Northern Inland Slopes bioregion

### EVC 7: Clay Heathland

### Description:

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

<sup>+</sup> woodland <u>only</u> components (ignore when assessing treeless areas and standardise final score as appropriate)

Large trees Species Eucalyptus		<b>DBH(cm)</b> 40 cm	<b>#/ha</b> 10 / ha		
Tree Canop	v Cover <sup>+</sup> :				
<b>%cover</b> 10%	Character Species Eucalyptus dives Eucalyptus macrorhyncha Eucalyptus mannifera				55
Understore	v:				
Life form Medium Shr Small Shrub		# <b>Sp</b> 9 6	3	<b>%Cover</b> 80%	<b>LF code</b> MS SS
Prostrate Sh	rub	3		5%	PS
Medium Her		8		0%	MH
Large Tufter		4		10% 5%	LTG LNG
•	ufted Graminoid Small Tufted Graminoid	7	-	0%	MTG
	Tiny Non-tufted Graminoid	2		5%	MNG
Bryophytes/	5	na		0%	BL
Soil Crust		na	1	0%	S/C
LF Code	Species typical of at leas	t part of EVC ra	ange	Com	nmon Name
MS	Epacris impressa				mon Heath
MS	Leptospermum continentale				ly Tea-tree
MS	Banksia marginata				Banksia
MS	Cassinia longifolia			Shiny	/ Cassinia
SS	Kunzea parvifolia			Viole	t Kunzea
SS	Pimelea humilis			Comr	mon Rice-flower
SS	Gompholobium huegelii			Comr	mon Wedge-pea
SS	Dillwynia phyllicoides			Smal	I-leaf Parrot-pea
PS	Acrotriche serrulata				ey-pots
PS	Bossiaea prostrata				ping Bossiaea
PS	Pultenaea procumbens				hy Bush-pea
PS	Boronia nana				f Boronia
MH	Gonocarpus tetragynus				mon Raspwort
MH	Hypericum gramineum	<i></i>			I St John's Wort
MH	Viola betonicifolia ssp. betonicif	olia			/y Violet
LTG	Deyeuxia quadriseta				Bent-grass
LTG	Xanthorrhoea minor ssp. lutea				l Grass-tree
LNG MTG	Gahnia radula Schoonus anogon				ch Saw-sedge mon Bog-sedge
MTG	Schoenus apogon Poa sieberiana				Tussock-grass
MTG	Lepidosperma laterale				ble Sword-sedge
MTG	Themeda triandra				aroo Grass
MNG	Microlaena stipoides var. stipoid	des		0	bing Grass
MNG	Echinopogon ovatus				non Hedgehog-grass
	, ,				5 . 5 5



### EVC 7: Clay Heathland - Northern Inland Slopes bioregion

### **Recruitment:**

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

#### **Organic Litter:**

20% Cover

### Weediness:

LF Code MH

Typical Weed Species Hypochoeris radicata

Common Name Cat's Ear

Invasive high

Impact low

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## EVC/Bioregion Benchmark for Vegetation Quality Assessment Northern Inland Slopes Bioregion

### EVC 7\_61: Treed Clay Heathland

### **Description:**

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

Large Trees:			_	
Species		DBH(cm)	#/ha	
Eucalyptus sp	op.	40 cm	10 / ha	
Tree Canopy	v Cover:			
%cover	Character Species		Common	Name
10%	Eucalyptus dives		Broad-leave	d Peppermint
	Eucalyptus macrorhyncha		Red Stringy	bark
	Eucalyptus mannifera subsp. ma	nnifera	Brittle Gum	
Understorey	:			
Lifeform		#Spp	%Cover	LF Code
Medium Shrul	b	9	30%	MS
Small Shrub		6	10%	SS
Prostrate Shr	du	3	5%	PS
Medium Herb		8	10%	MH
Large Tufted	Graminoid	4	10%	LTG
Large Non-Tu	fted Graminoid	1	5%	LNG
Medium to Sn	nall Tufted Graminoid	7	10%	MTG
Medium to Tir	ny Non-Tufted Graminoid	2	5%	MNG
Bryophytes/Li	chens		10%	BL
Soil Crust			10%	S/C
LF Code	Species typical of a	t least part of EVC	range (	Common Name
MS	Banksia marginata	-	S	Silver Banksia
MS	Cassinia longifolia		S	Shiny Cassinia
MS	Epacris impressa		C	Common Heath
MS	Leptospermum continenta	le	F	rickly Tea-tree
SS	Dillwynia phylicoides		S	Small-leaf Parrot-pea
SS	Gompholobium huegelii		C	Common Wedge-pea
SS	Kunzea parvifolia		١	/iolet Kunzea
SS	Pimelea humilis		C	Common Rice-flower
PS	Acrotriche serrulata		F	loney-pots
PS	Boronia nana		Γ	Warf Boronia
PS	Bossiaea prostrata		C	Creeping Bossiaea
PS	Pultenaea procumbens		F	leathy Bush-pea
MH	Gonocarpus tetragynus		C	Common Raspwort
MH	Hypericum gramineum		5	Small St John's Wort
N 41 1	All a la la constation la la		_	No. a como A. C. a La C



Showy Violet

Viola betonicifolia

MH

### EVC 7\_61: Treed Clay Heathland

LF Code	Species typical of at least part of EVC range	Common Name
LTG	Deyeuxia quadriseta	Reed Bent-grass
LTG	Xanthorrhoea minor subsp. lutea	Small Grass-tree
LNG	Gahnia radula	Thatch Saw-sedge
MTG	Lepidosperma laterale	Variable Sword-sedge
MTG	Poa sieberiana	Grey Tussock-grass
MTG	Schoenus apogon	Common Bog-sedge
MTG	Themeda triandra	Kangaroo Grass
MNG	Echinopogon ovatus	Common Hedgehog-grass
MNG	Microlaena stipoides var. stipoides	Weeping Grass

### **Recruitment:**

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

### **Organic Litter:**

20 % cover

### Logs:

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

### Weediness:

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

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Northern Inland Slopes bioregion

### EVC 18: Riparian Forest

### **Description:**

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

Large trees: Species Eucalyptus spp.		<b>DBH(cm)</b> 80 cm	<b>#/ha</b> 20 / ha		
Tree Canopy Co %cover 40%	<b>Over:</b> <b>Character Species</b> <i>Eucalyptus radiata</i> ssp. <i>radiata</i> <i>Eucalyptus viminalis</i> <i>Eucalyptus globulus</i> ssp. <i>bicost</i>			<b>Commo</b> Narrow-le Manna Gu Eurabbie	af Peppermint
Medium Shrub Small Shrub Prostrate Shrub Large Herb Medium Herb Small or Prostra Large Tufted Gru Large Non-tufted Medium to Smal	e or Large Shrub te Herb aminoid d Graminoid I Tufted Graminoid Non-tufted Graminoid mber	3 5 1 1 2 1 2 4 2 4 2 4 2 4 1 2	1 1 4	<b>%Cover</b> 5% 15% 20% 1% 1% 5% 20% 5% 15% 5% 10% 5% 15% 5% 5% 20%	LF code IT T MS SS PS LH MH SH LTG LNG MTG MNG GF TRF SC BL



### EVC 18: Riparian Forest - Northern Inland Slopes bioregion

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

#### **Recruitment:**

Continuous

#### **Organic Litter:**

50 % cover

#### Logs:

30 m/0.1 ha.

#### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Rubus fruticosus spp. agg.	Blackberry	high	high
LH	<i>Sonchus asper</i> s.l.	Rough Sow-thistle	high	low
LH	Cirsium vulgare	Spear Thistle	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Prunella vulgaris	Self-heal	high	high
MH	Centaurium erythraea	Common Centaury	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high

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Northern Inland Slopes bioregion

### EVC 19: Riparian Shrubland

### **Description:**

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. Emergent 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 20%	<b>Character Species</b> <i>Acacia dealbata</i>		<b>Common N</b> Silver Wattle	ame
	raminoid	<b>#Spp</b> 4 1 5 8 3 3 2 8 4 1	<b>%Cover</b> 5% 1% 5% 10% 5% 5% 1% 10% 5% 10%	LF code MS SS LH MH SH LTG LNG MTG MNG GF
Bryophytes/Lich	ens torey projective foliage cover	na	20% 70%	BL
MS MS SS LH LH LH MH MH SH SH LTG LTG LTG LTG LTG MTG MTG	Species typical of at least part of Bossiaea foliosa Callistemon sieberi Acacia verniciflua Rubus parvifolius Senecio quadridentatus Persicaria hydropiper Persicaria decipiens Alternanthera denticulata s.l. Centipeda cunninghamii Euchiton involucratus s.l. Hypericum japonicum Crassula helmsii Juncus usitatus Carex polyantha Carex appressa Phragmites australis Carex gaudichaudiana Juncus pauciflorus Lipocarpha microcephala	EVC range	Leafy River Varni Small Cotto Wate Slenc Lesse Comr Matte Swan Billab River Tall S Comr Fen S Loose	non Reed

Common Tussock-grass

Swamp Millet

Couch

Weeping Grass

Austral Bracken

Grey Mistletoe

Poa labillardierei

Isachne globosa

Cynodon dactylon

Pteridium esculentum

Microlaena stipoides var. stipoides

Amyema quandang var. quandang

MTG

MNG

MNG

MNG

GF EP

#### **Recruitment:**

Continuous

### **Organic Litter:**

10% Cover

### Logs:

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

Weediness:	1			
LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Ulex europaeus	Gorse	low	high
MS	Rubus fruticosus spp. agg.	Blackberry	high	high
LH	Hypericum perforatum	St John's Wort	high	high
LH	Verbena bonariensis s.l.	Purple-top Verbena	high	high
LH	Carduus pycnocephalus	Slender Thistle	high	high
LH	Verbascum spp.	Mullein	high	high
LH	Opuntia spp.	Prickly Pear	high	high
MH	Acetosella vulgaris	Sheep Sorrel	high	low
MH	Galium divaricatum	Slender Bedstraw	high	low
MH	Hypochoeris glabra	Smooth Cat's-ear	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Stellaria media	Chickweed	high	low
MH	Ranunculus repens	Creeping Buttercup	high	high
MH	Myosotis discolor	Yellow-and-blue Forget-me-not	high	high
MH	Anagallis arvensis	Pimpernel	high	low
MH	Trifolium spp.	Clover	high	low
MH	Centaurium spp.	Centaury	low	low
SH	Ludwigia palustris	Marsh Ludwigia	high	high
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Agrostis capillaris s.l.	Brown-top Bent	high	high
MTG	Bromus diandrus	Great Brome	high	low
MTG	Pentaschistis airoides ssp. airoides	False Hair-grass	high	low
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	Cyperus eragrostis	Drain Flat-sedge	high	high
MNG	Paspalum distichum	Water Couch	high	high
MNG	Bromus rubens	Red Brome	high	low
MNG	Aira elegantissima	Delicate Hair-grass	high	low
SC	Asparagus asparagoides	Bridal Creeper	high	high

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Northern Inland Slopes bioregion

### EVC 20: Heathy Dry Forest

### **Description:**

Open eucalypt forest to 20 m tall. 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 understorey is dominated by a low, sparse to dense layer of ericoid-leaved shrubs including heaths and peas. Graminoids and grasses are frequently present in the ground layer, but do not provide much cover.

Large trees: Species Eucalyptus spp		<b>DBH(cm)</b> 60 cm	<b>#/ha</b> 20 / ha	
Tree Canopy C %cover 30%	<b>Cover:</b> <b>Character Species</b> <i>Eucalyptus macrorhyncha</i> <i>Eucalyptus polyanthemos</i> <i>Eucalyptus goniocalyx s.s.</i>		Red	<b>mmon Name</b> Stringybark Box dy
Medium Shrub Small Shrub Prostrate Shrub Large Herb Medium Herb Small or Prostra Large Tufted G Medium to Sma	ate Herb raminoid Jul Tufted Graminoid v Non-tufted Graminoid	#Spp 1 6 1 3 7 2 1 7 1 7 1 na na	<b>b %</b> Co 5% 5% 20% 20% 1% 5% 15% 1% 1% 25% 1% 10% 10%	ver LF code IT T MS SS PS LH MH SH LTG MTG MNG BL S/C
LF Code T MS MS SS SS SS SS SS SS PS PS LH LH LH LH LH LH SH MTG MTG MTG MTG MTG MTG MTG SC SC	Species typical of at least Exocarpos cupressiformis Grevillea alpina Brachyloma daphnoides Persoonia rigida Hibbertia obtusifolia Melichrus urceolatus Hovea heterophylla Dillwynia phylicoides Platylobium formosum Acrotriche serrulata Senecio tenuiflorus Xerochrysum viscosum Wahlenbergia stricta Gonocarpus tetragynus Helichrysum scorpioides Microseris scapigera spp. agg. Hydrocotyle laxiflora Joycea pallida Dianella revoluta s.l. Lomandra filiformis Poa sieberiana Microlaena stipoides var. stipoida Thysanotus patersonii Hardenbergia violacea		nge	<b>Common Name</b> Cherry Ballart Cat's Claw Grevillea Daphne Heath Hairy Geebung Grey Guinea-flower Urn Heath Common Hovea Small-leaf Parrot-pea Handsome Flat-pea Honey-pots Slender Fireweed Shiny Everlasting Tall Bluebell Common Raspwort Button Everlasting Yam Daisy Stinking Pennywort Silvertop Wallaby-grass Black-anther Flax-lily Wattle Mat-rush Grey Tussock-grass Weeping Grass Twining Fringe-lily Purple Coral-pea



#### **Recruitment:**

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

#### **Organic Litter:**

20 % cover

#### Logs:

MH MH MH MTG MTG MNG

20 m/0.1 ha.

#### Weediness: LF Co

ode	Typical Weed Species
	Hypochoeris radicata
	Hypochoeris glabra
	Anagallis arvensis
	Briza maxima
	Vulpia bromoides
	Aira elegantissima

Common Name
Cat's Ear
Smooth Cat's-ear
Pimpernel
Large Quaking-grass
Squirrel-tail Fescue
Delicate Hair-grass

Invasive	Impact
high	low

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Northern Inland Slopes bioregion

### EVC 21: Shrubby Dry Forest

### **Description:**

Occurs on a range of geologies on exposed aspects such as ridge-lines and medium to steep upper slopes, often in high rainfall areas and on shallow infertile soils. The overstorey is an 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 Eucalyptus spp.		<b>DBH(cm)</b> 70 cm	<b>#/ha</b> 20 / ha		
Tree Canopy Co %cover 30%	over: Character Species Eucalyptus dives Eucalyptus mannifera ssp. mai	nifera		<b>Commo</b> Broad-leav Brittle Gun	ved Peppermint
Understorey:					
Life form		#Sp	p q	%Cover	LF code
Immature Cano	py Tree		5	5%	IT
Understorey Tre	e or Large Shrub	2	1	.0%	Т
Medium Shrub		8	1	.5%	MS
Small Shrub		3	-	5%	SS
Prostrate Shrub		2	-	5%	PS
Large Herb		2		.%	LH
Medium Herb		7	-	5%	MH
Small or Prostra		2		.%	SH
Large Tufted Gr		1	-	.%	LTG
Large Non-tufte		1		.%	LNG
	I Tufted Graminoid	6		.0%	MTG
Ground Fern		2	-	5%	GF
Scrambler or Cli		2	-	.%	SC
Bryophytes/Lich	ens	na	_	.0%	BL
Soil Crust		na	_	.0%	S/C
Total unders	torey projective foliage c	over	e	55%	



### EVC 21: Shrubby Dry Forest – Northern Inland Slopes bioregion

LF Code	Species typical of at least part of EVC range	Common Name
Т	Acacia dealbata	Silver Wattle
Т	Exocarpos cupressiformis	Cherry Ballart
MS	Cassinia aculeata	Common Cassinia
MS	Daviesia latifolia	Hop Bitter-pea
MS	Daviesia ulicifolia	Gorse Bitter-pea
MS	<i>Pultenaea juniperina</i> s.l.	Prickly Bush-pea
SS	Hibbertia obtusifolia	Grey Guinea-flower
SS	Tetratheca ciliata	Pink-bells
SS	Hovea heterophylla	Common Hovea
SS	Olearia erubescens	Moth Daisy-bush
PS	Persoonia chamaepeuce	Dwarf Geebung
PS	Acrotriche serrulata	Honey-pots
LH	Senecio tenuiflorus	Slender Fireweed
LH	Senecio linearifolius	Fireweed Groundsel
MH	Gonocarpus tetragynus	Common Raspwort
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH	Stellaria pungens	Prickly Starwort
MH	Asperula scoparia	Prickly Woodruff
SH	Hydrocotyle laxiflora	Stinking Pennywort
LTG	Lomandra longifolia	Spiny-headed Mat-rush
MTG	Joycea pallida	Silvertop Wallaby-grass
MTG	Poa sieberiana	Grey Tussock-grass
MTG	Dianella tasmanica	Tasman Flax-lily
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	Pteridium esculentum	Austral Bracken
SC	Hardenbergia violacea	Purple Coral-pea
SC	Clematis aristata	Mountain Clematis
Recruitment	:	
	. Desirable period between disturbances is 20 years.	
Organic Litte		
20 % cover	51.	

#### Logs:

20 m/0.1 ha.

### Weediness:

LF Code MH

Typical Weed Species Hypochoeris radicata

**Common Name** Cat's Ear

Invasive high

Impact low

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Northern Inland Slopes bioregion

### EVC 22: Grassy Dry Forest

### **Description:**

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

Large trees: Species Eucalyptus spp. Callitris spp.		<b>DBH(cm)</b> 60 cm 40 cm	<b>#/ha</b> 20 / ha		
Tree Canopy C %cover 30%	over: Character Species Eucalyptus goniocalyx s.l. Eucalyptus macrorhyncha Eucalyptus polyanthemos Eucalyptus blakelyi Callitris endlicheri			<b>Commo</b> Bundy Red String Red Box Blakely's F Black Cypt	gybark Red Gum
Medium Shrub Small Shrub Prostrate Shrub Large Herb Medium Herb Small or Prostra Large Tufted Gr Medium to Smal	e or Large Shrub te Herb aminoid II Tufted Graminoid Non-tufted Graminoid mber	# 2 5 4 1 3 5 2 1 8 1 2 1 na na		<b>%Cover</b> 5% 5% 10% 5% 1% 1% 15% 1% 25% 1% 1% 1% 1% 1% 1% 1%	LF code IT T MS SS PS LH MH SH LTG MNG GF SC BL S/C



### EVC 22: Grassy Dry Forest - Northern Inland Slopes bioregion

LF Code	Species typical of at least part of EVC range	Common Name
Т	Exocarpos cupressiformis	Cherry Ballart
Т	Acacia implexa	Lightwood
MS	Acacia dealbata	Silver Wattle
MS	Acacia verniciflua	Varnish Wattle
MS	Cassinia longifolia	Shiny Cassinia
MS	Cassinia aculeata	Common Cassinia
SS	Hibbertia obtusifolia	Grey Guinea-flower
SS	Hovea heterophylla	Common Hovea
SS	Hibbertia riparia	Erect Guinea-flower
PS	Acrotriche serrulata	Honey-pots
LH	Senecio quadridentatus	Cotton Fireweed
MH	Gonocarpus tetragynus	Common Raspwort
MH	Hypericum gramineum	Small St John's Wort
MH	Geranium solanderi s.l.	Austral Cranesbill
MH	<i>Euchiton collinus</i> s.l.	Clustered/Creeping Cudweed
SH	Hydrocotyle laxiflora	Stinking Pennywort
MTG	Joycea pallida	Silvertop Wallaby-grass
MTG	Poa sieberiana	Grey Tussock-grass
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Austrostipa scabra	Rough Spear-grass
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MTG	Themeda triandra	Kangaroo Grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	Cheilanthes austrotenuifolia	Green Rock-fern
SC	Hardenbergia violacea	Purple Coral-pea
Recruitment	t:	

#### uitment:

Continuous

**Organic Litter:** 

20 % cover

#### Logs:

20 m/0.1 ha.

#### Weediness:

weedness:				
LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Hypericum perforatum	St John's Wort	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Anagallis arvensis	Pimpernel	high	low
MH	<i>Trifolium arvense</i> var. <i>arvense</i>	Hare's-foot Clover	high	low
MH	Centaurium erythraea	Common Centaury	high	low
MH	Trifolium campestre var. campestre	Hop Clover	high	low
MH	Cerastium glomeratum s.l.	Common Mouse-ear Chickweed	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Briza minor	Lesser Quaking-grass	high	low
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high
MNG	Aira elegantissima	Delicate Hair-grass	high	low

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Northern Inland Slopes bioregion

### EVC 23: Herb-rich Foothill Forest

### **Description:**

A medium to tall open forest to 30 m tall with a small tree layer over a sparse to dense shrub layer. 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. The understorey contains a high cover and diversity of herbs and grasses in the ground layer, which characterises this EVC.

Large trees: Species Eucalyptus spp.		<b>DBH(cm)</b> 70 cm	<b>#/ha</b> 20 / ha					
Tree Canopy Co	over:							
%cover       Character Species         40%       Eucalyptus dives         Eucalyptus dalrympleana ssp. dalrym         Eucalyptus radiata s.l.         Eucalyptus obliqua         Eucalyptus globulus ssp. bicostata         Eucalyptus mannifera ssp. mannifera         Eucalyptus rubida		tata		Broad Moun Narro	Gum			
Understorey:	Understorey:							
Life form		#Sp	p (	%Cover	LF code			
Immature Canop	by Tree		!	5%	IT			
	e or Large Shrub	2		10%	Т			
Medium Shrub		3		10%	MS			
Small Shrub		3	-	5%	SS			
Prostrate Shrub		2 3	-	5%	PS			
Large Herb Medium Herb		3 13	-	5% 25%	LH MH			
Small or Prostrat	te Herb	4		23% 5%	SH			
Large Tufted Graminoid		2	-	5%	LTG			
Medium to Small Tufted Graminoid		6	-	20%	MTG			
Medium to Tiny Non-tufted Graminoid		1		1%	MNG			
Ground Fern		1	ļ	5%	GF			
Scrambler or Clir	mber	2	:	1%	SC			
Bryophytes/Liche	ens	na		20%	BL			



### EVC 23: Herb-rich Foothill Forest - Northern Inland Slopes bioregion

LF Code	Species typical of at least part of EVC range Acacia dealbata	<b>Common Name</b> Silver Wattle
MS	Acacia dealbata Daviesia latifolia	Hop Bitter-pea
MS	Pimelea linifolia ssp. linifolia	Slender Rice-flower
SS	Hibbertia obtusifolia	Grey Guinea-flower
SS	Hovea heterophylla	Common Hovea
SS	Tetratheca ciliata	Pink-bells
SS	Olearia erubescens	Moth Daisy-bush
PS	Platylobium formosum	Handsome Flat-pea
PS	Acrotriche serrulata	Honey-pots
PS	Acrotriche prostrata	Trailing Ground-berry
LH	Wahlenbergia stricta	Tall Bluebell
LH	Senecio tenuiflorus	Slender Fireweed
LH	Pterostylis longifolia s.l.	Tall Greenhood
MH	Poranthera microphylla	Small Poranthera
MH	Gonocarpus tetragynus	Common Raspwort
MH	Drosera peltata ssp. auriculata	Tall Sundew
MH	Stackhousia monogyna	Creamy Stackhousia
SH	Hydrocotyle laxiflora	Stinking Pennywort
SH	Dichondra repens	Kidney-weed
SH	Cymbonotus preissianus	Austral Bear's-ear
LTG	<i>Lomandra longifolia</i> ssp. <i>exilis</i>	Cluster-headed Mat-rush
MTG	<i>Luzula meridionalis</i> var. <i>flaccida</i>	Common Woodrush
MTG	<i>Poa sieberiana</i> var. <i>sieberiana</i>	Grey Tussock-grass
MTG	Lomandra multiflora ssp. multiflora	Many-flowered Mat-rush
MTG	<i>Stylidium graminifolium</i> s.l.	Grass Trigger-plant
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	Pteridium esculentum	Austral Bracken
SC	Glycine clandestina	Twining Glycine
SC	Clematis aristata	Mountain Clematis

### **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	Centaurium erythraea	Common Centaury	high	low
MH	Anagallis arvensis	Pimpernel	high	low
MH	<i>Cerastium glomeratum</i> s.l.	Common Mouse-ear Chickweed	high	low
MTG	Briza minor	Lesser Quaking-grass	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MNG	Aira elegantissima	Delicate Hair-grass	high	low

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Northern Inland Slopes bioregion

### EVC 28: Rocky Outcrop Shrubland

### **Description:**

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

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

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



### **Recruitment:**

Continuous

#### **Organic Litter:** 40 % cover

#### Weediness:

LF Code MH MNG

**Typical Weed Species** Hypochoeris radicata Vulpia myuros

**Common Name** Cat's Ear Rat's-tail Fescue

Invasive high high

Impact low low

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Northern Inland Slopes bioregion

### EVC 29: Damp Forest

### **Description:**

Grows on a wide range of geologies on well-developed generally colluvial soils on a variety of aspects, from sea level to montane elevations. Typically in gullies and on protected slopes. 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 Eucalyptus spp.		<b>DBH(cm)</b> 90 cm	<b>#/ha</b> 20 / ha		
Tree Canopy Co	over:				
<b>%cover</b> 25%	6 Character Species		Mount	<b>mon Name</b> tain Gum nate Stringybark a Gum	
Understorey:					
Life form		#Sp	op q	%Cover	LF code
Immature Canor	by Tree	-	5	5%	IT
Understorey Tre	e or Large Shrub	4	1	.0%	Т
Medium Shrub		3	5	%	MS
Small Shrub		1	1	%	SS
Large Herb		2	5	%	LH
Medium Herb		8	1	.5%	MH
Small or Prostrat	te Herb	2	5	%	SH
Large Tufted Gra		3	1	.%	LTG
Medium to Smal	l Tufted Graminoid	2	1	.%	MTG
	Non-tufted Graminoid	1	1	.%	MNG
Ground Fern		7		.0%	GF
Tree Fern		2	-	0%	TRF
Scrambler or Cli	mber	3	5	%	SC
Bryophytes/Lich	ens	na	2	.0%	BL



### EVC 29: Damp Forest - Northern Inland Slopes bioregion

LF Code T T MS MS SS LH MH MH SS LH MH SH SH LTG LTG LTG LTG MNG GF	Species typical of at least part of EVC range Bedfordia arborescens Lomatia fraseri Pomaderris aspera Hedycarya angustifolia Prostanthera lasianthos Coprosma quadrifida Rubus parvifolius Senecio minimus Hydrocotyle hirta Stellaria pungens Viola hederacea sensu Willis (1972) Hypericum japonicum Hydrocotyle tripartita Cyperus lucidus Carex appressa Poa labillardierei var. labillardierei Luzula meridionalis var. flaccida Microlaena stipoides var. stipoides Blechnum nudum	<b>Common Name</b> Blanket-leaf Tree Lomatia Hazel Pomaderris Austral Mulberry Victorian Christmas-bush Prickly Currant-bush Small-leaf Bramble Shrubby Fireweed Hairy Pennywort Prickly Starwort Ivy-leaf Violet Matted St John's Wort Slender Pennywort Leafy Flat-sedge Tall Sedge Common Tussock-grass Common Woodrush Weeping Grass Fishbone Water-fern
		5
MNG	Microlaena stipoides var. stipoides	Weeping Grass
GF GF	Blechnum nudum Pteridium esculentum	Fishbone Water-fern Austral Bracken
GF	Polystichum proliferum	Mother Shield-fern
GF	Blechnum minus	Soft Water-fern
TRF	Todea barbara	Austral King-fern
TRF	Dicksonia antarctica	Soft Tree-fern
SC	Rubus rosifolius var. rosifolius	Rose-leaf Bramble
SC	Parsonsia brownii	Twining Silkpod
SC	Clematis aristata	Mountain Clematis

### **Recruitment:**

Continuous

#### **Organic Litter:**

50 % cover

### Logs:

30 m/0.1 ha.

#### Weediness:

LF Code	<b>Typical Weed Species</b>
MS	Rosa rubiginosa
LH	Cirsium vulgare
MH	Hypochoeris radicata
MH	Cerastium vulgare
MH	Prunella vulgaris

Common Name	Invasive	Impact
Sweet Briar	high	high
Spear Thistle	high	high
Cat's Ear	high	low
Common Mouse-ear Chickweed	high	low
Self-heal	high	low

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Northern Inland Slopes bioregion

### EVC 30: Wet Forest

### Description:

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

Large trees:					
Species		DBH(cm)	#/ha		
Eucalyptus sp	Э.	90 cm	20 / ha		
Tree Canopy	Cover:				
%cover	Character Species			Commo	on Name
40%	<i>Eucalyptus dalrympleana</i> ssp. da	alrympleana		Mountair	n Gum
Understorey					
Understorey: Life form		#Sn	n 0	%Cover	LF code
	any Trop	#Sp		%	
Immature Can		4	0	% 0%	Т
Medium Shrub	ree or Large Shrub	4	-	0% 0%	MS
Small Shrub		o 1	_	0% %	SS
		2	-	% %	SS LH
Large Herb Medium Herb		5	-	~ 0%	MH
	rata Llark		-	0% %	
Small or Prost		2	-		SH
Large Tufted (		1	-	% 0%	LTG
Large Non-tuf		1	-		LNG
	all Tufted Graminoid	1		%	MTG
Ground Fern		4		0%	GF
Tree Fern	limbor	2 2	-	0% %	TRF
Scrambler or (			-		SC
Bryophytes/Lic	inens	na	Z	0%	BL
LF Code	Species typical of at least	t part of EVC ra	nge	Cor	mmon Name
Т	Acacia dealbata	-	-	Silve	er Wattle
Т	Pomaderris aspera			Haze	el Pomaderris
Т	Olearia argophylla			Mus	k Daisy-bush
MS	Coprosma quadrifida			Prick	kly Currant-bush
MS	Olearia phlogopappa			Dust	ty Daisy-bush
MS	Cassinia aculeata			Com	mon Cassinia
MS	Correa lawrenceana			Mou	intain Correa
MH	Viola hederacea sensu Willis (19	72)		Ivy-	leaf Violet
MH	Hydrocotyle hirta			Hair	y Pennywort
MH	Sambucus gaudichaudiana			Whit	te Elderberry
MH	Geranium potentilloides			Cino	uefoil Cranesbill
SH	Leptostigma reptans			Dwa	arf Nertera
LTG	Lepidosperma elatius			Tall	Sword-sedge
LNG	Tetrarrhena juncea			Fore	est Wire-grass
GF	Pteridium esculentum			Aust	tral Bracken
GF	Polystichum proliferum			Mot	her Shield-fern
GF	Histiopteris incisa			Bat's	s Wing Fern
GF	Blechnum wattsii			Hard	d Water-fern
TRF	Dicksonia antarctica			Soft	Tree-fern
TRF	Cyathea australis			Rou	gh Tree-fern
SC				Mou	untain Clamatia
	Clematis aristata			IVIOU	intain Clematis
SC	Clematis aristata Billardiera longiflora var. longiflo	ora			ble Apple-berry



### EVC 30: Wet Forest - Northern Inland Slopes bioregion

Organic Litte 50 % cover	er:			
Logs: 30 m/0.1 ha.				
Weediness: LF Code MH	<b>Typical Weed Species</b> Hypochoeris radicata	Common Name Cat's Ear	<b>Invasive</b> high	Impact low
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Northern Inland Slopes bioregion

### 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 Eucalyptus spp.		<b>DBH(cm)</b> 50 cm	<b>#/ha</b> 15 / ha		
Tree Canopy C	over:				
<b>%cover</b> 20%	<b>Character Species</b> <i>Eucalyptus dives</i> <i>Eucalyptus rubida</i> <i>Eucalyptus radiata</i>			Broad-lea Candlebar	n Name ved Peppermint <sup>-</sup> k aved Peppermint
Understorey:					
Life form		#S	рр	%Cover	LF code
Immature Cano	py Tree			5%	IT
Understorey Tre	e or Large Shrub	2		20%	Т
Medium Shrub		5		20%	MS
Small Shrub		2		5%	SS
Prostrate Shrub		2		5%	PS
Large Herb		3		5%	LH
Medium Herb		9		15%	MH
Large Tufted Gr	aminoid	2		5%	LTG
Medium to Small Tufted Graminoid		6		15%	MTG
Ground Fern		1		5%	GF
Scrambler or Cli	mber	2		1%	SC
Bryophytes/Lich	ens	na		10%	BL
Soil Crust		na		10%	S/C



### EVC 36: Montane Dry Woodland - Northern Inland Slopes bioregion

LF Code T T MS MS MS SS SS SS SS PS PS PS PS PS PS LH LH LH LH LH LH LH LH MH MH MH MH MH MH MH G F SC SC <b>Recruitment:</b> Continuous <b>Organic Litter</b> 20 % cover L <b>Dgs:</b> 15 m/0.1 ha.	Species typical of at least part of Acacia dealbata Acacia obliquinervia Coprosma hirtella Cassinia aculeata Pultenaea juniperina s.l. Polyscias sambucifolia Olearia erubescens Tetratheca ciliata Hibbertia obtusifolia Platylobium formosum Persoonia chamaepeuce Acrotriche serrulata Senecio tenuiflorus Wahlenbergia stricta Arthropodium milleflorum s.l. Derwentia derwentiana Viola hederacea sensu Willis (1972) Gonocarpus tetragynus Stellaria pungens Viola betonicifolia ssp. betonicifolia Lomandra longifolia Stylidium graminifolium s.l. Dianella tasmanica Poa sieberiana Luzula meridionalis Pteridium esculentum Polystichum proliferum Clematis aristata	of EVC range	Common Name Silver Wattle Mountain Hickory Wattle Rough Coprosma Common Cassinia Prickly Bush-pea Elderberry Panax Moth Daisy-bush Pink-bells Grey Guinea-flower Handsome Flat-pea Dwarf Geebung Honey-pots Slender Fireweed Tall Bluebell Pale Vanilla-lily Derwent Speedwell Ivy-leaf Violet Common Raspwort Prickly Starwort Showy Violet Spiny-headed Mat-rush Grass Trigger-plant Tasman Flax-lily Grey Tussock-grass Common Woodrush Austral Bracken Mother Shield-fern Mountain Clematis
Weediness: LF Code MH	<b>Typical Weed Species</b> <i>Hypochoeris radicata</i>	<b>Common Name</b> Cat's Ear	<b>Invasive</b> high
<b>y</b>	ian Government Department of Sustainability and Envir a Department of Sustainability and Environment 2004	ronment December 2004	

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Impact

low

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Northern Inland Slopes bioregion

### 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 Eucalyptus spp.		<b>DBH(cm)</b> 90 cm	<b>#/ha</b> 20 / ha	I	
Tree Canopy Co %cover				Commo	n Nama
40%	<b>Character Species</b> <i>Eucalyptus delegatensis</i> ssp. <i>de</i> <i>Eucalyptus radiata</i> s.l. <i>Eucalyptus rubida</i>	elegatensis		Alpine Ash	af Peppermint
Understorey:					
Life form		#9	Spp	%Cover	LF code
Immature Canop				5%	IT
,	e or Large Shrub	3		15%	Т
Medium Shrub		7		20%	MS
Small Shrub		2		1%	SS
Prostrate Shrub		1		5%	PS
Large Herb		4		5%	LH
Medium Herb		12		20%	MH
Small or Prostrat		2		5%	SH
Large Tufted Gra		1		1%	LTG
	l Tufted Graminoid	6		20%	MTG
	Non-tufted Graminoid	1		5%	MNG
Ground Fern		2		15%	GF
Scrambler or Clir		2		5%	SC
Bryophytes/Liche	ens	na		20%	BL



### EVC 38: Montane Damp Forest – Northern Inland Slopes bioregion

LF Code	Species typical of at least part of EVC range	Common Name
Т	Acacia dealbata	Silver Wattle
MS	Cassinia aculeata	Common Cassinia
MS	Coprosma hirtella	Rough Coprosma
MS	Coprosma quadrifida	Prickly Currant-bush
MS	Polyscias sambucifolia	Elderberry Panax
SS	Olearia erubescens	Moth Daisy-bush
PS	Platylobium formosum	Handsome Flat-pea
LH	Derwentia derwentiana	Derwent Speedwell
LH	Senecio linearifolius	Fireweed Groundsel
LH	Picris angustifolia	Native Picris
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH	Stellaria pungens	Prickly Starwort
MH	Acaena novae-zelandiae	Bidgee-widgee
MH	Lagenophora stipitata	Common Bottle-daisy
SH	Chiloglottis gunnii s.l.	Common Bird-orchid
SH	Leptinella filicula	Mountain Cotula
SH	Hydrocotyle laxiflora	Stinking Pennywort
LTG	Lomandra longifolia	Spiny-headed Mat-rush
MTG	Dianella tasmanica	Tasman Flax-lily
MTG	Poa ensiformis	Sword Tussock-grass
MTG	Poa sieberiana	Grey Tussock-grass
MTG	Stylidium graminifolium s.l.	Grass Trigger-plant
MNG	Microlaena stipoides var. stipoides	Weeping Grass
MNG	Deyeuxia rodwayi	Tasman Bent-grass
GF	Pteridium esculentum	Austral Bracken
GF	Polystichum proliferum	Mother Shield-fern
SC	Clematis aristata	Mountain Clematis
Dooruitmon	<b>4</b> .	

### **Recruitment:**

Continuous.

#### **Organic Litter:**

50 % cover

#### Logs:

30 m/0.1 ha.

#### Weediness:

LF Code LH

MH

### **Typical Weed Species** Cirsium vulgare Hypochoeris radicata

Common Name Spear Thistle Cat's Ear

Invasive high high

Impact high low

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Northern Inland Slopes bioregion

### EVC 47: Valley Grassy Forest

### **Description:**

Large trees:

Valley Grassy Forest occurs under moderate rainfall regimes of 700-800 mm per annum on fertile well-drained colluvial or alluvial soils on gently undulating lower slopes and valley floors. Open forest to 20 m tall that may contain 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.

Species Eucalyptus spp		<b>DBH(cm)</b> 70 cm	<b>#/ha</b> 20 / ha		
Tree Canopy ( %cover 20%	Cover: Character Species Eucalyptus blakelyi Eucalyptus macrorhyncha Eucalyptus melliodora Eucalyptus albens Eucalyptus rubida Eucalyptus bridgesiana Eucalyptus polyanthemos			<b>Common</b> Blakely's F Red String Yellow Box White Box Candlebar But But Red Box	Red-gum jybark x
Medium Shrub Small Shrub Large Herb Medium Herb Small or Prostr Large Tufted G Medium to Sma	ee or Large Shrub ate Herb iraminoid all Tufted Graminoid y Non-tufted Graminoid	<b>#Si</b> 3 3 1 8 3 1 12 1 12 1 na		<b>%Cover</b> 5% 10% 5% 1% 20% 1% 1% 25% 5% 20%	LF code IT T MS SS LH MH SH LTG MTG MNG BL



### EVC 47: Valley Grassy Forest - Northern Inland Slopes bioregion

LF Code	Species typical of at least part of EVC range Acacia dealbata Acacia melanoxylon	<b>Common Name</b> Silver Wattle Blackwood
Т	Exocarpos cupressiformis	Cherry Ballart
MS	Cassinia aculeata	Dogwood
MS	Dodonaea viscosa ssp. angustissima	Narrow-leaf Hop-bush
MS	Indigofera australis	Austral Indigo
SS	Hibbertia riparia	Erect Guinea-flower
SS	Hibbertia obtusifolia	Grey Guinea-flower
SS	Platylobium formosum	Handsome Flat-pea
LH	Senecio quadridentatus	Cotton Fireweed
LH	Wahlenbergia stricta	Tall Bluebell
MH	Gonocarpus tetragynus	Common Raspwort
MH	Hypericum gramineum	Small St John's Wort
MH	Geranium solanderi s.l.	Austral Cranesbill
SH	Hydrocotyle laxiflora	Stinking Pennywort
SH	Desmodium varians	Slender Tick-trfoil
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Dianella revoluta s.l.	Black-anther Flax-lily
MTG	Schoenus apogon	Common Bog-sedge
MTG	Arthropodium strictum s.I.	Chocolate Lily
MNG	Microlaena stipoides var. stipoides	Weeping Grass
GF	Cheilanthes austrotenuifolia	Green Rock-fern
SC	Hardenbergia violacea	Purple Coral-pea
SC	Glycine clandestina	Twining Glycine

#### **Recruitment:**

Continuous

#### **Organic Litter:**

20 % cover

#### Logs:

20 m/0.1 ha.

### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Hypericum perforatum	St John's Wort	high	high
LH	Sonchus asper s.l.	Rough Sow-thistle	high	low
LH	Cirsium vulgare	Spear Thistle	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Anagallis arvensis	Pimpernel	high	low
MH	Hypochoeris glabra	Smooth Cat's-ear	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Briza maxima	Large Quaking-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	Phalaris aquatica	Toowoomba Canary-grass	high	high

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Northern Inland Slopes bioregion

### EVC 55: Plains Grassy Woodland

### **Description:**

An open, eucalypt woodland to 15 m tall occurring on a number of geologies and soil types. Occupies poorly drained, fertile soils on flat or gently undulating plains at low elevations. The understorey consists of a few sparse shrubs over a species-rich grassy and herbaceous ground layer. Occurred extensively in the past but has been mainly cleared for agriculture, resulting in few intact remnants remaining.

Large trees: Species Eucalyptus spp Callitris spp.		<b>DBH(cm)</b> 80 cm 50 cm	<b>#/ha</b> 15 / ha			
Tree Canopy C %cover 15%	Cover: Character Species Callitris glaucophylla Eucalyptus microcarpa Eucalyptus melliodora Eucalyptus bridgesiana s.1.			<b>Common Name</b> White Cypress-pine Grey Box Yellow Box But But		
Medium Shrub Small Shrub Large Herb Medium Herb Small or Prostra Medium to Sma	ee or Large Shrub ate Herb all Tufted Graminoid / Non-tufted Graminoid	# <b>Sp</b> 1 2 15 5 8 2 1 1 0 0		<b>%Cover</b> 5% 5% 10% 1% 5% 40% 10% 30% 5% 1% 10%	LF code IT T MS SS LH MH SH MTG MNG GF BL	
Soil Crust LF Code MS MS SS	<b>Species typical of at least</b> <i>Acacia acinacea</i> s.l. <i>Acacia paradoxa</i> <i>Pimelea curviflora</i> s.l.	na		10% Com Gold- Hedg Curve	S/C <b>Imon Name</b> dust Wattle e Wattle ed Rice-flower	
SS LH LH MH MH SH SH SH SH MTG MTG MTG MTG SC SC	Dillwynia cinerascens s.l. Senecio quadridentatus Wahlenbergia luteola Chrysocephalum apiculatum s.l. Leptorhynchos squamatus Stuartina muelleri Gonocarpus tetragynus Triptilodiscus pygmaeus Actinobole uliginosum Calotis hispidula Ptilotus spathulatus f. spathulatu Austrostipa scabra Austrodanthonia pilosa Austrodanthonia caespitosa Themeda triandra Thysanotus patersonii Glycine clandestina	15		Cotto Yellov Comr Scaly Spoor Comr Flann Hairy Pussy Roug Velve Comr Kang. Twini	Parrot-pea n Fireweed wish Bluebell non Everlasting Buttons n Cudweed non Raspwort non Sunray el Cudweed Burr-daisy r Tails h Spear-grass t Wallaby-grass aroo Grass ng Fringe-lily ng Glycine	



### **Recruitment:**

Continuous

#### **Organic Litter:**

10 % cover Logs: 15 m/0.1 ha.

### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Sonchus oleraceus	Common Sow-thistle	high	low
MH	<i>Trifolium arvense</i> var. <i>arvense</i>	Hare's-foot Clover	high	low
MH	Hypochoeris glabra	Smooth Cat's-ear	high	low
MH	Arctotheca calendula	Cape Weed	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	Parentucellia latifolia	Red Bartsia	high	low
MH	Petrorhagia nanteuilii	Childling Pink	high	low
SH	Trifolium tomentosum var. tomentosum	Woolly Clover	high	low
MTG	Bromus hordeaceus ssp. hordeaceus	Soft Brome	high	low
MTG	Phalaris minor	Lesser Canary-grass	high	low
MNG	Bromus rubens	Red Brome	high	low
MNG	Aira elegantissima	Delicate Hair-grass	high	low
MNG	Vulpia myuros	Rat's-tail Fescue	high	low

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Northern Inland Slopes bioregion

EVC 56: Floodplain Riparian Woodland

### **Description:**

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

Large trees: Species Eucalyptus spp.		<b>DBH(cm)</b> 80 cm	<b>#/ha</b> 15 / ha			
Tree Canopy Co %cover 15%	over: Character Species Eucalyptus camaldulensis		••	<b>Common Name</b> River Red-gum		
Medium Shrub Small Shrub Large Herb Medium Herb Small or Prostra Large Tufted Gr Large Non-tufte Medium to Smal	e or Large Shrub te Herb aminoid d Graminoid II Tufted Graminoid Non-tufted Graminoid mber	<b>#Sp</b> 2 6 1 4 4 1 2 2 4 3 1 1 1 1 na	%Cc           5%           10%           1%           10%           10%           10%           10%           5%           10%           5%           10%           5%           10%           5%           10%           5%           10%           5%           10%           5%           10%           5%           10%	DVER LF IT T MS SS LH MH SH LTG LNG GF SC BL	G	
T MS MS SS MH SH LTG LNG MTG MTG MTG MTG MNG GF	Species typical of at least Acacia dealbata Hymenanthera dentata s.l. Cassinia aculeata Kunzea ericoides Rubus parvifolius Acaena novae-zelandiae Hydrocotyle laxiflora Carex appressa Phragmites australis Juncus amabilis Poa labillardierei Cyperus Ihotskyanus Microlaena stipoides var. stipoide Distichlis distichophylla Pteridium esculentum Muellerina eucalyptoides		nge	<b>Common</b> Silver Watt Tree Violet Common C Burgan Small-leaf Bidgee-wic Stinking Pe Tall Sedge Common R Hollow Rus Common T Creeping F Weeping G Australian Austral Bra Creeping N	tle Cassinia Bramble dgee ennywort Reed sh Tussock-grass Flat-sedge Grass Salt-grass Salt-grass acken	



### **Recruitment:**

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

#### **Organic Litter:**

40 % cover

#### Logs:

30 m/0.1 ha.

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

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Northern Inland Slopes bioregion

### EVC 61: Box Ironbark Forest

### **Description:**

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

Large trees:					
Species		DBH(cm)	#/ha		
<i>Eucalyptus</i> spp.		70 cm	15 / ha		
Tree Canopy C	over:				
%cover	Character Species			Comn	non Name
30% r	Eucalyptus sideroxylon s.s.			Muqqa	
	Eucalyptus macrorhyncha				ingybark
	Eucalyptus polyanthemos			Red Bo	x
	Eucalyptus microcarpa			Grey Bo	X
Understorey:					
Life form		#Sp	p	%Cove	r LF code
Immature Cano	py Tree	•		5%	IT
Medium Shrub		5		10%	MS
Small Shrub		5		15%	SS
Prostrate Shrub		1		1%	PS
Large Herb		2		5%	LH
Medium Herb		6		15%	MH
Small or Prostra	te Herb	1		1%	SH
Large Tufted Gr	aminoid	1		5%	LTG
	ll Tufted Graminoid	8		20%	MTG
Scrambler or Cli		1		1%	SC
Bryophytes/Lich	ens	na		10%	BL
Soil Crust		na		10%	S/C
Total unders	torey projective foliage c	over		85%	
	Species typical of at least	part of EVC ra	ange	Co	ommon Name
	Acacia pycnantha			Go	lden Wattle
MS	Grevillea alpina				t's Claw Grevillea
	Cassinia arcuata			Dro	ooping Cassinia
	Daviesia leptophylla				rrow-leaf Bitter-pea
	Hibbertia riparia				ect Guinea-flower
	Hibbertia obtusifolia				ey Guinea-flower
	Dillwynia sericea s.l.				owy Parrot-pea
	Acrotriche serrulata				ney-pots
	Astroloma humifusum				anberry Heath
	Xerochrysum bracteatum				lden Everlasting
	Senecio tenuiflorus				nder Fireweed
	Gonocarpus tetragynus Goodenia hederacea				mmon Raspwort ⁄ Goodenia
	Drosera peltata ssp. auriculata			,	ll Sundew
	Hydrocotyle laxiflora				nking Pennywort
	Lomandra filiformis				attle Mat-rush
	Poa sieberiana				ey Tussock-grass
	Dianella revoluta s.l.				ick-anther Flax-lily
	Austrostipa scabra				ugh Spear-grass
	Amyema miguelii				x Mistletoe
	Hardenbergia violacea				rple Coral-pea
				. u	



#### **Recruitment:**

Continuous

#### **Organic Litter:** 20 % cover

Logs: 20 m/0.1 ha.

### Weediness:

LF Code MH MH

MTG

Hypochoeris radicata Hypochoeris glabra Briza maxima

**Typical Weed Species** 

### **Common Name**

Cat's Ear Smooth Cat's-ear Large Quaking-grass Invasive Impact high low high low high low

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Northern Inland Slopes bioregion

EVC 67: Alluvial Terraces Herb-rich Woodland

### **Description:**

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

Large trees: Species Eucalyptus spp.		<b>DBH(cm)</b> 70 cm	<b>#/ha</b> 15 / ha		
Tree Canopy Co %cover 15%	over: Character Species Eucalyptus microcarpa			ommon Nam ey Box	e
	Eucalyptus melliodora Eucalyptus albens			llow Box nite Box	
Understorey:					_
Life form		#Spj		over LF co	de
Immature Cano			5%	IT	
	e or Large Shrub	1	5%	Т	
Medium Shrub		3	5%	MS	
Small Shrub		2	5%	SS	
Prostrate Shrub		1	1%	PS	
Large Herb		3 7	5%	LH	
Medium Herb	tollow	/ 1	25% 1%		
Small or Prostra Large Tufted Gr		1	1% 1%	SH LTG	
	ll Tufted Graminoid	9	20%	MTG	
Bryophytes/Lich		na	10%	BL	
Soil Crust	ens	na	10%	S/C	
	torey projective foliage c		85%	-7 -	
	torey projective ronage c	over	00 /	0	
	Species typical of at least		nge	Common N	lame
	Brachychiton populneus ssp. pop	pulneus		Kurrajong	
	Acacia dealbata			Silver Wattle	
-	Cassinia arcuata			Drooping Cas	
	Acacia pycnantha			Golden Wattle	
	Acacia verniciflua			Varnish Wattl	
	<i>Bursaria spinosa</i> ssp. <i>spinosa</i> <i>Pultenaea humilis</i>			Sweet Bursar	
	Hibbertia exutiacies			Dwarf Bush-p Spiky Guinea	
	Astroloma humifusum			Cranberry He	
	Senecio tenuiflorus			Slender Firew	
	Lagenophora huegelii			Coarse Bottle	
	Stackhousia monogyna			Creamy Stack	,
	Rumex brownii			Slender Dock	
	Hydrocotyle laxiflora			Stinking Penn	
	Schoenus apogon			Common Bog	,
MTG	<i>Poa sieberiana</i> var. <i>sieberiana</i>			Grey Tussock	
	Lomandra multiflora ssp. multifle	ora		Many-flowere	
MTG	Tricoryne elatior			Yellow Rush-	
	Microlaena stipoides var. stipoid	es		Weeping Gras	
	Amyema miquelii			Box Mistletoe	
SC	Thysanotus patersonii			Twining Fring	e-lily



### **Recruitment:**

Continuous

### **Organic Litter:**

10 % cover

Logs: 15 m/0.1 ha.

#### Weediness:

LF Code LH MH MH MTG MTG MNG MNG

**Typical Weed Species** Sonchus oleraceus Hypochoeris radicata Centaurium spp. Briza maxima Vulpia bromoides Bromus rubens Vulpia spp.

#### **Common Name** Common Sow-thistle Cat's Ear Centaury Large Quaking-grass Squirrel-tail Fescue Red Brome

Fescue

Invasive Impact high low high low high low high low high low high low high low

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Northern Inland Slopes bioregion

### EVC 68: Creekline Grassy Woodland

#### **Description:**

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

Large trees: Species Eucalyptus spp.		<b>DBH(cm)</b> 80 cm	<b>#/ha</b> 15 / ha		
Tree Canopy Co %cover 15%	over: Character Species Eucalyptus camaldulensis			<b>mmon Name</b> er Red-gum	
Medium Shrub Small Shrub Large Herb Medium Herb Small Herb* Large Tufted Gru Large Non-tufted Medium to Smal	e or Large Shrub aminoid d Graminoid II Tufted Graminoid Non-tufted Graminoid	# <b>Sp</b> 1 4 3 2 9 3 2 1 16 3 na	p %C0 5% 5% 10% 5% 5% 5% 5% 5% 5% 5% 5% 10%	over LF code IT T MS SS LH MH SH LTG LNG MTG MNG BL	
T / / T / / MS / / MS / / SS / SS / PS / / LH / / LH / LH / SH / LTG / LNG / LNG / MTG / MTG / MTG /	Species typical of at least Acacia dealbata Acacia melanoxylon Acacia pycnantha Melaleuca parvistaminea Acacia retinodes var. retinodes Pimelea humilis Astroloma humifusum Senecio tenuiflorus Senecio tenuiflorus Senecio quadridentatus Centipeda cunninghamii Hypericum gramineum Dichondra repens Carex appressa Phragmites australis Elymus scaber var. scaber Poa labillardierei Juncus spp. Cyperus spp. Microlaena stipoides var. stipoide		nge	<b>Common Nam</b> Silver Wattle Blackwood Golden Wattle Rough-barked Ha Wilrilda Common Rice-flov Cranberry Heath Slender Fireweed Cottony Fireweed Cottony Fireweed Common Sneezew Small St John's W Kidneyweed Tall Sedge Common Reed Common Reed Common Wheat-o Common Tussock Rush Flat-sedge Weeping Grass	oney-myrtle ver veed ort



#### **Recruitment:**

Continuous

#### **Organic Litter:**

40 % cover

#### Logs:

30 m/0.1 ha.

#### Weediness:

Typical Weed Species	Common Name	Invasive	Impact
Cirsium vulgare	Spear Thistle	high	high
Sonchus oleraceus	Common Sow-thistle	high	low
Hypochoeris radicata	Cat's Ear	high	low
Anagallis arvensis	Pimpernel	high	low
Hypochoeris glabra	Smooth Cat's-ear	high	low
Galium murale	Small Goosegrass	high	low
Oxalis pes-caprae	Soursob	high	high
Juncus acutus	Spiny Rush	high	high
Phalaris aquatica	Toowoomba Canary-grass	high	high
Briza maxima	Large Quaking-grass	high	low
Briza minor	Lesser Quaking-grass	high	low
Romulea rosea	Onion Grass	high	low
Vulpia bromoides	Squirrel-tail Fescue	high	low
Bromus hordeaceus ssp. hordeaceus	Soft Brome	high	low
Aira elegantissima	Delicate Hair-grass	high	low
Vulpia muralis	Wall Fescue	high	low
Bromus madritensis	Madrid Brome	high	low
	Cirsium vulgare Sonchus oleraceus Hypochoeris radicata Anagallis arvensis Hypochoeris glabra Galium murale Oxalis pes-caprae Juncus acutus Phalaris aquatica Briza maxima Briza minor Romulea rosea Vulpia bromoides Bromus hordeaceus ssp. hordeaceus Aira elegantissima Vulpia muralis	Cirsium vulgareSpear ThistleSonchus oleraceusCommon Sow-thistleHypochoeris radicataCat's EarAnagallis arvensisPimpernelHypochoeris glabraSmooth Cat's-earGalium muraleSmall GoosegrassOxalis pes-capraeSoursobJuncus acutusSpiny RushPhalaris aquaticaToowoomba Canary-grassBriza maximaLarge Quaking-grassBriza minorLesser Quaking-grassVulpia bromoidesSquirrel-tail FescueBromus hordeaceus ssp. hordeaceusSoft BromeAira elegantissimaDelicate Hair-grassVulpia muralisWall Fescue	Cirsium vulgareSpear ThistlehighSonchus oleraceusCommon Sow-thistlehighHypochoeris radicataCat's EarhighAnagallis arvensisPimpernelhighHypochoeris glabraSmooth Cat's-earhighGalium muraleSmall GoosegrasshighOxalis pes-capraeSoursobhighJuncus acutusSpiny RushhighPhalaris aquaticaToowoomba Canary-grasshighBriza maximaLarge Quaking-grasshighBriza minorLesser Quaking-grasshighVulpia bromoidesSquirrel-tail FescuehighBromus hordeaceusSoft BromehighAira elegantissimaDelicate Hair-grasshighVulpia muralisWall Fescuehigh

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## EVC/Bioregion Benchmark for Vegetation Quality Assessment Northern Inland Slopes bioregion

## EVC 72: Granitic Hills Woodland

#### **Description:**

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

Large trees: Species Eucalyptus spp. Callitris spp.		<b>DBH(cm)</b> 50 cm 30 cm	<b>#/ha</b> 15 / ha		
Tree Canopy C	over:				
<b>%cover</b> 15%	Character Species Eucalyptus blakelyi Eucalyptus macrorhyncha Eucalyptus goniocalyx s.l. Callitris endlicheri Callitris glaucophylla			<b>Common</b> Blakely's R Red String Bundy Black Cypr White Cyp	Red-gum Jybark ress-pine
Understorey:					
Life form Immature Cano	py Tree	#S	<b>F F</b>	<b>%Cover</b> 5%	<b>LF code</b> IT
Medium Shrub	,	7		20%	MS
Small Shrub		3		5%	SS
Large Herb		4		5%	LH
Medium Herb	to Usuk	11		15%	MH
Small or Prostra	te Herd Il Tufted Graminoid	2 6		1% 5%	SH MTG
	Non-tufted Graminoid	2		1%	MNG
Ground Fern	Non tarted Granninoid	2		1%	GF
Bryophytes/Lich	ens	na		10%	BL
Soil Crust		na		10%	S/C
Total unders	torey projective foliage c	over		65%	



### EVC 72: Granitic Hills Woodland - Northern Inland Slopes bioregion

LF Code T MS MS MS MS SS SS SS SS SS SS SS PS LH LH LH LH LH LH MH MH SH MTG MTG MTG	Species typical of at least part of EVC range Allocasuarina verticillata Acacia buxifolia ssp. buxifolia Calytrix tetragona Persoonia rigida Brachyloma daphnoides Acacia verniciflua Hibbertia riparia Hibbertia obtusifolia Pultenaea procumbens Astroloma humifusum Xerochrysum viscosum Stypandra glauca Senecio tenuiflorus Senecio tenuiflorus Senecio quadridentatus Gonocarpus tetragynus Gonocarpus elatus Geranium solanderi s.l. Hydrocotyle laxiflora Lepidosperma laterale Lomandra filiformis Dianella revoluta s.l.	Common Name Drooping Sheoak Box-leaf Wattle Common Fringe-myrtle Hairy Geebung Daphne Heath Varnish Wattle Erect Guinea-flower Grey Guinea-flower Heathy Bush-pea Cranberry Heath Shiny Everlasting Nodding Blue-lily Slender Fireweed Cotton Fireweed Cotton Fireweed Cotton Fireweed Cotton Fireweed Cotton Fireweed Common Raspwort Tall Raspwort Austral Cranesbill Stinking Pennywort Variable Sword-sedge Wattle Mat-rush Black-anther Flax-lily
	Lomandra filiformis	
SC SC	Thysanotus patersonii Glycine clandestina	Twining Fringe-lily Twining Glycine

#### **Recruitment:**

Continuous

#### **Organic Litter:**

20 % cover

#### Logs:

15 m/0.1 ha.

#### Weediness:

LF Code	Typical Weed Species
MH	Hypochoeris radicata
MH	Hypochoeris glabra
MH	Cerastium glomeratum s.l.
MH	Galium murale
MH	Galium divaricatum
MH	Petrorhagia velutina
MH	Centaurium spp.
MTG	Vulpia bromoides
MTG	Briza minor
MTG	Briza maxima
MNG	Aira elegantissima

#### **Common Name**

high	low
high	low
	high high high high high high high high

Invasive

Impact

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Northern Inland Slopes bioregion

## EVC 80: Spring Soak Woodland

#### **Description:**

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

Large trees: Species Eucalyptus spp.		<b>DBH(cm)</b> 50 cm	<b>#/ha</b> 5 / ha		
Tree Canopy C	over:				
<b>%cover</b> 10%	<b>Character Species</b> <i>Eucalyptus blakelyi</i> <i>Eucalyptus bridgesiana s.s.</i>		Bla	<b>mmor</b> kely's R t But	n Name ed-gum
Understorey:					
Life form Immature Cano Medium Shrub Large Herb Medium Herb Small or Prostra Large Tufted Gr Large Non-tufte Medium to Sma	ite Herb raminoid Id Graminoid Il Tufted Graminoid Non-tufted Graminoid	# <b>Sp</b> 2 6 3 2 3 9 1 na	p %Ca 5% 5% 1% 10% 10% 10% 5% 35% 5% 20%		LF code IT MS LH MH SH LTG LNG MTG MNG BL
				_	
MS MS LH MH SH SH LTG LTG LNG LNG MTG MTG MTG MTG	Species typical of at least Acacia dealbata Mirbelia oxylobioides Leptospermum continentale Senecio minimus Ranunculus sessiliflorus var. sess Hydrocotyle hirta Hypericum japonicum Gonocarpus micranthus ssp. mic Juncus sarophorus Carex appressa Baumea rubiginosa s.s. Phragmites australis Juncus fockei Poa labillardierei var. labillardierei Juncus holoschoenus Luzula meridionalis var. flaccida Eleocharis gracilis	siliflorus ranthus	nge	Silver Mount Prickly Shrub Annua Hairy Mattee Creep Broom Tall Se Soft T Comm Slende Comm Joint-I Comm	mon Name Wattle cain Mirbelia (Tea-tree by Fireweed al Buttercup Pennywort d St John's Wort ing Raspwort of Rush edge wig-sedge on Reed er Joint-leaf Rush on Tussock-grass eaf Rush on Woodrush er Spike-sedge



#### **Recruitment:**

Continuous

#### **Organic Litter:** 20 % cover

Logs:

5 m/0.1 ha.

#### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Sonchus asper s.l.	Rough Sow-thistle	high	low
LH	Hypericum perforatum	St John's Wort	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Anagallis arvensis	Pimpernel	high	low
MH	Centaurium spp.	Centaury	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Briza minor	Lesser Quaking-grass	high	low
TTG	Cyperus tenellus	Tiny Flat-sedge	high	low

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Northern Inland Slopes bioregion

## EVC 82: Riverine Escarpment Scrub

#### **Description:**

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

#### **Canopy Cover:**

<b>%cover</b> 30%	Character Species Acacia melanoxylon Pomaderris aspera Acacia dealbata	<b>Common Name</b> Blackwood Hazel Pomaderris Silver Wattle		
Understorey:		<b>#0</b>	0/ <b>C</b>	
Life form		#Spp	%Cover	LF code
Immature Cano	ppy Shrub		5%	IT
Medium Shrub		8	30%	MS
Small Shrub		1	1%	SS
Prostrate Shrub	)	2	1%	PS
Large Herb		2	5%	LH
Medium Herb		12	20%	MH
Small or Prostra	ate Herb	3	5%	SH
Large Tufted G	raminoid	3	10%	LTG
Medium to Small Tufted Graminoid		4	15%	MTG
Medium to Tiny Non-tufted Graminoid		2	5%	MNG
, Ground Fern		3	10%	GF
Scrambler or C	limber	1	5%	SC
Bryophytes/Lich		na	10%	BL

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



#### **Recruitment:**

Continuous

#### **Organic Litter:**

40 % cover

#### Logs:

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

#### Weediness:

Typical Weed Species	Common Name	Invasive	Impact
Rosa rubiginosa	Sweet Briar	low	high
Rubus sp. aff. armeniacus	Blackberry	low	high
Rubus fruticosus spp. agg.	Blackberry	low	high
Hypochoeris radicata	Cat's Ear	high	low
Centaurium erythraea	Common Centaury	high	low
Prunella vulgaris	Self-heal	high	high
Holcus lanatus	Yorkshire Fog	high	high
	<i>Rosa rubiginosa Rubus</i> sp. aff. <i>armeniacus Rubus fruticosus</i> spp. agg. <i>Hypochoeris radicata Centaurium erythraea Prunella vulgaris</i>	Rosa rubiginosaSweet BriarRubus sp. aff. armeniacusBlackberryRubus fruticosus spp. agg.BlackberryHypochoeris radicataCat's EarCentaurium erythraeaCommon CentauryPrunella vulgarisSelf-heal	Rosa rubiginosaSweet BriarIowRubus sp. aff. armeniacusBlackberryIowRubus fruticosus spp. agg.BlackberryIowHypochoeris radicataCat's EarhighCentaurium erythraeaCommon CentauryhighPrunella vulgarisSelf-healhigh

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Northern Inland Slopes bioregion

EVC 83: Swampy Riparian Woodland

#### **Description:**

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

Large trees: Species Eucalyptus spp.		<b>DBH(cm</b> ) 70 cm	)	<b>#/ha</b> 10 / ha		
Tree Canopy C %cover 15%	over: Character Species Eucalyptus camphora ssp. hun	neana			<b>Commo</b> Mountain	<b>n Name</b> Swamp-gum
10 /0	Eucalyptus outata Eucalyptus radiata s.l. Melaleuca ericifolia	icana.			Swamp Gu	um af Peppermint
Understorey:						
Life form	<b>T</b>		#Spp	)	%Cover	LF code
Immature Cano	py Tree ee or Large Shrub		2		5% 15%	IT T
Medium Shrub			4		10%	MS
Small Shrub			1		1%	SS
Large Herb			3		5%	LH
Medium Herb			8		15%	MH
Small or Prostra	te Herb		4		5%	SH
Large Tufted Gr			4		20%	LTG
Large Non-tufte			2		5%	LNG
	II Tufted Graminoid		4		15%	MTG
,	Non-tufted Graminoid		3		5%	MNG
Ground Fern			4		10%	GF
Scrambler or Cli			1		1%	SC
Bryophytes/Lich	ens		na		20%	BL



## EVC 83: Swampy Riparian Woodland -Northern Inland Slopes bioregion

LF Code	Species typical of at least part of EVC range	Common Nan
	Species typical of at least part of EVC range Acacia melanoxylon	Blackwood
T	Acacia dealbata	Silver Wattle
MS		Prickly Currant-bi
MS	Coprosma quadrifida	Prickly Tea-tree
MS	Leptospermum continentale Epacris breviflora	Drumstick Heath
SS	,	Small-leaf Bramb
LH	Rubus parvifolius Mentha laxiflora	Forest Mint
LH		Gunn's Willow-he
LH	Epilobium gunnianum Urtica incisa	
		Scrub Nettle
LH	Senecio minimus	Shrubby Firewee
MH	Acaena novae-zelandiae	Bidgee-widgee
MH	Geranium potentilloides	Cinquefoil Cranes
MH	Asperula scoparia	Prickly Woodruff
SH	Hydrocotyle hirta	Hairy Pennywort
SH	Dichondra repens	Kidney-weed
SH	Hypericum japonicum	Matted St John's
SH	Gonocarpus micranthus ssp. micranthus	Creeping Raspwo
SH	Hydrocotyle tripartita	Slender Pennywo
LTG	Cyperus lucidus	Leafy Flat-sedge
LTG	Carex appressa	Tall Sedge
LTG	Gahnia sieberiana	Red-fruit Saw-see
LNG	Phragmites australis	Common Reed
MTG	Poa labillardierei	Common Tussock
MTG	Poa ensiformis	Sword Tussock-g
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	Eleocharis gracilis	Slender Spike-sed
MNG	Echinopogon ovatus	Common Hedgeh
GF	Pteridium esculentum	Austral Bracken
GF	Blechnum nudum	Fishbone Water-f
GF	Polystichum proliferum	Mother Shield-fer
GF	Blechnum minus	Soft Water-fern
TRF	Dicksonia antarctica	Soft Tree-fern

#### me

oush ٦ ble nerb ed esbill s Wort vort ort 2 edge ck-grass arass edge ehog-grass -fern ern

#### **Recruitment:**

Continuous

#### **Organic Litter:**

20 % 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 Cirsium vulgare Spear Thistle high high MH Hypochoeris radicata Cat's Ear high low MH Prunella vulgaris Self-heal high low Musk Monkey-flower MH Mimulus moschatus high low MH Lotus corniculatus Bird's-foot Trefoil high high SH *Trifolium repens* var. *repens* White Clover high low LNG Holcus lanatus Yorkshire Fog high high Sweet Vernal-grass MTG Anthoxanthum odoratum high high

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## EVC/Bioregion Benchmark for Vegetation Quality Assessment Northern Inland Slopes bioregion

## EVC 93: Sandstone Ridge Shrubland (syn. Broombush Mallee)

#### **Description:**

Low open mallee to 3 m tall typically with a tall shrubby understorey, or shrubland with scattered emergent mallees. A good field character for this EVC is the dominance or co-dominance of the tall shrub Melaleuca uncinata in shrubland or as an understorey shrub in Mallee vegetation. Confined to the crests of outcropping Parilla sandstone ridges and also where these ridges are at least partially obscured by a shallow mantle of Lowan sand.

<sup>+</sup> mallee <u>only</u> component (ignore when assessing shrubland areas and standardise final score as appropriate)

Tree Canopy	Cover <sup>+</sup> :				
%cover Character Species			Common Name		
30%	Eucalyptus viridis		Green Mallee		
	Eucalyptus behriana		Bull Malle	e	
Understorey:					
Life form		#Spp	%Cover	LF code	
Medium Shruk	0	9	30%	MS	
Small Shrub		5	10%	SS	
Prostrate Shru	dı	1	1%	PS	
Large Herb		1	1%	LH	
Medium Herb		6	15%	MH	
Medium to Sm	nall Tufted Graminoid	3	5%	MTG	
Bryophytes/Li	chens	na	20%	BL	
Soil Crust		na	20%	S/C	
LF Code	Species typical of at least p	art of EVC range	Com	nmon Name	
MS	Melaleuca uncinata			mbush	
MS	Ozothamnus obcordatus		Grey	Everlasting	
MS	<i>Acacia acinacea</i> s.l.		Gold-	dust Wattle	
MS	Cassinia arcuata		Droo	ping Cassinia	
SS	Astroloma conostephioides		Flam	e Heath	
SS	Pultenaea largiflorens		Twig	gy Bush-pea	
SS	Pultenaea prostrata		Silky	Bush-pea	
SS	Hibbertia exutiacies		Spiky	Guinea-flower	
PS	Astroloma humifusum		Cran	perry Heath	
LH	Senecio tenuiflorus		Slend	ler Fireweed	
MH	Xerochrysum viscosum		Shiny	<pre>/ Everlasting</pre>	
MH	Gonocarpus tetragynus		Comr	non Raspwort	
MTG	Dianella revoluta s.l.		Black	-anther Flax-lily	
MTG	Austrodanthonia setacea		Brist	y Wallaby-grass	
Recruitment:					
Episodic/Fire.	Desirable period between disturband	ces is 30 years.			
Organic Litte	<b>r</b> .				
20 % cover	1.				
Logs⁺:					
5 m/0.1 ha. (ı	note: large log class does not apply)				
Weediness:					

LF C	Code	1
MH		

**Typical Weed Species** Hypochoeris glabra

**Common Name** Smooth Cat's-ear

Invasive Impact high low



### EVC 93: Sandstone Ridge Shrubland (syn. Broombush Mallee) -Northern Inland Slopes Bioregion

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## EVC/Bioregion Benchmark for Vegetation Quality Assessment Northern Inland Slopes Bioregion

## EVC 93\_61: Treed Sandstone Ridge Shrubland

#### **Description:**

Low open mallee to 3 m tall typically with a tall shrubby understorey, or shrubland with scattered emergent mallees. A good field character for this EVC is the dominance or co-dominance of the tall shrub Melaleuca uncinata in shrubland or as an understorey shrub in Mallee vegetation. Confined to the crests of outcropping Parilla sandstone ridges and also where these ridges are at least partially obscured by a shallow mantle of Lowan sand.

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

%coverCharacter Species30%Eucalyptus behriana Eucalyptus viridis		<b>Common Name</b> Bull Mallee Green Mallee		
Understore	y:			
Lifeform		#Spp	%Cover	LF Code
Medium Shr	ub	9	30%	MS
Small Shrub		5	10%	SS
Prostrate Sh	rub	1	1%	PS
Large Herb		1	1%	LH
Medium Her	b	6	15%	MH
Medium to S	Small Tufted Graminoid	3	5%	MTG
Bryophytes/I	Lichens		20%	BL
Soil Crust			20%	S/C

#### LF Code

**Recruitment:** 

Organic Litter: 20 % cover

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

MS	Acacia acinacea s.l.
MS	Cassinia arcuata
MS	Melaleuca uncinata
MS	Ozothamnus obcordatus
SS	Astroloma conostephioides
SS	Hibbertia exutiacies
SS	Pultenaea largiflorens
SS	Pultenaea prostrata
PS	Astroloma humifusum
LH	Senecio tenuiflorus s.l.
MH	Gonocarpus tetragynus
MH	Xerochrysum viscosum
MTG	Austrodanthonia setacea
MTG	Dianella revoluta s.l.

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

#### **Common Name**

Gold-dust Wattle Drooping Cassinia Broombush Grey Everlasting Flame Heath Spiky Guinea-flower Twiggy Bush-pea Silky Bush-pea Cranberry Heath Slender Fireweed Common Raspwort Shiny Everlasting Bristly Wallaby-grass Black-anther Flax-lily

# Victoria

## EVC 93\_61: Treed Sandstone Ridge Shrubland

#### Logs:

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

#### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	Hypochoeris glabra	Smooth Cat's-ear	high	low

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Northern Inland Slopes bioregion

## EVC 101: Samphire Shrubland

#### Description:

Low open shrub layer to 0.5 m tall of succulent chenopods on saline clay pans. Found in association with the various halite salinas that have developed within evaporative basins or 'boinkas'.

Medium t Medium t	rub Herb Pros to Sr to Ti	trate Herb nall Tufted Graminoid ny Non-tufted Graminoid <b>rstorey projective foliage cover</b>	<b># Spj</b> 4 7 3 2 2	%Cover 20% 5% 5% 1% 1% 20%	<b>LF code</b> SS MH SH MTG MNG
LF Code SS SS SS MH MH MH SH SH SH SH SH SH SH MTG MNG	r r	Species typical of at least part of EVC ran Halosarcia pruinosa Halosarcia halocnemoides ssp. halocnemoides Halosarcia pergranulata Frankenia sessilis Senecio glossanthus Hymenolobus procumbens Brachyscome lineariloba Brachyscome exilis Disphyma crassifolium ssp. clavellatum Pogonolepis muelleriana Crassula sieberiana Millotia muelleri Triglochin calcitrapum s.l. Triglochin nanum	-	Common Na Bluish Glassword Blackseed Glas Small-leaf Sea- Slender Ground Oval Purse Hard-head Dais Finger-leaved I Rounded Noon Stiff Cup-flowe Sieber Crassula Common Bow- Spurred Arrowy Dwarf Arrowy	rt tswort heath dsel Daisy -flower r flower grass
D					

Recruitment: Continuous

#### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Brassica tournefortii	Mediterranean Turnip	high	high
MH	Reichardia tingitana	Reichardia	high	low
MH	Hypochoeris glabra	Smooth Cat's-ear	high	low
MH	Carrichtera annua	Ward's Weed	high	high
MH	Spergularia diandra	Lesser Sand-spurrey	high	low
SH	Medicago minima	Little Medic	high	high
SH	Spergularia rubra s.l.	Red Sand-spurrey	high	low
MTG	Critesion murinum subsp. glaucum	Blue Barley-grass	high	high
MNG	Bromus rubens	Red Brome	high	high
MNG	Vulpia bromoides	Rat's-tail Fescue	high	high
SNG	Schismus barbata	Arabian Grass	high	low
SNG	Lamarckia aurea	Golden-top	high	low
SNG	Parapholis incurva	Coast Barb-grass	high	high
SNG	Critesion murinum subsp. glaucum	Blue Barley-grass	high	high



### EVC 101: Samphire Shrubland – Northern Inland Slopes bioregion

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Northern Inland Slopes bioregion

## EVC 132: Plains Grassland

#### Description:

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

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

LF Code MS	Species typical of at least part of EVC range Acacia oswaldii	Common Name Umbrella Wattle
SS	Sclerolaena diacantha	Grey Copperburr
SS	Maireana decalvans	Black Cotton-bush
SS	Pimelea curviflora s.s.	Curved Rice-flower
SS LH	Phileiea cui vinora s.s. Ptilotus exaltatus	Mulla Mulla
LH	Eryngium ovinum	Blue Devil
LH	Calocephalus citreus	Lemon Beauty-heads
MH	Calotis scabiosifolia	Rough Burr-daisy
MH	Goodenia pinnatifida	Cut-leaf Goodenia
MH	Sida corrugata	Variable Sida
MH	Ptilotus macrocephalus	Feather Heads
SH	Maireana pentagona	Hairy Bluebush
SH	Chamaesyce drummondii	Flat Spurge
SH	Pogonolepis muelleriana	Stiff Cup-flower
LTG	Austrostipa blackii	Crested Spear-grass
LTG	Austrostipa qibbosa	Spurred Spear-grass
LTG	Austrostipa aristiglumis	Plump Spear-grass
MTG	Austrostipa scabra	Rough Spear-grass
MTG	Austrostipa nodosa	Knotty Spear-grass
MTG	Whalleya proluta	Rigid Panic
MTG	Austrodanthonia duttoniana	Brown-back Wallaby-grass
SC	Convolvulus erubescens spp. agg.	Pink Bindweed

#### Recruitment:

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

#### Organic Litter:

10% cover



### EVC 132: Plains Grassland – Northern Inland Slopes bioregion

Weediness:				
LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Lycium ferocissimum	Boxthorn	high	high
LH	Helminthotheca echioides	Ox-tongue	high	low
LH	Lepidium africanum	Common Peppercress	high	low
LH	Salvia verbenaca	Wild Sage	high	high
LH	Echium plantagineum	Patterson's Curse	high	high
LH	Sisymbrium irio	London Rocket	high	high
LH	Marrubium vulgare	Horehound	high	high
LNG	Avena fatua	Wild Oat	high	high
MH	Limonium sinuatum	Wild Oat	high	high
MH	Arctotheca calendula	Cape Weed	high	high
MH	Hypochoeris glabra	Smooth Cat's-ear	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Oxalis pes-caprae	Soursob	high	high
MH	Plantago coronopus	Buck's-horn Plantain	high	high
MH	<i>Spergularia rubra</i> s.l.	Red Sand-spurrey	high	low
MH	<i>Trifolium angustifolium</i> var. <i>angustifolium</i>	Narrow-leaf Clover	high	high
MH	<i>Trifolium arvense</i> var. <i>arvense</i>	Hare's-foot Clover	high	high
MH	<i>Trifolium campestre</i> var. <i>campestre</i>	Hop Clover	high	high
MH	Trifolium striatum	Knotted Clover	high	low
MH	Trifolium subterraneum	Subterranean Clover	high	low
MH	Hedypnois cretica	Cretan Hedypnois	high	high
MNG	Aira cupaniana	Quicksilver Grass	high	low
MNG	Avena barbata	Bearded Oat	high	high
MNG	Brachypodium distachyon	False Brome	high	high
MNG	Juncus capitatus	Capitate Rush	high	high
MNG	Vulpia muralis	Wall Fescue	high	high
MNG	Vulpia myuros	Rat's-tail Fescue	high	high
MTG	Bromus diandrus	Great Brome	high	high
MTG	Critesion hystrix	Mediterranean Barley-grass	high	high
MTG	Critesion murinum	Barley-grass	high	high
MTG	Lolium rigidum	Wimmera Rye-grass	high	high
MTG	Pentaschistis airoides ssp. airoides	False Hair-grass	high	low
MTG	Poa bulbosa	Bulbous Meadow-grass	high	high
MTG	Romulea minutiflora	Small-flower Onion-grass	high	high
MTG	Romulea rosea	Onion Grass	high	high
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	high
SH	Medicago minima	Little Medic	high	high
SH	Medicago polymorpha	Burr Medic	high	high
SH	Trifolium glomeratum	Cluster Clover	high	low

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Northern Inland Slopes bioregion

EVC 175\_61: Low Rises Grassy Woodland

#### **Description:**

A variable open eucalypt woodland to 15 m tall or occasionally Sheoak woodland to 10 m tall on more skeletal soils. Understorey includes 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 Eucalyptus spp. Allocasuarina sp	p.	<b>DBH(cm)</b> 70 cm 40 cm	<b>#/ha</b> 15 / ha		
Tree Canopy C %cover 15%	over: Character Species Eucalyptus microcarpa Eucalyptus albens Eucalyptus melliodora Eucalyptus blakelyi Allocasuarina verticillata			<b>Commo</b> Grey Box White Box Yellow Box Blakely's F Drooping	x Red Gum
Medium Shrub Small Shrub Prostrate Shrub Large Herb Medium Herb Large Tufted Gr Large Non-tufte Medium to Sma	e or Large Shrub raminoid d Graminoid II Tufted Graminoid Non-tufted Graminoid	# <b>Sp</b> 1 3 4 1 3 12 1 1 19 4 1 na na		<b>%Cover</b> 5% 5% 10% 5% 20% 5% 5% 40% 5% 10% 10%	LF code IT T MS SS PS LH MH LTG LNG MTG MNG GF BL S/C
MS MS SS r SS SS SS PS LH MH MH LTG MTG MTG MTG MTG MTG MTG MTG MTG MTG M	Species typical of at least Acacia pycnantha Bursaria spinosa ssp. spinosa Acacia acinacea s.l. Templetonia stenophylla Pimelea curviflora s.l. Pimelea humilis Eutaxia microphylla Astroloma humifusum Wahlenbergia stricta Asperula conferta Einadia nutans ssp. nutans Gonocarpus tetragynus Austrostipa mollis Dianella revoluta s.l. Themeda triandra Bothriochloa macra Poa sieberiana Austrostipa elegantissima Cheilanthes austrotenuifolia Convolvulus erubescens spp. ag		nge	Golde Swee Gold- Leafy Curve Comr Crant Tall B Comr Nodd Comr Suppi Black Kang; Red-l Grey Feath Gree	mon Name en Wattle t Bursaria dust Wattle Templetonia ed Rice-flower non Rice-flower non Eutaxia berry Heath Buebell non Woodruff ing Saltbush non Raspwort le Spear-grass -anther Flax-lily aroo Grass eg Grass Tussock-grass er Spear-grass n Rock Fern Bindweed



#### **Recruitment:**

Continuous

#### **Organic Litter:**

20 % cover

#### Logs:

15 m/0.1 ha.

#### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Plantago lanceolata	Ribwort	high	low
LH	Salvia verbenaca	Wild Sage	high	high
LH	Carduus tenuiflorus	Winged Thistle	high	high
MH	Petrorhagia velutina	Velvety Pink	high	low
MH	<i>Trifolium angustifolium</i> var. <i>angustifolium</i>	Narrow-leaf Clover	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Parentucellia latifolia	Red Bartsia	high	low
MH	<i>Spergularia rubra</i> s.l.	Red Sand-spurrey	high	low
MH	<i>Trifolium campestre</i> var. <i>campestre</i>	Hop Clover	high	low
MH	Anagallis arvensis	Pimpernel	high	low
LNG	Avena fatua	Wild Oat	high	low
MTG	Romulea minutiflora	Small-flower Onion-grass	high	low
MTG	Bromus hordeaceus ssp. hordeaceus	Soft Brome	high	low
MTG	Lolium loliaceum	Stiff Rye-grass	high	low
MTG	Lolium perenne	Perennial Rye-grass	high	low
MTG	Ehrharta longiflora	Annual Veldt-grass	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MNG	Dactylis glomerata	Cocksfoot	high	high
MNG	Vulpia muralis	Wall Fescue	high	low
MNG	Vulpia myuros	Rat's-tail Fescue	high	low
MNG	Bromus rubens	Red Brome	high	low
MNG	Aira elegantissima	Delicate Hair-grass	high	low
MNG	Aira cupaniana	Quicksilver Grass	high	low

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Northern Inland Slopes bioregion

EVC 175\_62: Rainshadow 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	3	
Eucalyptus	SDD.		70 cm	15 / h		
Brachychito			50 cm	,		
Tree Canop	y Cover:					
%cover	Character	Species			Comme	on Name
15%	Eucalyptus a	lbens			White Bo	X
	Eucalyptus p	olyanthemos			Red Box	
	Eucalyptus n				Yellow B	
	Eucalyptus n	,			Red Strir	
	Brachychiton	populneus ssp. po	opulneus		Kurrajon	g
U. davatava						
Understore	<b>y:</b>			<b>.</b>		15
Life form	<b>-</b>		#	Spp	%Cover	LF code
Immature C			2		5%	IT
	Tree or Large Shr	UD	2		10%	T
Medium Shr			1		5%	MS
Small Shrub			1		1%	SS
Prostrate St	rud		2		5% 5%	PS LH
Large Herb Medium He	Ь		13		20%	MH
Small or Pro			3		20% 5%	SH
Large Tufte			1		1%	LTG
5	Small Tufted Grami	noid	15	5	40%	MTG
	Tiny Non-tufted Gram		3		5%	MNG
Bryophytes/			na		10%	BL
Diyophyces	Lichens		i i c	4	10 /0	DL
LF Code	Species typ	ical of at least	part of EVC	2 range	Cor	mmon Name
Т	Acacia implexa				Ligh	itwood
MS	, Acacia vernicifi	lua			Varr	nish Wattle
MS	Acacia rubida				Red	-stem Wattle
SS	Dillwynia ciner	<i>ascens</i> s.l.			Grey	y Parrot-pea
SS	Cheiranthera c	<i>yanea</i> var. <i>cyanea</i>	7			Finger-flower
PS	Astroloma hun	nifusum			Crar	nberry Heath
LH	Wahlenbergia	stricta			Tall	Bluebell
LH	Wahlenbergia	luteola			Bror	nze Bluebell
MH	Gonocarpus te	tragynus			Corr	nmon Raspwort
MH	Geranium sola	nderi s.l.			Aust	tral Cranesbill
SH	Cymbonotus p	reissianus			Aust	tral Bear's-ear
SH	Solenogyne do	ominii			Smo	ooth Solenogyne
SH	k Desmodium va	nrians			Slen	der Tick-trefoil
LTG	Juncus flavidus				Gold	d Rush
LTG	Austrostipa de					se Spear-grass
MTG	Bothriochloa n					-leg Grass
MTG	Dianella revolu					k-anther Flax-lily
MTG	Poa sieberiana					y Tussock-grass
MTG	Themeda trian					garoo Grass
MNG		<i>oides</i> var. <i>stipoide</i>	25			eping Grass
TTG	Isolepis margii					e Club-sedge
GF		eberi ssp. sieberi				row Rock-fern
SC	Glycine clande					ning Glycine
SC	Convolvulus el	<i>ubescens</i> spp. ago	].		Pink	Bindweed



#### **Recruitment:**

Continuous

#### **Organic Litter:**

20 % cover

#### Logs:

10 m/0.1 ha.

#### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Cicendia quadrangularis	Square Cicendia	high	low
MH	Hypochoeris glabra	Smooth Cat's-ear	high	low
MH	Trifolium dubium	Suckling Clover	high	low
MH	<i>Trifolium arvense</i> var. <i>arvense</i>	Hare's-foot Clover	high	low
MH	Petrorhagia velutina	Velvety Pink	high	low
MH	Trifolium subterraneum	Subterranean Clover	high	low
MH	Centaurium erythraea	Common Centaury	high	low
MH	Parentucellia latifolia	Red Bartsia	high	low
MH	<i>Trifolium angustifolium</i> var. <i>angustifolium</i>	Narrow-leaf Clover	high	low
MH	Moenchia erecta	Erect Chickweed	high	low
MH	Galium divaricatum	Slender Bedstraw	high	low
MH	Arctotheca calendula	Cape Weed	high	low
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	Briza maxima	Large Quaking-grass	high	low
MNG	Juncus capitatus	Capitate Rush	high	low
MNG	Holcus setosus	Annual Fog	high	low
MNG	Avena barbata	Bearded Oat	high	low
MNG	Aira cupaniana	Quicksilver Grass	high	low
MNG	Aira elegantissima	Delicate Hair-grass	high	low
MNG	Aira caryophyllea	Silvery Hair-grass	high	low
TTG	Cyperus tenellus	Tiny Flat-sedge	high	low

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Northern Inland Slopes bioregion

EVC 175\_63: Shrubby Granitic-outwash Grassy Woodland

#### **Description:**

A variable open eucalypt woodland to 15 m tall occurring on the lower slopes of granitic hills where the outwash intersects with the plains. It is restricted to free draining, deep sandy colluviums on gentle, lower slopes at altitudes of less than 300 m. The understorey includes a diverse ground layer of grasses and herbs and may include a suite of heathy shrubs more typical of sandy soils.

Large trees: Species Eucalyptus spp. Allocasuarina sp		<b>DBH(cm)</b> 70 cm 50 cm	<b>#/ha</b> 15 / ha		
Tree Canopy C	over:				
<b>%cover</b> 15%	Character Species Eucalyptus macrorhyncha Eucalyptus polyanthemos Eucalyptus melliodora Eucalyptus goniocalyx s.l. Allocasuarina luehmannii			Commo Red String Red Box Yellow Box Long-leaf Buloke	yybark x
	py Tree ee or Large Shrub	# <b>Sp</b>		<b>%Cover</b> 5% 10%	<b>LF code</b> IT T
	II Tufted Graminoid Non-tufted Graminoid imber	2 7 1 8 1 10 5 1 1 1 na na		5% 15% 1% 10% 5% 20% 10% 1% 1% 1% 10% 10%	MS SS PS MH LTG MTG MNG GF SC BL S/C

#### **Recruitment:**

Continuous

#### **Organic Litter:**

20 % cover

#### Logs:

15 m/0.1 ha.



### EVC 175\_63: Shrubby Granitic-outwash Grassy Woodland -Northern Inland Slopes bioregion

LF Code	Species typical of at least part of		ommon Name	
Т	Acacia implexa	5	ghtwood	
Т	Exocarpos cupressiformis		erry Ballart	
MS	Calytrix tetragona		ommon Fringe-myrtle	
MS	Brachyloma daphnoides		aphne Heath	
MS	Cassinia arcuata	Dre	ooping Cassinia	
SS	Pultenaea largiflorens		viggy Bush-pea	
SS	Dillwynia cinerascens	Gre	ey Parrot-pea	
SS	Acacia aspera	Ro	ough Wattle	
SS	Hibbertia obtusifolia	Gre	ey Guinea-flower	
PS	Acrotriche serrulata	Но	oney-pots	
MH	Chrysocephalum semipapposum	Clu	ustered Everlasting	
MH	Gonocarpus tetragynus	Co	mmon Raspwort	
MH	Geranium solanderi s.l.		stral Cranesbill	
MH	Drosera peltata ssp. auriculata	Ta	II Sundew	
SH	Drosera whittakeri ssp. aberrans	Sc	ented Sundew	
SH	Hydrocotyle laxiflora		inking Pennywort	
SH	Stuartina muelleri		oon Cudweed	
LTG	Dichelachne crinita	•	ng-hair Plume-grass	
MTG	Dianella revoluta s.l.		ack-anther Flax-lily	
MTG	Aristida ramosa		ine Wire-grass	
MTG	Austrostipa densiflora		ense Spear-grass	
MTG	Elymus scaber var. scaber		mmon Wheat-grass	
MNG	Microlaena stipoides var. stipoides		eeping Grass	
GF	Cheilanthes austrotenuifolia		een Rock Fern	
SC	Hardenbergia violacea		Irple Coral-pea	
50	naldenbergia violacea	14	i pie corar pea	
Weediness:				
weeniness:				
		Common Name	Invasive	Impact
LF Code	Typical Weed Species	Common Name	<b>Invasive</b>	Impact
LF Code	Typical Weed Species Hypericum perforatum	St John's-wort	high	high
LF Code LH LH	<b>Typical Weed Species</b> Hypericum perforatum Sonchus oleraceus	St John's-wort Common Sow-thistle	high high	high Iow
LH LH LH LH	<b>Typical Weed Species</b> Hypericum perforatum Sonchus oleraceus Plantago lanceolata	St John's-wort Common Sow-thistle Ribwort	high high high	high Iow Iow
LF Code LH LH LH LH LH	<b>Typical Weed Species</b> Hypericum perforatum Sonchus oleraceus Plantago lanceolata Salvia verbenaca	St John's-wort Common Sow-thistle Ribwort Wild Sage	high high high high	high Iow Iow high
LF Code LH LH LH LH LH LH	<b>Typical Weed Species</b> <i>Hypericum perforatum</i> <i>Sonchus oleraceus</i> <i>Plantago lanceolata</i> <i>Salvia verbenaca</i> <i>Carduus tenuiflorus</i>	St John's-wort Common Sow-thistle Ribwort Wild Sage Winged Thistle	high high high high high	high Iow Iow high high
LF Code LH LH LH LH LH LH LH MH	<b>Typical Weed Species</b> Hypericum perforatum Sonchus oleraceus Plantago lanceolata Salvia verbenaca Carduus tenuiflorus Petrorhagia velutina	St John's-wort Common Sow-thistle Ribwort Wild Sage Winged Thistle Velvety Pink	high high high high high high	high Iow Iow high high Iow
LF Code LH LH LH LH LH LH LH MH MH	<b>Typical Weed Species</b> Hypericum perforatum Sonchus oleraceus Plantago lanceolata Salvia verbenaca Carduus tenuiflorus Petrorhagia velutina Trifolium angustifolium var. angustifolium	St John's-wort Common Sow-thistle Ribwort Wild Sage Winged Thistle Velvety Pink Narrow-leaf Clover	high high high high high high high	high Iow Iow high high Iow Iow
LF Code LH LH LH LH LH LH MH MH MH	<b>Typical Weed Species</b> Hypericum perforatum Sonchus oleraceus Plantago lanceolata Salvia verbenaca Carduus tenuiflorus Petrorhagia velutina Trifolium angustifolium var. angustifolium Hypochoeris radicata	St John's-wort Common Sow-thistle Ribwort Wild Sage Winged Thistle Velvety Pink Narrow-leaf Clover Cat's Ear	high high high high high high high high	high low high high low low
LF Code LH LH LH LH LH LH H MH MH MH MH	<b>Typical Weed Species</b> Hypericum perforatum Sonchus oleraceus Plantago lanceolata Salvia verbenaca Carduus tenuiflorus Petrorhagia velutina Trifolium angustifolium var. angustifolium Hypochoeris radicata Parentucellia latifolia	St John's-wort Common Sow-thistle Ribwort Wild Sage Winged Thistle Velvety Pink Narrow-leaf Clover Cat's Ear Red Bartsia	high high high high high high high high	high Iow Iow high high Iow Iow Iow
LF Code LH LH LH LH LH LH H MH MH MH MH MH	<b>Typical Weed Species</b> Hypericum perforatum Sonchus oleraceus Plantago lanceolata Salvia verbenaca Carduus tenuiflorus Petrorhagia velutina Trifolium angustifolium var. angustifolium Hypochoeris radicata Parentucellia latifolia Spergularia rubra s.l.	St John's-wort Common Sow-thistle Ribwort Wild Sage Winged Thistle Velvety Pink Narrow-leaf Clover Cat's Ear Red Bartsia Red Sand-spurrey	high high high high high high high high	high low low high high low low low low
LF Code LH LH LH LH LH LH H MH MH MH MH MH MH	Typical Weed Species Hypericum perforatum Sonchus oleraceus Plantago lanceolata Salvia verbenaca Carduus tenuiflorus Petrorhagia velutina Trifolium angustifolium var. angustifolium Hypochoeris radicata Parentucellia latifolia Spergularia rubra s.l. Trifolium campestre var. campestre	St John's-wort Common Sow-thistle Ribwort Wild Sage Winged Thistle Velvety Pink Narrow-leaf Clover Cat's Ear Red Bartsia Red Sand-spurrey Hop Clover	high high high high high high high high	high low low high high low low low low low
LF Code LH LH LH LH LH LH H MH MH MH MH MH MH MH MH	<b>Typical Weed Species</b> Hypericum perforatum Sonchus oleraceus Plantago lanceolata Salvia verbenaca Carduus tenuiflorus Petrorhagia velutina Trifolium angustifolium var. angustifolium Hypochoeris radicata Parentucellia latifolia Spergularia rubra s.l. Trifolium campestre var. campestre Anagallis arvensis	St John's-wort Common Sow-thistle Ribwort Wild Sage Winged Thistle Velvety Pink Narrow-leaf Clover Cat's Ear Red Bartsia Red Sand-spurrey Hop Clover Pimpernel	high high high high high high high high	high low low high high low low low low low low
LF Code LH LH LH LH LH H MH MH MH MH MH MH MH MH LNG	Typical Weed Species Hypericum perforatum Sonchus oleraceus Plantago lanceolata Salvia verbenaca Carduus tenuiflorus Petrorhagia velutina Trifolium angustifolium var. angustifolium Hypochoeris radicata Parentucellia latifolia Spergularia rubra s.l. Trifolium campestre var. campestre Anagallis arvensis Avena fatua	St John's-wort Common Sow-thistle Ribwort Wild Sage Winged Thistle Velvety Pink Narrow-leaf Clover Cat's Ear Red Bartsia Red Sand-spurrey Hop Clover Pimpernel Wild Oat	high high high high high high high high	high low high high low low low low low low low low
LF Code LH LH LH LH LH H MH MH MH MH MH MH MH LNG MTG	<b>Typical Weed Species</b> Hypericum perforatum Sonchus oleraceus Plantago lanceolata Salvia verbenaca Carduus tenuiflorus Petrorhagia velutina Trifolium angustifolium var. angustifolium Hypochoeris radicata Parentucellia latifolia Spergularia rubra s.l. Trifolium campestre var. campestre Anagallis arvensis Avena fatua Anthoxanthum odoratum	St John's-wort Common Sow-thistle Ribwort Wild Sage Winged Thistle Velvety Pink Narrow-leaf Clover Cat's Ear Red Bartsia Red Sand-spurrey Hop Clover Pimpernel Wild Oat Sweet Vernal-grass	high high high high high high high high	high low high high low low low low low low low low low high
LF Code LH LH LH LH LH H MH MH MH MH MH MH MH LNG MTG MTG	<b>Typical Weed Species</b> Hypericum perforatum Sonchus oleraceus Plantago lanceolata Salvia verbenaca Carduus tenuiflorus Petrorhagia velutina Trifolium angustifolium var. angustifolium Hypochoeris radicata Parentucellia latifolia Spergularia rubra s.l. Trifolium campestre var. campestre Anagallis arvensis Avena fatua Anthoxanthum odoratum Romulea minutiflora	St John's-wort Common Sow-thistle Ribwort Wild Sage Winged Thistle Velvety Pink Narrow-leaf Clover Cat's Ear Red Bartsia Red Sand-spurrey Hop Clover Pimpernel Wild Oat Sweet Vernal-grass Small-flower Onion-grass	high high high high high high high high	high low high high low low low low low low low low low low
LF Code LH LH LH LH H MH MH MH MH MH MH MH LNG MTG MTG MTG	<b>Typical Weed Species</b> Hypericum perforatum Sonchus oleraceus Plantago lanceolata Salvia verbenaca Carduus tenuiflorus Petrorhagia velutina Trifolium angustifolium var. angustifolium Hypochoeris radicata Parentucellia latifolia Spergularia rubra s.l. Trifolium campestre var. campestre Anagallis arvensis Avena fatua Anthoxanthum odoratum Romulea minutiflora Bromus hordeaceus ssp. hordeaceus	St John's-wort Common Sow-thistle Ribwort Wild Sage Winged Thistle Velvety Pink Narrow-leaf Clover Cat's Ear Red Bartsia Red Bartsia Red Sand-spurrey Hop Clover Pimpernel Wild Oat Sweet Vernal-grass Small-flower Onion-grass Soft Brome	high high high high high high high high	high Iow high high Iow Iow Iow Iow Iow Iow Iow Iow Iow Iow
LF Code LH LH LH LH LH MH MH MH MH MH MH MH LNG MTG MTG MTG MTG	<b>Typical Weed Species</b> Hypericum perforatum Sonchus oleraceus Plantago lanceolata Salvia verbenaca Carduus tenuiflorus Petrorhagia velutina Trifolium angustifolium var. angustifolium Hypochoeris radicata Parentucellia latifolia Spergularia rubra s.l. Trifolium campestre var. campestre Anagallis arvensis Avena fatua Anthoxanthum odoratum Romulea minutiflora Bromus hordeaceus ssp. hordeaceus Lolium loliaceum	St John's-wort Common Sow-thistle Ribwort Wild Sage Winged Thistle Velvety Pink Narrow-leaf Clover Cat's Ear Red Bartsia Red Bartsia Red Sand-spurrey Hop Clover Pimpernel Wild Oat Sweet Vernal-grass Small-flower Onion-grass Soft Brome Stiff Rye-grass	high high high high high high high high	high Iow high high Iow Iow Iow Iow Iow Iow Iow Iow Iow Iow
LF Code LH LH LH LH LH MH MH MH MH MH MH MH LNG MTG MTG MTG MTG MTG	<b>Typical Weed Species</b> Hypericum perforatum Sonchus oleraceus Plantago lanceolata Salvia verbenaca Carduus tenuiflorus Petrorhagia velutina Trifolium angustifolium var. angustifolium Hypochoeris radicata Parentucellia latifolia Spergularia rubra s.l. Trifolium campestre var. campestre Anagallis arvensis Avena fatua Anthoxanthum odoratum Romulea minutiflora Bromus hordeaceus ssp. hordeaceus Lolium loliaceum Lolium perenne	St John's-wort Common Sow-thistle Ribwort Wild Sage Winged Thistle Velvety Pink Narrow-leaf Clover Cat's Ear Red Bartsia Red Bartsia Red Sand-spurrey Hop Clover Pimpernel Wild Oat Sweet Vernal-grass Small-flower Onion-grass Soft Brome Stiff Rye-grass Perennial Rye-grass	high high high high high high high high	high Iow high Iow Iow Iow Iow Iow Iow Iow Iow Iow Iow
LF Code LH LH LH LH LH MH MH MH MH MH MH MH MH MH MH MH MH CNG MTG MTG MTG MTG MTG MTG MTG	<b>Typical Weed Species</b> Hypericum perforatum Sonchus oleraceus Plantago lanceolata Salvia verbenaca Carduus tenuiflorus Petrorhagia velutina Trifolium angustifolium var. angustifolium Hypochoeris radicata Parentucellia latifolia Spergularia rubra s.l. Trifolium campestre var. campestre Anagallis arvensis Avena fatua Anthoxanthum odoratum Romulea minutiflora Bromus hordeaceus ssp. hordeaceus Lolium loliaceum Lolium perenne Ehrharta longiflora	St John's-wort Common Sow-thistle Ribwort Wild Sage Winged Thistle Velvety Pink Narrow-leaf Clover Cat's Ear Red Bartsia Red Sand-spurrey Hop Clover Pimpernel Wild Oat Sweet Vernal-grass Small-flower Onion-grass Soft Brome Stiff Rye-grass Perennial Rye-grass Annual Veldt-grass	high high high high high high high high	high Iow Iow high Iow Iow Iow Iow Iow Iow Iow Iow Iow Iow
LF Code LH LH LH LH LH MH MH MH MH MH MH MH MH MH MH MTG MTG MTG MTG MTG MTG MTG MTG	Typical Weed SpeciesHypericum perforatumSonchus oleraceusPlantago lanceolataSalvia verbenacaCarduus tenuiflorusPetrorhagia velutinaTrifolium angustifolium var. angustifoliumHypochoeris radicataParentucellia latifoliaSpergularia rubra s.l.Trifolium campestre var. campestreAnagallis arvensisAvena fatuaAnthoxanthum odoratumRomulea minutifloraBromus hordeaceus ssp. hordeaceusLolium loliaceumLolium perenneEhrharta longifloraBriza maxima	St John's-wort Common Sow-thistle Ribwort Wild Sage Winged Thistle Velvety Pink Narrow-leaf Clover Cat's Ear Red Bartsia Red Sand-spurrey Hop Clover Pimpernel Wild Oat Sweet Vernal-grass Small-flower Onion-grass Soft Brome Stiff Rye-grass Perennial Rye-grass Annual Veldt-grass Large Quaking-grass	high high high high high high high high	high low high high low low low low low low low low low low
LF Code LH LH LH LH LH MH MH MH MH MH MH MH MH MH MH MTG MTG MTG MTG MTG MTG MTG MTG MTG MTG	Typical Weed SpeciesHypericum perforatumSonchus oleraceusPlantago lanceolataSalvia verbenacaCarduus tenuiflorusPetrorhagia velutinaTrifolium angustifolium var. angustifoliumHypochoeris radicataParentucellia latifoliaSpergularia rubra s.l.Trifolium campestre var. campestreAnagallis arvensisAvena fatuaAnthoxanthum odoratumRomulea minutifloraBromus hordeaceus ssp. hordeaceusLolium loliaceumLolium perenneEhrharta longifloraBriza maximaDactylis glomerata	St John's-wort Common Sow-thistle Ribwort Wild Sage Winged Thistle Velvety Pink Narrow-leaf Clover Cat's Ear Red Bartsia Red Sand-spurrey Hop Clover Pimpernel Wild Oat Sweet Vernal-grass Small-flower Onion-grass Soft Brome Stiff Rye-grass Perennial Rye-grass Annual Veldt-grass Large Quaking-grass Cocksfoot	high high high high high high high high	high Iow Iow high Iow Iow Iow Iow Iow Iow Iow Iow Iow Iow
LF Code LH LH LH LH LH MH MH MH MH MH MH MH MH MTG MTG MTG MTG MTG MTG MTG MTG MTG MTG	Typical Weed SpeciesHypericum perforatumSonchus oleraceusPlantago lanceolataSalvia verbenacaCarduus tenuiflorusPetrorhagia velutinaTrifolium angustifolium var. angustifoliumHypochoeris radicataParentucellia latifoliaSpergularia rubra s.l.Trifolium campestre var. campestreAnagallis arvensisAvena fatuaAnthoxanthum odoratumRomulea minutifloraBromus hordeaceus ssp. hordeaceusLolium loliaceumLolium perenneEhrharta longifloraBriza maximaDactylis glomerataVulpia muralis	St John's-wort Common Sow-thistle Ribwort Wild Sage Winged Thistle Velvety Pink Narrow-leaf Clover Cat's Ear Red Bartsia Red Sand-spurrey Hop Clover Pimpernel Wild Oat Sweet Vernal-grass Small-flower Onion-grass Soft Brome Stiff Rye-grass Perennial Rye-grass Annual Veldt-grass Large Quaking-grass Cocksfoot Wall Fescue	high high high high high high high high	high low high high low low low low low low low low low low
LF Code LH LH LH LH H MH MH MH MH MH MH MH MH MTG MTG MTG MTG MTG MTG MTG MTG MTG MTG	Typical Weed SpeciesHypericum perforatumSonchus oleraceusPlantago lanceolataSalvia verbenacaCarduus tenuiflorusPetrorhagia velutinaTrifolium angustifolium var. angustifoliumHypochoeris radicataParentucellia latifoliaSpergularia rubra s.l.Trifolium campestre var. campestreAnagallis arvensisAvena fatuaAnthoxanthum odoratumRomulea minutifloraBromus hordeaceus ssp. hordeaceusLolium perenneEhrharta longifloraBriza maximaDactylis glomerataVulpia muralisVulpia myuros	St John's-wort Common Sow-thistle Ribwort Wild Sage Winged Thistle Velvety Pink Narrow-leaf Clover Cat's Ear Red Bartsia Red Sand-spurrey Hop Clover Pimpernel Wild Oat Sweet Vernal-grass Small-flower Onion-grass Soft Brome Stiff Rye-grass Perennial Rye-grass Annual Veldt-grass Large Quaking-grass Cocksfoot Wall Fescue Rat's-tail Fescue	high high high high high high high high	high low high high low low low low low low low low low low
LF Code LH LH LH LH LH MH MH MH MH MH MH MH MH MTG MTG MTG MTG MTG MTG MTG MTG MTG MTG	Typical Weed SpeciesHypericum perforatumSonchus oleraceusPlantago lanceolataSalvia verbenacaCarduus tenuiflorusPetrorhagia velutinaTrifolium angustifolium var. angustifoliumHypochoeris radicataParentucellia latifoliaSpergularia rubra s.l.Trifolium campestre var. campestreAnagallis arvensisAvena fatuaAnthoxanthum odoratumRomulea minutifloraBromus hordeaceus ssp. hordeaceusLolium perenneEhrharta longifloraBriza maximaDactylis glomerataVulpia muralisVulpia myurosBromus rubens	St John's-wort Common Sow-thistle Ribwort Wild Sage Winged Thistle Velvety Pink Narrow-leaf Clover Cat's Ear Red Bartsia Red Sand-spurrey Hop Clover Pimpernel Wild Oat Sweet Vernal-grass Small-flower Onion-grass Soft Brome Stiff Rye-grass Perennial Rye-grass Annual Veldt-grass Large Quaking-grass Cocksfoot Wall Fescue Rat's-tail Fescue Red Brome	high high high high high high high high	high low high high low low low low low low low low low low
LF Code LH LH LH LH H MH MH MH MH MH MH MH MH MTG MTG MTG MTG MTG MTG MTG MTG MTG MTG	Typical Weed SpeciesHypericum perforatumSonchus oleraceusPlantago lanceolataSalvia verbenacaCarduus tenuiflorusPetrorhagia velutinaTrifolium angustifolium var. angustifoliumHypochoeris radicataParentucellia latifoliaSpergularia rubra s.l.Trifolium campestre var. campestreAnagallis arvensisAvena fatuaAnthoxanthum odoratumRomulea minutifloraBromus hordeaceus ssp. hordeaceusLolium perenneEhrharta longifloraBriza maximaDactylis glomerataVulpia muralisVulpia myuros	St John's-wort Common Sow-thistle Ribwort Wild Sage Winged Thistle Velvety Pink Narrow-leaf Clover Cat's Ear Red Bartsia Red Sand-spurrey Hop Clover Pimpernel Wild Oat Sweet Vernal-grass Small-flower Onion-grass Soft Brome Stiff Rye-grass Perennial Rye-grass Annual Veldt-grass Large Quaking-grass Cocksfoot Wall Fescue Rat's-tail Fescue	high high high high high high high high	high low high high low low low low low low low low low low

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Northern Inland Slopes bioregion

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

#### Description:

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

Large trees: Species Eucalyptus spp Allocasuarina I		<b>DBH(cm)</b> 70 cm 40 cm	<b>#/ha</b> 10 / ha		
Tree Canopy (	Cover:				
<b>%cover</b> 15%	<b>Character Species</b> <i>Eucalyptus camaldulensis</i> <i>Eucalyptus microcarpa</i> <i>Allocasuarina luehmannii</i>			<b>Commo</b> River Red Grey Box Buloke	<b>n Name</b> -gum
Understorey:					
Life form		#Spj	p d	%Cover	LF code
Immature Can	opy Tree			5%	IT
Medium Shrub		2		10%	MS
Large Herb		2	Ę	5%	LH
Medium Herb		9	-	15%	MH
Small or Prostr	ate Herb	3	-	15%	SH
Large Tufted G	Graminoid	1		1%	LTG
Medium to Sma	all Tufted Graminoid	8	2	20%	MTG
Medium to Ting	y Non-tufted Graminoid	2	Ę	5%	MNG
Bryophytes/Lic	hens	na		10%	BL
Soil Crust		na		10%	S/C
Total under	storey projective foliage c	over		90%	
LF Code	Species typical of at least	nart of EVC ra	nae	Com	nmon Name
MS	Acacia pycnantha		nge		en Wattle
MS	Acacia paradoxa				e Wattle
PS	Astroloma humifusum				berry Heath
LH	Senecio tenuiflorus				ler Fireweed
LH	Senecio quadridentatus				n Fireweed
MH	Veronica plebeia				ng Speedwell
MH	Calotis anthemoides				eaf Burr-daisy
MH	Brachyscome basaltica var. grac	rilis			dland Swamp-daisy
MH	Vittadinia cuneata				View Holland-daisy
SH	Cymbonotus preissianus			-	al Bear's-ear
SH	Myriophyllum integrifolium				Water-milfoil
SH	Phyllangium divergens			Wiry	Mitrewort
LTG	Juncus pallidus			Pale	Rush
LTG	Deyeuxia quadriseta			Reed	Bent-grass
MTG	Lomandra filiformis				le Mat-rush
MTG	Isolepis platycarpa			Broad	d-fruit Club-sedge
MTG	Pentapogon quadrifidus			Five-	awned Spear-grass
MTG	Burchardia umbellata			Milkn	1 0
MNG	Microlaena stipoides var. stipoid	les		Wee	oing Grass
TTG	Centrolepis fascicularis				ed Centrolepis



#### **Recruitment:**

Continuous

#### **Organic Litter:**

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

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Northern Inland Slopes bioregion

### EVC 291: Cane Grass Wetland

#### **Description:**

Open-grassland, typically very species-poor except on outer verges, often with monospecific (or virtually so) cane-grass dominated centres. Occur on alluvial plains in shallow (~1 m deep) depressions, on very heavy grey clay soils, prone to turbidity when inundated (4-6 months) and extreme cracking when dry.

#### Life Forms:

Life form	#Spp	%Cover	LF code	
Small or Prostrate Herb	2	10%	SH	
Medium to Tiny Non-tufted Graminoid	2	50%	MNG	
Bryophytes/Lichens	na	10%	BL	
Total understorey projective foliage cover		<b>70%</b>		

LF Code	Species typical of at least part of EVC range	Common Name
SH	Lemna disperma	Common Duckweed
SH	Azolla filiculoides	Pacific Azolla
MNG	Eragrostis infecunda	Southern Cane-grass
MNG	Eleocharis acuta	Common Spike-sedge

#### **Recruitment:**

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

#### **Organic Litter:**

10% cover

#### Weediness:

There are no consistent weeds in this EVC.



## EVC 291: Cane Grass Wetland –Northern Inland Slopes bioregion

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Northern Inland Slopes bioregion

### EVC 292: Red Gum Swamp

#### Description:

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

Large trees: Species Eucalyptus spp	).	<b>DBH(cm)</b> 80 cm	<b>#/ha</b> 10 / ha	
Tree Canopy %cover 10%	Cover: Character Species Eucalyptus camaldulensis			<b>mmon Name</b> er Red-gum
Medium to Tin Bryophytes/Lic	Graminoid all Tufted Graminoid y Non-tufted Graminoid	#Sp 2 1 2 3 2 na over	5% 5% 30% 1% 10% 15% 10% 10% 80%	IT LH MH LTG MTG MNG BL
LF Code LH LH MH MH LTG MTG MTG MNG Recruitment:	Species typical of at least Myriophyllum crispatum Villarsia reniformis Alternanthera denticulata s.l. Ludwigia peploides ssp. montevi Carex appressa Lachnagrostis filiformis var. filifo Juncus holoschoenus Eleocharis acuta	idensis	ange	<b>Common Name</b> Upright Water-milfoil Running Marsh-flower Lesser Joyweed Clove-strip Tall Sedge Common Blown-grass Joint-leaf Rush Common Spike-sedge
Episodic/Flood Organic Litter 10 % cover	. Desirable period between distur	bances is 5 years.		
Logs: 15 m/0.1 ha.				



### EVC 292: Red Gum Swamp - Northern Inland Slopes bioregion

Weediness:		
LF Code	Typical Weed Species	Common Nam
LH	Rumex conglomeratus	Clustered Dock
LH	Sonchus oleraceus	Common Sow-this
LH	Rumex crispus	Curled Dock
LH	Cirsium vulgare	Spear Thistle
MH	Trifolium subterraneum	Subterranean Clov
MH	Acetosella vulgaris	Sheep Sorrel
MH	Hypochoeris radicata	Cat's Ear
SH	Callitriche hamulata	Thread Water-sta
LTG	Phalaris aquatica	Toowoomba Cana
LNG	Holcus lanatus	Yorkshire Fog
MTG	Paspalum dilatatum	Paspalum
MNG	<i>Vulpia</i> spp.	Fescue

mmon Name	Invasive	Impact
stered Dock	high	low
nmon Sow-thistle	high	low
ed Dock	high	low
ar Thistle	high	low
terranean Clover	high	low
ep Sorrel	high	low
s Ear	high	low
ead Water-starwort	high	low
woomba Canary-grass	high	high
kshire Fog	high	high
balum	high	high
cue	high	low

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Northern Inland Slopes bioregion

EVC 295: Riverine Grassy Woodland

#### **Description:**

Occurs on the floodplain of major rivers, in a slightly elevated position where floods are infrequent, on deposited silts and sands, forming fertile alluvial soils. River Red Gum woodland to 20 m tall with a groundlayer dominated by graminoids. Occasional tall shrubs present.

Large trees: Species Eucalyptus spp		<b>DBH(cm)</b> 80 cm	<b>#/ha</b> 15 / ha		
Tree Canopy C					
%cover	Character Species		Comr	non Name	
20%	Eucalyptus camaldulensis		River F	Red-gum	
Understeren					
Understorey:		#C	0/ 6	www.lFaada	
Life form	-	#Spp			
Immature Cano			5%	IT	
	ee or Large Shrub	1	5%	Т	
Small Shrub		1	1%	SS	
Medium Herb		2	1%	MH	
Small or Prostra		2	1%	SH	
Large Tufted G		2	5%	LTG	
	all Tufted Graminoid	5	20%	MTG	
Medium to Tiny	Non-tufted Graminoid	2	20%	MNG	
Bryophytes/Lich		na	10%	BL	
Total unders	storey projective foliage c	over	65%		
LF Code	Species typical of at least	part of FVC rai	nae	Common Name	
T	Acacia dealbata	. part 01 = 1 0 . a.		Silver Wattle	
MH	Sida corrugata			Variable Sida	
MH	Oxalis perennans			Grassland Wood-so	rrel
SH	Chamaesyce drummondii			Flat Spurge	
SH	Azolla filiculoides			Pacific Azolla	
LTG	Austrostipa gibbosa			Spurred Spear-gras	c
LTG	Carex tereticaulis			Hollow Sedge	5
MTG	Chloris truncata			Windmill Grass	
MTG	Themeda triandra			Kangaroo Grass	
MTG	Aristida behriana			Brush Wire-grass	
MTG				5	200
	Elymus scaber var. scaber			Common Wheat-gra	d55
MNG	Pseudoraphis spinescens Eleocharis acuta			Spiny Mud-grass	
MNG	Eleocharis acula			Common Spike-sed	ge
Recruitment: Continuous					
Organic Litter 10 % cover	:				
<b>Logs:</b> 20 m/0.1 ha.					
Weediness:					
	Typical Weed Species	Common N	200	Invasive	Imnoch
			aille		Impact
LH	Cirsium vulgare	Spear Thistle	6×2.00	high	high
MTG	Lolium rigidum	Wimmera Rye	-yrass	high	low



## EVC 295: Riverine Grassy Woodland – Northern Inland Slopes bioregion

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## EVC/Bioregion Benchmark for Vegetation Quality Assessment Northern Inland Slopes bioregion

## EVC 803: Plains Woodland (syn. Riverina Plains Grassy Woodland)

#### **Description:**

An open, eucalypt woodland to 15 m tall occurring on a number of geologies and soil types. Occupies fertile clays and clay loam soils on flat or gently undulating plains at low elevations in areas with <600 mm annual rainfall. The understorey consists of a few sparse shrubs over a species-rich grassy and herbaceous ground layer and chenopods are often present.

Large trees: Species Eucalyptus sp Allocasuarina		<b>DBH(cm)</b> 70 cm 40 cm	<b>#/ha</b> 15 / ha		
Tree Canopy %cover 15%	Cover: Species typical of at least Eucalyptus microcarpa Eucalyptus melliodora Eucalyptus camaldulensis Eucalyptus albens Allocasuarina luehmannii	part of EVC ra	nge	Grey Yellov	v Box Red Gum e Box
	nopy Tree p rate Herb Graminoid nall Tufted Graminoid ny Non-tufted Graminoid	# <b>Sp</b> 2 1 1 11 2 1 15 2 na	p %C 5% 1% 1% 5% 25% 5% 45% 5% 10%	over	LF code IT MS SS LH MH SH LTG MTG MNG BL
LF Code MS MS MS SS SS SS LH LH LH MH MH MH MH SH SH SH SH SH SH SH SH SH SH SH SH SH	Character Species Acacia montana Acacia acinacea s.l. Acacia pycnantha Pittosporum angustifolium Pimelea curviflora s.l. Eutaxia microphylla var. microph Enchylaena tomentosa var. tome Ajuga australis Senecio quadridentatus Calocephalus citreus Maireana enchylaenoides Einadia hastata Einadia nutans ssp. nutans Crassula sieberiana Actinobole uliginosum Oxalis perennans Calotis hispidula Austrostipa aristiglumis Austrodanthonia caespitosa Dianella revoluta s.l. Austrostipa scabra Enteropogon acicularis			Mallee Gold- Golde Weep Curve Comn Ruby Austra Cotto Lemo Wingl Saloo Nodd Siebe Flann Grass Hairy Plump Comn Black Roug	mon Name e Wattle dust Wattle in Wattle in Wattle in Wattle did Rice-flower non Eutaxia Saltbush al Bugle n Fireweed n Beauty-heads ess Bluebush p ing Saltbush r Crassula el Cudweed land Wood-sorrel Burr-daisy o Spear-grass non Wallaby-grass -anther Flax-lily h Spear-grass r Grass



#### **Recruitment:**

Continuous

#### **Organic Litter:**

10 % cover

#### Logs:

10 m/0.1 ha.

Weediness				
LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Lycium ferocissimum	Boxthorn	low	high
LH	Brassica tournefortii	Mediterranean Turnip	high	high
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	<i>Opuntia</i> spp	Prickly Pear	low	high
MH	Gazania linearis	Gazania	high	high
MH	Spergularia rubra s.l.	Red Sand-spurrey	high	low
MH	Silene apetala var. apetala	Sand Catchfly	high	low
MH	Silene longicaulis	Portuguese Catchfly	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	<i>Trifolium angustifolium</i> var. <i>angustifolium</i>	Narrow-leaf Clover	high	low
MH	Arctotheca calendula	Cape Weed	high	low
MH	<i>Trifolium campestre</i> var. <i>campestre</i>	Hop Clover	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	Hypochoeris glabra	Smooth Cat's-ear	high	low
MH	Trifolium dubium	Suckling Clover	high	low
SH	Trifolium glomeratum	Cluster Clover	low	low
SH	Medicago minima	Little Medic	high	low
LTG	Phalaris aquatica	Toowoomba Canary-grass	high	high
MTG	Lolium rigidum	Wimmera Rye-grass	low	low
MTG	Schismus barbatus	Arabian Grass	high	low
MTG	Poa bulbosa	Bulbous Meadow-grass	high	high
MTG	Pentaschistis airoides subsp. airoides	False Hair-grass	high	high
MTG	Romulea rosea	Onion Grass	high	high
MNG	Bromus rubens	Red Brome	high	high
MNG	Vulpia myuros	Rat's-tail Fescue	high	low
MNG	Romulea rosea	Onion Grass	high	low
MNG	Briza minor	Lesser Quaking-grass	high	low
MNG	Briza maxima	Large Quaking-grass	high	low
MNG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MNG	Aira elegantissima	Delicate Hair-grass	high	low
MNG	Juncus capitatus	Capitate Rush	high	low
SC	Asparagus asparagoides	Bridal Creeper	high	high

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Northern Inland Slopes bioregion

EVC 815: Riverine Swampy Woodland

#### **Description:**

Eucalypt woodland to 15 m tall above a grassy to sedgy – herbaceous ground layer, with species indicative of periodic waterlogging. Occupies areas subject to shallow inundation only from higher-level flooding on riverine flood plain. Soils are typically heavy, cracking mottled grey-brown clays/clay-loams and water-retentive, often with a gilgai profile which can be wet during winter.

Large tre	es:				
Species			#/ha		
		DBH(cm)	#/ha		
	us camaldulensis	70 cm	15 / ha		
Eucalypti	us largiflorens	50 cm			
Tree Can	opy Cover:				
%cove			Con	nmon Name	
20%	Eucalyptus camaldulensi	ζς.		<sup>r</sup> Red-gum	
2070			NIV CI	Red guill	
Understo	rey:				
Life for		#Sp	p %Cov	ver LF code	
	e Canopy Tree		5%		
Large He		2	5%	LH	
Medium I		3	10%	MH	
		1	10% 5%	SH	
	Prostrate Herb		5% 10%	SH I TG	
	fted Graminoid	3		=	
	to Small Tufted Graminoid	2	10%	MTG	
	o Tiny Non-tufted Graminoid	3	20%	MNG	
Total u	nderstorey projective folia	age cover	65%		
LF Code	Species typical of at	least part of EVC ra	<b>n</b> ao	Common Nam	•
LF COUE	Wahlenbergia fluminalis	least part of EVC ra		River Bluebell	e
LH	Brachyscome basaltica val				dalar.
				Woodland Swamp	-uaisy
MH	Marsilea drummondii			Common Nardoo	
SH	Lobelia concolor			Poison Pratia	A.7. 11. 1
LTG	Amphibromus nervosus			Common Swamp \	/vallaby-grass
LTG	Carex tereticaulis			Rush Sedge	
MTG	Austrodanthonia duttoniar	าล		Brown-back Walla	
MNG	Eleocharis acuta			Common Spike-se	
MNG	Eleocharis pusilla			Small Spike-sedge	
Recruitm	<b>ent:</b> Flood. Desirable period between	disturbances is 5 years.			
_p.00010/					
Organic L	itter:				
10% cov	er				
Logs:					
10 m/0.1	ha.				
Weedines					
		Common Norma		<b>T</b>	<b>T</b>
	e Typical Weed Species	Common Name		Invasive	Impact
LH	Cirsium vulgare	Spear Thistle		high	high
MH	Hypochoeris radicata	Cat's Ear		high	low
LNG	Avena fatua	Wild Oat		high	low
MTG	Vulpia bromoides	Squirrel-tail Fescue		high	low
MTG	Critesion hystrix	Mediterranean Barley		high	low
MTG	Briza minor	Lesser Quaking-gras	5	high	low



## EVC 815: Riverine Swampy Woodland – Northern Inland Slopes bioregion

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Northern Inland Slopes bioregion

EVC 823: Lignum Swampy Woodland

#### Description:

Understorey dominated by Lignum, typically of robust character and relatively dense (at least in patches), in association with a low Eucalypt and/or Acacia woodland to 15 m tall. The ground layer includes a component of obligate wetland flora that is able to persist even if dormant over dry periods.

Large trees: Species Eucalyptus largin Eucalyptus cama	aldulensis	<b>DBH(cm)</b> 50cm 70cm	<b>#/ha</b> 15/ha		
Tree Canopy Co				0	
<b>% cover</b> 20%	Character Species Eucalyptus largiflorens			Commo Black Box	
2078	Eucalyptus camaldulensis			River Red	
	51				
Understorey:		"•		o <b>o</b>	
Life form	-	#Spp	2	%Cover	LF code
Immature Canop	by Tree	2		5%	IT
Medium Shrub Small Shrub		2		30% 5%	MS SS
		2		5% 1%	SS LH
Large Herb Medium Herb*		2 8		10%	цн МН
Small or Prostrat	ta Harh*	4		10%	SH
	I Tufted Graminoid*	2		5%	MTG
Large Non-tufted		1		5%	LNG
	Non-tufted Graminoid	3		15%	MNG
Soil Crust		na		10%	S/C
* Largely seasonal life form		na		1070	5/0
	torey projective foliage c	over		70%	
				-	
	Species typical of at least	part of EVC ra	nge	••••	nmon Name
	Muehlenbeckia florulenta			0	led Lignum
	Chenopodium nitrariaceum				Goosefoot
	Sclerolaena muricata				spined Bassia
	Rumex spp.			Dock	
	Marsilea drummondii				non Nardoo
	Brachyscome ciliaris				ble Daisy
	Euchiton sphaericus				al Cudweed
	Ranunculus spp.			Butte	
	Setaria jubiflora				ego Summer-grass
	Austrodanthonia duttoniana				n-back Wallaby-grass
	Eragrostis australasica				Grass
	Eragrostis infecunda				n Cane grass
	Eleocharis acuta				non Spike-sedge
MNG A	Eleocharis pusilla			Small	Spike-sedge



### EVC 823: Lignum Swampy Woodland -Northern Inland Slopes bioregion

#### Recruitment:

Continuous

#### **Organic Litter:**

10 % cover

#### Logs:

10m/0.1 ha.

#### Weediness:

LF Code

SH

**Typical Weed Species** Phyla canescens

**Common Name** Lippia

Invasive high

Impact high

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Northern Inland Slopes bioregion

## EVC 826: Plains Savannah

#### **Description:**

A structurally diverse vegetation unit which includes 'grassy openings' of a few to many hundreds of hectares, with a variable tree density ranging from a very sparse savannah to woodland. The relative absence of eucalypts is particularly characteristic, with *Allocasuarina luehmannii* and perhaps *Callitris gracilis* subsp. *murrayensis* to 10 m tall being the dominant trees. Widespread on the northern plains.

<sup>+</sup> woodland <u>only</u> components (ignore when assessing grassland areas and standardise final score as appropriate)

	: a luehmannii ilis ssp. murrayensis	<b>DBH(cm)</b> 40 cm	<b>#/ha</b> 5/ha	
Tree Canopy % cover 10%	y Cover <sup>+</sup> : Character Species Allocasuarina luehmannii Callitris gracilis ssp. murrayensis		Buloke	n Name ypress-pine
Medium to S	anopy Tree <sup>+</sup> b* strate Herb* I Graminoid ufted Graminoid mall Tufted Graminoid 'iny Non-tufted Graminoid* Lichens	<b># Spp</b> 2 3 6 3 1 1 5 2 na na	%Cover 5% 5% 20% 10% 5% 5% 35% 5% 10% 25%	LF code IT SS LH MH SH LTG LNG MTG MNG BL S/C
MS SS SS SS LH LH LH LH HH MH MH MH SH SH SH SH SH SH LTG LTG LTG MTG MTG MTG	Species typical of at least part Acacia pendula Acacia oswaldii Sclerolaena napiformis Sclerolaena diacantha Maireana decalvans Pimelea curviflora s.s. Ptilotus exaltatus Eryngium ovinum Calocephalus citreus Arthropodium fimbriatum Calotis scabiosifolia Goodenia pinnatifida Sida corrugata Ptilotus macrocephalus Maireana pentagona Chamaesyce drummondii Pogonolepis muelleriana Convolvulus erubescens spp. agg. Austrostipa blackii Austrostipa gibbosa Austrostipa scabra Austrostipa nodosa Whalleya proluta Austrodanthonia duttoniana	of EVC range	Boree Umbrell Turnip ( Grey Co Black Co Curved Mulla M Blue De Lemon Nodding Rough F Cut-leaf Variable Feather Hairy Bl Flat Spu Stiff Cu Pink Bin Crested Spurred Plump S Rough S Knotty S	vil Beauty-heads Chocolate-lily Burr-daisy Goodenia Sida Heads uebush urge p-flower dweed Spear-grass Spear-grass Spear-grass Spear-grass Spear-grass



Invasive

high

Impact

high

low

low

high

high

high

high

high

high

high

low

low

high

high

low

high

high

high

low

low

high

low

high

high

high

high

high

high

high

high

high

low

high

high

high

high

high

high

low

#### **Recruitment:**

Continuous

#### **Organic Litter:**

5% cover

#### Logs<sup>+</sup>: 5 m/0.1 ha. Weediness: LF Code **Typical Weed Species Common Name** MS Lycium ferocissimum Boxthorn LH Helminthotheca echioides Ox-tongue Common Peppercress LH Lepidium africanum LH Salvia verbenaca Wild Sage LH Echium plantagineum Patterson's curse LH Sisymbrium irio London Rocket Marrubium vulgare IΗ Horehound LNG Avena fatua Wild Oat MH Limonium sinuatum Notch-leaf Sea-lavender MH Arctotheca calendula Cape Weed Smooth Cat's-ear MH Hypochoeris glabra MH Hypochoeris radicata Cat's Ear MH Oxalis pes-caprae Soursob Buck's-horn Plantain MH Plantago coronopus MH Spergularia rubra s.l. Red Sand-spurrey MH Narrow-leaf Clover Trifolium angustifolium var. angustifolium MH Trifolium arvense var. arvense Hare's-foot Clover Trifolium campestre var. campestre MH Hop Clover MH Trifolium striatum **Knotted Clover** MH Trifolium subterraneum Subterranean Clover Hedypnois cretica Cretan Hedypnois MH **Quicksilver Grass** MNG Aira cupaniana MNG Avena barbata Bearded Oat MNG Brachypodium distachyon False Brome MNG Capitate Rush Juncus capitatus MNG Vulpia muralis Wall Fescue MNG Vulpia myuros Rat's-tail Fescue MTG Great Brome Bromus diandrus MTG Critesion hystrix Mediterranean Barley-grass MTG Critesion murinum Barley-grass MTG Lolium rigidum Wimmera Rye-grass MTG Pentaschistis airoides ssp. airoides False Hair-grass MTG Poa bulbosa **Bulbous Meadow-grass** Small-flower Onion-grass MTG Romulea minutiflora MTG Romulea rosea **Onion Grass** MTG Vulpia bromoides Squirrel-tail Fescue Little Medic SH Medicago minima

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Medicago polymorpha

Trifolium glomeratum

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Burr Medic

Cluster Clover

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Northern Inland Slopes Bioregion

## EVC 826\_61: Treed Plains Savannah

#### **Description:**

A structurally diverse vegetation unit which includes 'grassy openings' of a few to many hundreds of hectares, with a variable tree density ranging from a very sparse savannah to woodland. The relative absence of eucalypts is particularly characteristic, with Allocasuarina luehmannii and perhaps Callitris gracilis subsp. murrayensis to 10 m tall being the dominant trees. Widespread on the northern plains.

#### Large Trees:

Species		DBH(cm)		
Allocasuarina luehmannii			5 / ha	
ilis subsp. murrayensis	0 cm			
y Cover:				
Character Species			Common I	Name
Allocasuarina luehmannii			Buloke	
Callitris gracilis subsp. murrayensis			Slender Cypro	ess-pine
y:				
		#Spp	%Cover	LF Code
nopy Tree			5%	IT
		2	5%	SS
		3	5%	LH
o*		6	20%	MH
strate Herb*		3	10%	SH
Graminoid		1	5%	LTG
ufted Graminoid		1	5%	LNG
mall Tufted Graminoid		5	35%	MTG
iny Non-Tufted Graminoid*		2	5%	MNG
ichens			10%	BL
			25%	S/C
	a luehmannii ilis subsp. murrayensis <b>y Cover:</b> <b>Character Species</b> Allocasuarina luehmannii	DBH(cm) 40 cm 0 cm 0 cm 0 cm y Cover: Character Species Allocasuarina luehmannii Callitris gracilis subsp. murrayensis dilitris gracilis subsp. murrayensis y:	DBH(cm)a luehmannii40 cm40 cm0 cmy Cover:vCharacter SpeciesvAllocasuarina luehmannii Callitris gracilis subsp. murrayensisvy:#Sppy:2anopy Tree2anopy Tree3o*6strate Herb*3anoinoid1ufted Graminoid1mall Tufted Graminoid5iny Non-Tufted Graminoid*2	DBH(cm)#/ha40 cm5 / hailis subsp. murrayensis0 cmY Cover: Character Species Allocasuarina luehmannii Callitris gracilis subsp. murrayensisCommon IAllocasuarina luehmannii Callitris gracilis subsp. murrayensisBuloke Slender Cyprey:*5%y:25%y:25%y:310%y:10%5%y:10%5%y:10%5%y:10%5%y:10%y:10%5%y:10%y:10%y:10%y:10%y:10%y:10%y:10%y:10%y:10%y:10%y:10%y:10%y:10%y:10%y:10%y:10%y:10%

\*Largely seasonal lifeform



## EVC 826\_61: Treed Plains Savannah

LF Code		Species typical of at least part of EVC range	Common Name
SS		Maireana decalvans	Black Cotton-bush
SS		Pimelea curviflora s.s.	Curved Rice-flower
SS		Sclerolaena diacantha	Grey Copperburr
SS	Еe	Sclerolaena napiformis	Turnip Copperburr
LH		Arthropodium fimbriatum	Nodding Chocolate-lily
LH		Calocephalus citreus	Lemon Beauty-heads
LH		Eryngium ovinum	Blue Devil
LH		Ptilotus exaltatus	Mulla Mulla
MH		Calotis scabiosifolia	Rough Burr-daisy
MH		Goodenia pinnatifida	Cut-leaf Goodenia
MH		Ptilotus macrocephalus	Feather Heads
MH		Sida corrugata	Variable Sida
SH		Chamaesyce drummondii	Flat Spurge
SH		Convolvulus erubescens spp. agg.	Pink Bindweed
SH		Maireana pentagona	Hairy Bluebush
SH		Pogonolepis muelleriana	Stiff Cup-flower
LTG		Austrostipa aristiglumis	Plump Spear-grass
LTG		Austrostipa blackii	Crested Spear-grass
LTG		Austrostipa gibbosa	Spurred Spear-grass
LNG		Various spp.	
MTG		Austrodanthonia duttoniana	Brown-back Wallaby-grass
MTG		Austrostipa nodosa	Knotty Spear-grass
MTG		Austrostipa scabra	Rough Spear-grass
MTG		Whalleya proluta	Rigid Panic
MNG		Various spp.	

#### **Recruitment:**

Continuous.

#### **Organic Litter:**

5 % cover

#### Logs:

5 m/0.1ha.

#### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Lycium ferocissimum	African Box-thorn	high	high
MNG	Vulpia myuros	Rat's-tail Fescue	high	high
LH	Echium plantagineum	Paterson's Curse	high	high
LH	Sisymbrium irio	London Rocket	high	high
LNG	Avena fatua	Wild Oat	high	high
MH	Arctotheca calendula	Cape Weed	high	high
MH	Limonium sinuatum	Notch-leaf Sea-lavender	high	high
LH	Marrubium vulgare	Horehound	high	high
MH	Oxalis pes-caprae	Soursob	high	high
MH	Trifolium arvense var. arvense	Hare's-foot Clover	high	high
MH	Trifolium campestre var. campestre	Hop Clover	high	high
MH	Hedypnois cretica	Cretan Hedypnois	high	high
MNG	Avena barbata	Bearded Oat	high	high
MTG	Romulea minutiflora	Small-flower Onion-grass	high	high
MTG	Poa bulbosa	Bulbous Meadow-grass	high	high
MTG	Lolium rigidum	Wimmera Rye-grass	high	high
MNG	Vulpia muralis	Wall Fescue	high	high
MNG	Juncus capitatus	Capitate Rush	high	high
SH	Medicago polymorpha	Burr Medic	high	high
SH	Medicago minima	Little Medic	high	high



### EVC 826\_61: Treed Plains Savannah

#### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	high
MTG	Romulea rosea	Onion Grass	high	high
MNG	Brachypodium distachyon	False Brome	high	high
MH	Trifolium angustifolium var. angustifolium	Narrow-leaf Clover	high	high
MH	Plantago coronopus	Buck's-horn Plantain	high	high
MTG	Hordeum hystrix	Mediterranean Barley-grass	high	high
MTG	Bromus diandrus	Great Brome	high	high
LH	Salvia verbenaca	Wild Sage	high	high
MTG	Hordeum murinum s.l.	Barley-grass	high	high
MH	Trifolium subterraneum	Subterranean Clover	high	low
MH	Trifolium striatum	Knotted Clover	high	low
LH	Helminthotheca echioides	Ox-tongue	high	low
MH	Spergularia rubra s.l.	Red Sand-spurrey	high	low
MTG	Pentaschistis airoides subsp. airoides	False Hair-grass	high	low
LH	Lepidium africanum	Common Peppercress	high	low
SH	Trifolium glomeratum	Cluster Clover	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MNG	Aira cupaniana	Quicksilver Grass	high	low
MH	Hypochoeris glabra	Smooth Cat's-ear	high	low

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Northern Inland Slopes bioregion

EVC 882: Shallow Sands Woodland

#### **Description:**

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

Large trees:					
Species		DBH(cm)	#/ha		
<i>Eucalyptus</i> spp.		70 cm	15 / ha		
Allocasuarina luehmannii		40 cm	10 / 1.0		
Callitris glauco		40 cm			
culling to gladee	,priyila				
Tree Canopy	Cover:				
%cover	Character Species			Commo	n Name
15%	Eucalyptus melliodora			Yellow Bo	х
	Allocasuarina luehmannii			Buloke	
	Callitris glaucophylla			White Cyp	oress-pine
Understorey:					1
Life form	_	#Sp		%Cover	LF code
Immature Can				5%	IT
	ree or Large Shrub	1	-	5%	T
Medium Shrub	)	4		15%	MS
Small Shrub		3		10%	SS
Prostrate Shru	ID	1		5%	PS
Medium Herb		10		20%	MH
Small or Prost		2		5%	SH
Large Tufted (		1		1%	LTG
	all Tufted Graminoid	13	-	30%	MTG
	y Non-tufted Graminoid	3	-	5%	MNG
Bryophytes/Lic	cnens	na		10%	BL
Soil Crust		na		10%	S/C
LF Code	Species typical of at least	part of EVC ra	nae	Com	mon Name
Т	Exocarpos cupressiformis	•	-	Cherr	y Ballart
MS	Acacia montana			Malle	e Wattle
MS	Acacia pycnantha			Golde	en Wattle
MS	Acacia verniciflua			Varni	sh Wattle
MS	<i>Bursaria spinosa</i> ssp. <i>spinosa</i>			Swee	t Bursaria
SS	Pimelea curviflora s.s.			Curve	ed Rice-flower
SS	Eutaxia microphylla			Comr	non Eutaxia
SS	Enchylaena tomentosa var. tom	entosa		Ruby	Saltbush
PS	Astroloma humifusum			Crant	perry Heath
MH	Wahlenbergia luteola				wish Bluebell
MH	Acaena echinata				p's Burr
SH	Daucus glochidiatus				alian Carrot
SH	Drosera whittakeri ssp. aberrans	5			ed Sundew
LTG	Dichelachne crinita				-hair Plume-grass
MTG	Austrodanthonia geniculata				d Wallaby-grass
MTG	Austrodanthonia setacea				y Wallaby-grass
MTG	Schoenus apogon				non Bog-sedge
MTG	Lomandra multiflora ssp. multifl				-flowered Mat-rush
TTG	Centrolepis strigosa ssp. strigos	а		Hairy	Centrolepis
SC	Thysanotus patersonii			Twini	ng Fringe-lily



#### **Recruitment:**

Continuous

#### **Organic Litter:**

20 % cover

#### Logs:

15 m/0.1 ha.

#### Weediness:

WCCumc33				
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	Hypochoeris glabra	Smooth Cat's-ear	high	low
MH	Trifolium campestre var. campestre	Hop Clover	high	low
MH	<i>Trifolium angustifolium</i> var. <i>angustifolium</i>	Narrow-leaf Clover	high	low
MH	<i>Trifolium arvense</i> var. <i>arvense</i>	Hare's-foot Clover	high	low
MH	Petrorhagia velutina	Velvety Pink	high	low
MTG	Briza minor	Lesser Quaking-grass	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Romulea rosea	Onion Grass	high	low
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MNG	Aira elegantissima	Delicate Hair-grass	high	low
MNG	<i>Vulpia myuros</i> f. <i>myuros</i>	Rat's-tail Fescue	high	low
MNG	Juncus capitatus	Capitate Rush	high	low
MNG	Bromus rubens	Red Brome	high	low

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