Poa labillardierei	Common Tussock-grass
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LNG	Gahnia radula	Thatch Saw-sedge
MTG	<i>Elymus scaber</i> var. <i>scaber</i>	Common Wheat Grass
MTG	Austrodanthonia racemosa var. racemosa	Stpied Wallaby-grass
MTG	Lepidosperma laterale var. laterale	Variable Sword-sedge
MTG	Poa morrisii	Soft Tussock-grass
MNG	Microlaena stipoides var. stipoides	Weeping Grass
MNG	Poa tenera	Slender Tussock-grass
GF	Pteridium esculentum	Austral Bracken
GF	Adiantum aethiopicum	Common Maidenhair
GF	Doodia australis	Common Rasp-fern
EP	Amyema pendula	Drooping Mistletoe
SC	Clematis aristata	Mountain Clematis
SC	Pandorea pandorana	Wonga Vine
SC	Clematis microphylla	Small-leaf Clematis
SC	Comesperma volubile	Love Creeper

#### Weediness:

weediness:	i			
LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Chrysanthemoides monilifera	Boneseed	high	high
MS	Rubus fruticosus spp. agg.	Blackberry	high	high
LH	Plantago lanceolata	Ribwort	high	low
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Cirsium vulgare	Spear Thistle	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Oxalis pes-caprae	Soursob	high	high
MH	Cerastium glomeratum s.l.	Common Mouse-ear Chickweed	high	low
MH	Anagallis arvensis	Scarlet Pimpernel	high	low
MH	Centaurium erythraea	Common Centaury	high	low
MH	Oxalis incarnata	Pale Wood-sorrel	high	high
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high
MTG	Romulea rosea	Onion Grass	high	low
MTG	Ehrharta longiflora	Annual Veldt-grass	high	low
MTG	Ehrharta erecta var. erecta	Panic Veldt-grass	high	high
MTG	Briza maxima	Large Quaking-grass	high	low
MNG	Dactylis glomerata	Cocksfoot	high	high
MNG	Allium triquetrum	Angled Onion	high	high
MNG	Agrostis capillaris s.l.	Brown-top Bent	high	high
SC	Asparagus asparagoides	Bridal Creeper	high	high

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# 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
Eucalyptus spp. 60 cm 15 / ha

#### **Tree Canopy Cover:**

%cover Character Species
15% Eucalyptus radiata s.l.

Eucalyptus camphora ssp. humeana

Eucalyptus ovata

Eucalyptus cephalocarpa s.s.

#### **Common Name**

Narrow-leaf Peppermint Mountain Swamp Gum Swamp Gum Mealy Stringybark

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	15%	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 Highlands – Southern Fall bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	Melaleuca ericifolia	Swamp Paperbark
MS	Leptospermum continentale	Prickly Tea-tree
MS	Ozothamnus ferrugineus	Tree Everlasting
MS	Epacris impressa	Common Heath
SS	Hibbertia riparia	Erect Guinea-flower
PS	Hibbertia procumbens	Spreading Guinea-flower
LH	Pterostylis longifolia s.l.	Tall Greenhood
LH	Stackhousia viminea	Slender Stackhousia
MH	Gonocarpus tetragynus	Common Raspwort
MH	Mazus pumilio	Swamp Mazus
MH	Gratiola peruviana	Austral Brooklime
MH	Centella cordifolia	Centella
MH	Pterostylis sanguinea	Banded Greenhood
SH	Opercularia varia	Variable Stinkweed
LTG	Gahnia sieberiana	Red-fruit Saw-sedge
LTG	Austrostipa pubinodis	Tall Spear-grass
LNG	Gahnia radula	Thatch Saw-sedge
LNG	Lepidosperma longitudinale	Pithy Sword-sedge
MTG	Schoenus apogon	Common Bog-sedge
MTG	Lepidosperma laterale	Variable Sword-sedge
MTG	Lomandra filiformis	Wattle Mat-rush
MNG	Poa tenera	Slender Tussock-grass
MNG	Microlaena stipoides var. stipoides	Weeping Grass
MNG	Lepyrodia muelleri	Common Scale-rush
MNG	Empodisma minus	Spreading Rope-rush
GF	Pteridium esculentum	Austral Bracken
GF	Lindsaea linearis	Screw Fern
SC	Cassytha glabella	Slender Dodder-laurel
SC	Thysanotus patersonii	Twining Fringe-lily

#### Recruitment:

Continuous

### **Organic Litter:**

20 % cover

## Logs:

15 m/0.1 ha.

#### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Rubus sp. aff. armeniacus	Blackberry	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high

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An open eucalypt forest to woodland to 20 m tall confined to narrow bands along low gradient gullies on minor streams within foothills. Often associated with granite soils. The understorey is dominated by shrubs, sedges and ferns and lacks the diversity of herbs and grasses associated with drainage lines on more fertile soils.

### Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 20 / ha

#### **Tree Canopy Cover:**

%coverCharacter SpeciesCommon Name30%Eucalyptus radiata s.l.Narrow-leaf PeppermintEucalyptus ovataSwamp GumEucalyptus viminalis ssp. viminalisManna Gum

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

LF Code T T T	Species typical of at least part of EVC range Acacia melanoxylon Melaleuca squarrosa Melaleuca ericifolia	Common Name Blackwood Scented Paperbark Swamp Paperbark
MS	Leptospermum continentale	Prickly Tea-tree
MS	Ozothamnus ferrugineus	Tree Everlasting
MS	Coprosma quadrifida	Prickly Currant-bush
MS	Goodenia ovata	Hop Goodenia
MH	Veronica plebeia	Trailing Speedwell
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
SH	Oxalis corniculata s.l.	Yellow Wood-sorrel
SH	Dichondra repens	Kidney-weed
SH	Desmodium gunnii	Southern Tick-trefoil
LTG	Carex appressa	Tall Sedge
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LTG	Poa labillardierei	Common Tussock Grass
LTG	Cyperus lucidus	Leafy Flat-sedge
LNG	Phragmites australis	Common Reed
LNG	Gahnia radula	Thatch Saw-sedge
MTG	Poa morrisii	Soft Tussock-grass
MTG	Lomandra filiformis	Wattle Mat-rush
GF	Polystichum proliferum	Mother Shield-fern
GF	Calochlaena dubia	Common Ground-fern
SC	Billardiera scandens	Common Apple-berry



# EVC 938: Shrubby Gully Forest Highlands – Southern Fall bioregion

#### **Recruitment:**

Continuous

#### **Organic Litter:**

20 % cover

15 m/0.1 ha.

# Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Rubus fruticosus spp. agg.	Blackberry	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high

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