

EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 3: Damp Sands Herb-rich Woodland

Description:

A low, grassy or bracken-dominated eucalypt forest or open woodland to 15 m tall with a large shrub layer and ground layer rich in herbs, grasses, and orchids. Occurs mainly on flat or undulating areas on moderately fertile, relatively well-drained, deep sandy or loamy topsoils over heavier subsoils (duplex soils).

Large trees:

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

Tree Canopy Cover:

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

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	3	10%	MS
Small Shrub	3	5%	SS
Medium Herb	16	20%	MH
Small or Prostrate Herb	7	15%	SH
Large Tufted Graminoid	1	10%	LTG
Medium to Small Tufted Graminoid	10	15%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
Ground Fern	1	10%	GF
Bryophytes/Lichens	na	10%	BL

EVC 3: Damp Sands Herb-rich Woodland – Goldfields bioregion

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

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

15 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
T	<i>Pinus radiata</i>	Radiata Pine	low	high
MH	<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high
MTG	<i>Juncus microcephalus</i>	Tiny-headed Rush	low	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MNG	<i>Aira caryophylla</i>	Silvery Hair-grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 19: Riparian Shrubland

Description:

Diverse, medium to tall shrubland to 5 m tall occurring on rocky substrates of major streams and banks and channels of rocky creeks and along perennial streams in gorge tracts. Able to withstand frequent flooding or regenerate rapidly after such disturbance and often forming dense thickets along the stream's edge during long periods without flooding. Trees may be irregularly scattered throughout but tend to be restricted to the banks of the rivers and creeks. Sedges and rushes common to riparian environments dominate the understorey as well as an array of herbs and grasses including many ephemeral native species which survive on the bare sands or in rock crevices.

Life forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	6	40%	MS
Large Herb	2	5%	LH
Medium Herb	6	10%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	3	10%	LTG
Medium to Small Tufted Graminoid	3	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	1%	MNG
Ground Fern	2	5%	GF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL

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

Recruitment:

Episodic/flood – desirable period between flood events is 5 years.

Organic Litter:

20% cover

Logs:

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

EVC 19: Riparian Shrubland – Goldfields bioregion

Weediness:

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 20: Heathy Dry Forest

Description:

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

Large trees:

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

Tree Canopy Cover:

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

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	8	25%	MS
Small Shrub	6	15%	SS
Prostrate Shrub	2	5%	PS
Large Herb	3	5%	LH
Medium Herb	10	20%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	10	25%	MTG
Medium to Tiny Non-tufted Graminoid	2	1%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

EVC 20: Heathy Dry Forest - Goldfields bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Brachyloma daphnoides</i>	Daphne Heath
MS	<i>Acacia pycnantha</i>	Golden Wattle
MS	<i>Grevillea alpina</i>	Cat's Claw Grevillea
MS	<i>Cassinia arcuata</i>	Drooping Cassinia
SS	<i>Tetradlea ciliata</i>	Pink-bells
SS	<i>Hovea heterophylla</i>	Common Hovea
SS	<i>Leucopogon virgatus</i>	Common Beard-heath
SS	<i>Cheiranthra cyanea</i> var. <i>cyanea</i>	Blue Finger-flower
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
LH	<i>Xerochrysum viscosum</i>	Shiny Everlasting
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Drosera peltata</i> ssp. <i>auriculata</i>	Tall Sundew
SH	<i>Opercularia varia</i>	Variable Stinkweed
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
MTG	<i>Joycea pallida</i>	Silvertop Wallaby-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily

Recruitment:

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

Organic Litter:

20 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MTG	<i>Vulpia</i> spp.	Fescue	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 21: Shrubby Dry Forest

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus cypellocarpa</i>	Mountain Grey-gum
	<i>Eucalyptus obliqua</i>	Messmate Stringybark

Life Forms:

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

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

Recruitment:

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

Organic Litter:

20 % cover

Logs:

20 m/0.1 ha.

Weediness:

There are no consistent weeds in this EVC.

EVC 21: Shrubby Dry Forest – Goldfields bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

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

Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus macrorhyncha</i>	Red Stringybark
	<i>Eucalyptus polyanthemus</i>	Red Box
	<i>Eucalyptus melliodora</i>	Yellow Box
	<i>Eucalyptus goniocalyx</i> s.s.	Bundy

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	3	5%	MS
Small Shrub	3	5%	SS
Prostrate Shrub	2	1%	PS
Large Herb	3	10%	LH
Medium Herb	16	30%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	13	30%	MTG
Medium to Tiny Non-tufted Graminoid	4	5%	MNG
Scrambler or Climber	1	1%	SC
Ground Fern	1	5%	GF
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

EVC 22: Grassy Dry Forest - Goldfields bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Acacia paradoxa</i>	Hedge Wattle
MS	<i>Cassinia arcuata</i>	Drooping Cassinia
MS	<i>Daviesia ulicifolia</i>	Gorse Bitter-pea
MS	<i>Acacia acinacea s.l.</i>	Gold-dust Wattle
SS	<i>Hovea heterophylla</i>	Common Hovea
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Acacia aculeatissima</i>	Thin-leaf Wattle
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
MH	<i>Hypericum gramineum</i>	Small St John's Wort
MH	<i>Geranium solanderi s.l.</i>	Austral Cranesbill
SH	<i>Daucus glochidiatus</i>	Australian Carrot
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Phyllangium divergens</i>	Wiry Mitrewort
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
MTG	<i>Joycea pallida</i>	Silvertop Wallaby-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Dianella revoluta s.l.</i>	Black-anther Flax-lily
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
EP	<i>Amyema miquelii</i>	Box Mistletoe
SC	<i>Hardenbergia violacea</i>	Purple Coral-pea

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Trifolium campestre var. campestre</i>	Hop Clover	high	low
MH	<i>Cerastium glomeratum s.l.</i>	Common Mouse-ear Chickweed	high	low
MH	<i>Centaurium erythraea</i>	Common Centaury	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MH	<i>Trifolium arvense var. arvense</i>	Hare's-foot Clover	high	low
MH	<i>Galium divaricatum</i>	Slender Bedstraw	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Bromus diandrus</i>	Great Brome	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Bromus madritensis</i>	Madrid Brome	high	low
MNG	<i>Vulpia myuros</i>	Rat's-tail Fescue	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 23: Herb-rich Foothill Forest

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus obliqua</i>	Messmate Stringybark
	<i>Eucalyptus radiata</i>	Narrow-leaved Peppermint
	<i>Eucalyptus viminalis</i>	Manna Gum
	<i>Eucalyptus globulus</i> ssp. <i>bicostata</i>	Eurabbie

Understorey:

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

EVC 23: Herb-rich Foothill Forest – Goldfields bioregion

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

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Centaureum erythraea</i>	Common Centaury	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 47: Valley Grassy Forest

Description:

Valley Grassy Forest occurs under moderate rainfall regimes of 700-800 mm per annum on fertile well-drained colluvial or alluvial soils on gently undulating lower slopes and valley floors. The tall, open overstorey to 20 m tall may carry a variety of eucalypts, usually species which prefer more moist or more fertile conditions over a sparse shrub cover. In season, a rich array of herbs, lilies, grasses and sedges dominate the ground layer but at the drier end of the spectrum the ground layer may be sparse and slightly less diverse, but with the moisture-loving species still remaining.

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus melliodora</i>	Yellow Box
	<i>Eucalyptus macrorhyncha</i>	Red Stringybark
	<i>Eucalyptus polyanthemos</i> ssp. <i>vestita</i>	Red Box
	<i>Eucalyptus rubida</i>	Candlebark
	<i>Eucalyptus goniocalyx</i> s.l.	Bundy

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	3	5%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	1	5%	PS
Large Herb	2	5%	LH
Medium Herb	11	20%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	8	30%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
Ground Fern	1	1%	GF
Bryophytes/Lichens	na	20%	BL

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
MS	<i>Cassinia arcuata</i>	Drooping Cassinia
MS	<i>Ozothamnus obcordatus</i>	Grey Everlasting
MS	<i>Grevillea alpina</i>	Cat's Claw Grevillea
MS	<i>Daviesia leptophylla</i>	Narrow-leaf Bitter-pea
SS	<i>Tetralochea ciliata</i>	Pink-bells
SS	<i>Dillwynia cinerascens</i> s.l.	Grey Parrot-pea
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
MH	<i>Drosera peltata</i>	Pale Sundew
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MTG	<i>Austrodanthonia fulva</i>	Copper-awned Wallaby-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Cheilanthes sieberi</i> ssp. <i>sieberi</i>	Narrow Rock-fern

EVC 47: Valley Grassy Forest - Goldfields bioregion

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Sonchus asper</i> s.l.	Rough Sow-thistle	high	low
LH	<i>Carduus tenuiflorus</i>	Winged Thistle	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Trifolium arvense</i> var. <i>arvense</i>	Hare's-foot Clover	high	low
MH	<i>Trifolium campestre</i> var. <i>campestre</i>	Hop Clover	high	low
MH	<i>Centaureum erythraea</i>	Common Centaury	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MH	<i>Galium murale</i>	Small Goosegrass	high	low
MH	<i>Cerastium glomeratum</i> s.l.	Common Mouse-ear Chickweed	high	low
MH	<i>Galium divaricatum</i>	Slender Bedstraw	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Bromus diandrus</i>	Great Brome	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Bromus madritensis</i>	Madrid Brome	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 48: Heathy Woodland

Description:

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

Large trees:

Species	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	60 cm	15 / ha
<i>Allocasuarina luehmannii</i>	40 cm	

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus leucoxylon</i>	Yellow Gum
	<i>Eucalyptus microcarpa</i>	Grey Box
	<i>Eucalyptus polyanthemos</i>	Red Box
	<i>Eucalyptus tricarpa</i>	Red Ironbark
	<i>Eucalyptus goniocalyx</i> s.l.	Bundy
	<i>Allocasuarina luehmannii</i>	Buloke

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	9	30%	MS
Small Shrub	7	20%	SS
Prostrate Shrub	2	1%	PS
Large Herb	2	5%	LH
Medium Herb	9	15%	MH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	7	15%	MTG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

EVC 48: Heathy Woodland - Goldfields bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Acacia pycnantha</i>	Golden Wattle
MS	<i>Acacia genistifolia</i>	Spreading Wattle
MS	<i>Grevillea alpina</i>	Cat's Claw Grevillea
MS	<i>Calytrix tetragona</i>	Common Fringe-myrtle
SS	<i>Astroloma conostephioides</i>	Flame Heath
SS	<i>Hibbertia exutiacies</i>	Spiky Guinea-flower
SS	<i>Pultenaea largiflorens</i>	Twiggy Bush-pea
SS	<i>Hibbertia riparia</i>	Erect Guinea-flower
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Xerochrysum viscosum</i>	Shiny Everlasting
MH	<i>Leptorhynchus tenuifolius</i>	Wiry Buttons
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Cyanicula caerulea</i>	Blue Fairy
MH	<i>Drosera peltata</i> ssp. <i>peltata</i>	Pale Sundew
SH	<i>Drosera whittakeri</i> ssp. <i>aberrans</i>	Scented Sundew
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
MTG	<i>Joycea pallida</i>	Silver-top Wallaby-grass
MTG	<i>Lomandra multiflora</i> ssp. <i>multiflora</i>	Many-flowered Mat-rush
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MTG	<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass
SC	<i>Cassytha glabella</i>	Slender Dodder-laurel
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily
SC	<i>Drosera macrantha</i>	Climbing Sundew

Recruitment:

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

Organic Litter:

40 % cover

Logs:

15 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MNG	<i>Aira cupaniana</i>	Quicksilver Grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 55: Plains Grassy Woodland

Description:

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

Large trees:

Species	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	70 cm	15 / ha
<i>Allocasuarina luehmannii</i>	40 cm	

Tree Canopy Cover:

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

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	1	5%	MS
Small Shrub	1	1%	SS
Large Herb	3	5%	LH
Medium Herb	10	30%	MH
Small or Prostrate Herb	3	10%	SH
Medium to Small Tufted Graminoid	18	40%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Acacia acinacea</i> s.l.	Gold-dust Wattle
MS	<i>Acacia pycnantha</i>	Golden Wattle
SS	<i>Lissanthe strigosa</i> ssp. <i>subulata</i>	Peach Heath
LH	<i>Wahlenbergia luteola</i>	Bronze Bluebell
LH	<i>Wahlenbergia communis</i> s.l.	Tufted Bluebell
MH	<i>Brachyscome lineariloba</i>	Hard-head Daisy
SH	<i>Drosera whittakeri</i> ssp. <i>aberrans</i>	Scented Sundew
SH	<i>Ptilotus spathulatus</i> f. <i>spathulatus</i>	Pussy Tails
SH	<i>Drosera glanduligera</i>	Scarlet Sundew
SH	<i>Siloxerus multiflorus</i>	Small Wrinklewort
MTG	<i>Austrostipa scabra</i> ssp. <i>falcata</i>	Rough Spear-grass
MTG	<i>Elymus scaber</i> var. <i>scaber</i>	Common Wheat-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass

EVC 55: Plains Grassy Woodland - Goldfields bioregion

Recruitment:

Continuous

Organic Litter:

10 % cover

Logs:

10 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Centaureum tenuiflorum</i>	Slender Centaury	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Galium divaricatum</i>	Slender Bedstraw	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Trifolium campestre</i> var. <i>campestre</i>	Hop Clover	high	low
MH	<i>Cicendia quadrangularis</i>	Square Cicendia	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
LNG	<i>Avena fatua</i>	Wild Oat	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Bromus diandrus</i>	Great Brome	high	low
MTG	<i>Bromus hordeaceus</i> ssp. <i>hordeaceus</i>	Soft Brome	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 56: Floodplain Riparian Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

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

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	2	5%	MS
Small Shrub	1	1%	SS
Medium Herb	4	10%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	6	40%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
Bryophytes/Lichens	na	10%	BL
Total understorey projective foliage cover		90%	

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
MS	<i>Hymenanthera dentata</i> s.l.	Tree Violet
MH	<i>Sida corrugata</i>	Variable Sida
MH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
MH	<i>Persicaria decipiens</i>	Slender Knotweed
SH	<i>Chamaesyce drummondii</i>	Flat Spurge
SH	<i>Azolla filiculoides</i>	Pacific Azolla
LTG	<i>Carex appressa</i>	Tall Sedge
LNG	<i>Phragmites australis</i>	Common Reed
LNG	<i>Eleocharis sphacelata</i>	Tall Spike-sedge
MTG	<i>Poa labillardierei</i>	Common Tussock-grass
MTG	<i>Chloris truncata</i>	Windmill Grass
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Aristida behriana</i>	Brush Wire-grass
MNG	<i>Pseudoraphis spinescens</i>	Spiny Mud-grass
MNG	<i>Eleocharis acuta</i>	Common Spike-sedge

EVC 56: Floodplain Riparian Woodland - Goldfields bioregion

Recruitment:

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

Organic Litter:

40 % cover

Logs:

30 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
SH	<i>Trifolium glomeratum</i>	Cluster Clover	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 61: Box Ironbark Forest

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus microcarpa</i>	Grey Box
	<i>Eucalyptus tricarpa</i>	Red Ironbark
	<i>Eucalyptus polyanthemus</i>	Red Box
	<i>Eucalyptus leucoxylon</i>	Yellow Gum

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	7	25%	MS
Small Shrub	4	5%	SS
Prostrate Shrub	2	1%	PS
Medium Herb	9	20%	MH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	8	15%	MTG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	20%	S/C
Total understorey projective foliage cover		85%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Acacia pycnantha</i>	Golden Wattle
MS	<i>Cassinia arcuata</i>	Drooping Cassinia
MS	<i>Acacia genistifolia</i>	Spreading Wattle
MS	<i>Acacia acinacea s.l.</i>	Gold-dust Wattle
SS	<i>Hibbertia exutiacies</i>	Spiky Guinea-flower
SS	<i>Pultenaea largiflorens</i>	Twiggy Bush-pea
PS	<i>Astroloma humifusum</i>	Cranberry Heath
MH	<i>Senecio tenuiflorus</i>	Slender Fireweed
MH	<i>Xerochrysum viscosum</i>	Shiny Everlasting
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Veronica plebeia</i>	Trailing Speedwell
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
MTG	<i>Joycea pallida</i>	Silvertop Wallaby-grass
MTG	<i>Dianella revoluta s.l.</i>	Black-anther Flax-lily
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily

EVC 61: Box Ironbark Forest - Goldfields bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MH	<i>Petrorhagia velutina</i>	Hairy Pink	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 65: Sedge-rich Woodland

Description:

Occurs in shallow depressions in flatter, poorly drained areas. The vegetation is an open woodland to 15 m tall, with shrubs and understorey trees uncommon, and sedges predominating in the ground layer. Herbs typical of inundated environments are present, but also grass, herb and geophyte species may also be common.

Large trees:

Species	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	70 cm	15 / ha
<i>Allocasuarina luehmannii</i>	40 cm	

Tree Canopy Cover:

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

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	2	5%	MS
Small Shrub	2	1%	SS
Large Herb	1	5%	LH
Medium Herb	10	20%	MH
Small or Prostrate Herb	2	5%	SH
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	13	30%	MTG
Medium to Tiny Non-tufted Graminoid	3	15%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

LF Code

Species typical of at least part of EVC range

Common Name

MS	<i>Hakea rugosa</i>	Dwarf Hakea
SS	<i>Eutaxia microphylla</i>	Common Eutaxia
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Senecio tenuiflorus</i>	Narrow-leaf Groundsel
MH	<i>Utricularia dichotoma</i> s.l.	Fairies' Aprons
MH	<i>Drosera peltata</i> ssp. <i>peltata</i>	Pale Sundew
MH	<i>Lagenophora huegelii</i>	Coarse Lagenophora
MH	<i>Leptorhynchus squamatus</i>	Scaly Buttons
SH	<i>Solenogyne dominii</i>	Smooth Solenogyne
SH	<i>Myriocephalus rhizocephalus</i>	Woolly-heads
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
MTG	<i>Lepidosperma viscidum</i>	Sticky Sword-sedge
MTG	<i>Juncus holoschoenus</i>	Joint-leaf Rush
MTG	<i>Lachnagrostis filiformis</i> var. <i>filiformis</i>	Common Blown-grass
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MNG	<i>Chorizandra enodis</i>	Black Bristle-sedge
MNG	<i>Eleocharis acuta</i>	Common Spike-sedge
TTG	<i>Centrolepis aristata</i>	Pointed Centrolepis
TTG	<i>Centrolepis strigosa</i> ssp. <i>strigosa</i>	Hairy Centrolepis
TTG	<i>Centrolepis glabra</i>	Smooth Centrolepis
TTG	<i>Aphelia gracilis</i>	Slender Aphelia
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily

EVC 65: Sedge-rich Woodland - Goldfields bioregion

Recruitment:

Continuous

Organic Litter:

10 % cover

Logs:

15 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Cicendia filiformis</i>	Slender Cicendia	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low
TTG	<i>Cyperus tenellus</i>	Tiny Flat-sedge	high	low
TTG	<i>Isolepis hystrix</i>	Awned Club-sedge	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 67: Alluvial Terraces Herb-rich Woodland

Description:

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

Large trees:

Species	DBH(cm)	# / ha
<i>Eucalyptus</i> spp.	70 cm	8 / ha
<i>Allocasuarina</i> spp.	50 cm	

Tree Canopy Cover:

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

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	3	5%	MS
Small Shrub	3	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	3	5%	LH
Medium Herb	15	30%	MH
Small or Prostrate Herb	5	10%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	12	30%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	1	1%	GF
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

Recruitment:

Continuous

Organic Litter:

10 % cover

Logs:

15 m/0.1 ha.

EVC 67: Alluvial Terraces Herb-rich Woodland - Goldfields bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Acacia pycnantha</i>	Golden Wattle
MS	<i>Acacia acinacea s.l.</i>	Gold-dust Wattle
MS	<i>Acacia paradoxa</i>	Hedge Wattle
MS	<i>Acacia genistifolia</i>	Spreading Wattle
SS	<i>Lissanthe strigosa ssp. subulata</i>	Peach Heath
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Dillwynia cinerascens s.l.</i>	Grey Parrot-pea
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
MH	<i>Cynoglossum suaveolens</i>	Sweet Hound's-tongue
MH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
MH	<i>Daucus glochidiatus</i>	Australian Carrot
MH	<i>Cymbonotus preissianus</i>	Austral Bear's-ears
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Solenogyne dominii</i>	Smooth Solenogyne
SH	<i>Drosera whittakeri ssp. aberrans</i>	Scented Sundew
SH	<i>Cymbonotus preissianus</i>	Austral Bear's-ear
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Elymus scaber var. scaber</i>	Common Wheat-grass
MTG	<i>Dianella revoluta s.l.</i>	Black-anther Flax-lily
MTG	<i>Austrostipa scabra</i>	Rough Spear-grass
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
TTG	<i>Centrolepis strigosa ssp. strigosa</i>	Hairy Centrolepis
TTG	<i>Centrolepis aristata</i>	Pointed Centrolepis
GF	<i>Cheilanthes austrotenuifolia</i>	Green Rock-fern
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Sonchus asper s.l.</i>	Rough Sow-thistle	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Arctotheca calendula</i>	Cape Weed	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MH	<i>Trifolium campestre var. campestre</i>	Hop Clover	high	low
MH	<i>Cicendia quadrangularis</i>	Square Cicendia	high	low
MH	<i>Cerastium glomeratum s.l.</i>	Common Mouse-ear Chickweed	high	low
MH	<i>Galium murale</i>	Small Goosegrass	high	low
MH	<i>Petrorhagia velutina</i>	Velvety Pink	high	low
MH	<i>Centaurium erythraea</i>	Common Centaury	high	low
MH	<i>Galium divaricatum</i>	Slender Bedstraw	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low
MNG	<i>Vulpia myuros</i>	Rat's-tail Fescue	high	low
MNG	<i>Vulpia ciliata</i>	Fringed Fescue	high	low
TTG	<i>Cyperus tenellus</i>	Tiny Flat-sedge	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 68: Creekline Grassy Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

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

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	4	10%	MS
Small Shrub	3	5%	SS
Large Herb	2	5%	LH
Medium Herb	9	15%	MH
Small Herb	3	5%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	16	40%	MTG
Medium to Tiny Non-tufted Graminoid	3	5%	MNG
Bryophytes/Lichens	na	10%	BL

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Acacia pycnantha</i>	Golden Wattle
MS	<i>Daviesia ulicifolia</i>	Gorse Bitter-pea
MS	<i>Cassinia arcuata</i>	Drooping Cassinia
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Pultenaea largiflorens</i>	Twiggy Bush-pea
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
MH	<i>Xerochrysum viscosum</i>	Shiny Everlasting
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Hypericum gramineum</i>	Small St John's Wort
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG	<i>Austrostipa rudis</i>	Veined Spear-grass
LTG	<i>Carex tereticaulis</i>	Rush Sedge
MTG	<i>Poa labillardierei</i>	Common Tussock-grass
MTG	<i>Elymus scaber</i> var. <i>scaber</i>	Common Wheat-grass
MTG	<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass
MTG	<i>Juncus remotiflorus</i>	Diffuse Rush
MTG	<i>Carex appressa</i>	Tall Sedge
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily

EVC 68: Creekline Grassy Woodland - Goldfields bioregion

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

30 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Galium murale</i>	Small Goosegrass	high	low
MH	<i>Oxalis pes-caprae</i>	Soursob	high	high
LTG	<i>Juncus acutus</i>	Spiny Rush	high	high
LTG	<i>Phalaris aquatica</i>	Toowoomba Canary-grass	high	high
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Bromus hordeaceus</i> ssp. <i>hordeaceus</i>	Soft Brome	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Vulpia muralis</i>	Wall Fescue	high	low
MNG	<i>Bromus madritensis</i>	Madrid Brome	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 69: Metamorphic Slopes Shrubby Woodland

Description:

Occurs on rocky slopes of contact metamorphosed ridges adjacent to granitic plutons. Slopes have stony soils and fractured bedrock resulting in high permeability to water and low effective rainfall. A very low open woodland to 8 m tall with a dense layer of medium to large shrubs. Ground layer can be sparse with scattered grasses, forbs and low shrubs. The presence of geophytes in the ground stratum indicates seasonally moist soil conditions.

Large trees:

Species	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	40 cm	15 / ha

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus microcarpa</i>	Grey Box
	<i>Eucalyptus polyanthemus</i>	Red Box
	<i>Eucalyptus leucoxylon</i>	Yellow Gum

Understorey:

Life form	#Spp	%Cover	LF code
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	7	25%	MS
Small Shrub	3	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	2	5%	LH
Medium Herb	11	20%	MH
Small or Prostrate Herb*	2	1%	SH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	7	15%	MTG
Ground Fern	1	5%	GF
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	20%	S/C

EVC 69: Metamorphic Slopes Shrubby Woodland - Goldfields bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Allocasuarina verticillata</i>	Drooping Sheoke
MS	<i>Acacia euthycarpa</i>	Wallowa
MS	<i>Ozothamnus obcordatus</i>	Grey Everlasting
MS	<i>Acacia pycnantha</i>	Golden Wattle
MS	<i>Cassinia arcuata</i>	Drooping Cassinia
SS	<i>Astroloma conostephioides</i>	Flame Heath
SS	<i>Pultenaea prostrata</i>	Silky Bush-pea
SS	<i>Hibbertia exutiacies</i>	Spiky Guinea-flower
SS	<i>Pimelea humilis</i>	Common Rice-flower
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Xerochrysum viscosum</i>	Shiny Everlasting
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
MH	<i>Gonocarpus elatus</i>	Tall Raspwort
MH	<i>Stuartina muelleri</i>	Spoon Cudweed
MH	<i>Rhodanthe laevis</i>	Smooth Sunray
SH	<i>Millotia muelleri</i>	Common Bow-flower
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Siloxerus multiflorus</i>	Small Wrinklewort
SH	<i>Calandrinia calyptata</i>	Pink Purslane
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass
MTG	<i>Austrostipa scabra</i>	Rough Spear-grass
MTG	<i>Dianella revoluta s.l.</i>	Black-anther Flax-lily
GF	<i>Cheilanthes austrotenuifolia</i>	Green Rock-fern
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Parentucellia latifolia</i>	Red Bartsia	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Vulpia myuros</i>	Rat's-tail Fescue	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 70: Hillcrest Herb-rich Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus microcarpa</i>	Grey Box
	<i>Eucalyptus melliodora</i>	Yellow Box

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	2	5%	MS
Small Shrub	2	1%	SS
Large Herb	4	10%	LH
Medium Herb	14	20%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	12	30%	MTG
Medium to Tiny Non-tufted Graminoid	3	5%	MNG
Ground Fern	1	1%	GF
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

EVC 70: Hillcrest Herb-rich Woodland - Goldfields bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia implexa</i>	Lightwood
T	<i>Allocasuarina verticillata</i>	Drooping Sheoak
MS	<i>Acacia pycnantha</i>	Golden Wattle
MS	<i>Cassinia arcuata</i>	Drooping Cassinia
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Astroloma conostephioides</i>	Flame Heath
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
LH	<i>Wahlenbergia luteola</i>	Bronze Bluebell
MH	<i>Xerochrysum viscosum</i>	Shiny Everlasting
MH	<i>Stackhousia monogyna</i>	Creamy Stackhousia
MH	<i>Gonocarpus elatus</i>	Tall Raspswort
MH	<i>Pelargonium rodneyanum</i>	Magenta Stork's-bill
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Kennedia prostrata</i>	Running Postman
SH	<i>Drosera whittakeri</i> ssp. <i>aberrans</i>	Scented Sundew
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
MTG	<i>Austrostipa scabra</i>	Rough Spear-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Themeda triandra</i>	Kangaroo Grass
GF	<i>Cheilanthes austrotenuifolia</i>	Green Rock-fern
GF	<i>Cheilanthes sieberi</i> ssp. <i>sieberi</i>	Narrow Rock-fern
EP	<i>Amyema miquelii</i>	Box Mistletoe
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

Weediness:

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 71: Hills Herb-rich Woodland

Description:

A dry, open eucalypt woodland to 15 m tall often with a sparse shrub layer. The understorey is dominated by a carpet of herbs and grasses. Soils are generally shallow but fertile, and outcropping rock is not uncommon. This seasonally dry environment is favourable for annual herbs, with the fertile nature of the various geologies also supporting perennial herbs. Landform can vary from relatively flat ground to ridge tops on sedimentary sandstones (along seams of mineral-rich sandstone) to undulating, rounded, granite hill landforms.

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus goniocalyx</i> s.s.	Bundy
	<i>Eucalyptus blakelyi</i>	Blakely's Red-gum
	<i>Eucalyptus macrorhyncha</i>	Red Stringybark
	<i>Eucalyptus melliodora</i>	Yellow Box
	<i>Eucalyptus camaldulensis</i>	River Red Gum

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	5	15%	MS
Large Herb	4	5%	LH
Medium Herb	15	20%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	1%	LTG
Medium to Small Tufted Graminoid	11	30%	MTG
Medium to Tiny Non-tufted Graminoid	5	10%	MNG
Ground Fern	2	10%	GF
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Dodonaea viscosa</i>	Sticky Hop-bush
MS	r <i>Acacia deanei</i> ssp. <i>paucijuga</i>	Deane's Wattle
MS	<i>Acacia euthycarpa</i>	Wallowa
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
MH	<i>Gonocarpus elatus</i>	Tall Raspswort
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Phyllangium divergens</i>	Wiry Mitrewort
SH	<i>Crassula sieberiana</i>	Sieber Crassula
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
MTG	<i>Austrostipa scabra</i> ssp. <i>falcata</i>	Rough Spear-grass
MTG	<i>Tricoryne elatior</i>	Yellow Rush-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
TTG	<i>Centrolepis aristata</i>	Pointed Centrolepis
GF	<i>Cheilanthes austrotenuifolia</i>	Green Rock-fern
GF	<i>Cheilanthes sieberi</i> ssp. <i>sieberi</i>	Narrow Rock-fern
EP	<i>Amyema quandang</i> var. <i>quandang</i>	Grey Mistletoe
EP	<i>Amyema miquelii</i>	Box Mistletoe

EVC 71: Hills Herb-rich Woodland - Goldfields bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Carduus tenuiflorus</i>	Winged Thistle	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Trifolium campestre</i> var. <i>campestre</i>	Hop Clover	high	low
MH	<i>Trifolium angustifolium</i> var. <i>angustifolium</i>	Narrow-leaf Clover	high	low
MH	<i>Petrorhagia velutina</i>	Velvety Pink	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MH	<i>Trifolium arvense</i> var. <i>arvense</i>	Hare's-foot Clover	high	low
MH	<i>Cerastium glomeratum</i> s.l.	Common Mouse-ear Chickweed	high	low
MH	<i>Parentucellia latifolia</i>	Red Bartsia	high	low
MH	<i>Moenchia erecta</i>	Erect Chickweed	high	low
MH	<i>Galium murale</i>	Small Goosegrass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Bromus hordeaceus</i> ssp. <i>hordeaceus</i>	Soft Brome	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Lolium rigidum</i>	Wimmera Rye-grass	high	low
MTG	<i>Bromus diandrus</i>	Great Brome	high	low
MNG	<i>Avena barbata</i>	Bearded Oat	high	low
MNG	<i>Aira cupaniana</i>	Quicksilver Grass	high	low
MNG	<i>Bromus rubens</i>	Red Brome	high	low
MNG	<i>Bromus madritensis</i>	Madrid Brome	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 72: Granitic Hills Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
10%	<i>Eucalyptus blakelyi</i>	Blakely's Red Gum

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	1%	T
Large Herb	3	5%	LH
Medium Herb	11	15%	MH
Small or Prostrate Herb	2	1%	SH
Medium to Small Tufted Graminoid	6	10%	MTG
Medium to Tiny Non-tufted Graminoid	4	10%	MNG
Tiny Tufted Graminoid*	2	1%	TTG
Ground Fern	1	10%	GF
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

* Largely seasonal life form

Total understorey projective foliage cover **75%**

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia mearnsii</i>	Black Wattle
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
LH	<i>Ajuga australis</i>	Austral Bugle
MH	<i>Calandrinia eremaea</i>	Small Purslane
MTG	<i>Carex breviculmis</i>	Common Grass-sedge
MTG	k <i>Austrodanthonia bipartita s.s.</i>	Leafy Wallaby-grass
MNG	<i>Triglochin nanum</i>	Dwarf Arrowgrass
TTG	<i>Isolepis marginata</i>	Little Club-sedge
TTG	<i>Centrolepis strigosa ssp. strigosa</i>	Hairy Centrolepis
GF	<i>Cheilanthes austrotenuifolia</i>	Green Rock-fern

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

EVC 72: Granitic Hills Woodland - Goldfields bioregion

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Hypericum perforatum</i>	St John's Wort	high	high
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Silybum marianum</i>	Variegated Thistle	high	high
MH	<i>Cicendia quadrangularis</i>	Square Cicendia	high	low
MH	<i>Stellaria media</i>	Chickweed	high	low
MH	<i>Erophila verna ssp. verna</i>	Whitlow Grass	high	low
MH	<i>Moenchia erecta</i>	Erect Chickweed	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Galium murale</i>	Small Goosegrass	high	low
MH	<i>Cerastium glomeratum s.l.</i>	Common Mouse-ear Chickweed	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MH	<i>Parentucellia latifolia</i>	Red Bartsia	high	low
MH	<i>Trifolium dubium</i>	Suckling Clover	high	low
MH	<i>Veronica arvensis</i>	Wall Speedwell	high	low
MH	<i>Trifolium angustifolium var. angustifolium</i>	Narrow-leaf Clover	high	low
MH	<i>Spergula pentandra</i>	Five-stamen Corn-spurrey	high	low
MH	<i>Sherardia arvensis</i>	Field Madder	high	low
MH	<i>Erodium moschatum</i>	Musky Heron's-bill	high	low
MH	<i>Arctotheca calendula</i>	Cape Weed	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Poa bulbosa</i>	Bulbous Meadow-grass	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Romulea minutiflora</i>	Small-flower Onion-grass	high	low
MTG	<i>Poa annua</i>	Annual Meadow-grass	high	low
MNG	<i>Bromus rubens</i>	Red Brome	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 83: Swampy Riparian Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

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

Understorey:

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

LF Code

Species typical of at least part of EVC range

Common Name

T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Acacia mearnsii</i>	Black Wattle
MS	<i>Olearia glandulosa</i>	Swamp Daisy-bush
MS	<i>Acacia verticillata</i> ssp. <i>verticillata</i>	Prickly Moses
MS	<i>Leptospermum lanigerum</i>	Woolly Tea-tree
MS	<i>Ozothamnus rosmarinifolius</i>	Rosemary Everlasting
LH	<i>Senecio minimus</i>	Shrubby Fireweed
LH	<i>Persicaria praetermissa</i>	Spotted Knotweed
LH	<i>Epilobium billardierianum</i>	Variable Willow-herb
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
MH	<i>Geranium potentilloides</i>	Cinquefoil Cranesbill
MH	<i>Oxalis exilis</i>	Shady Wood-sorrel
MH	<i>Euchiton involucratus</i> s.l.	Star Cudweed
SH	<i>Leptinella reptans</i> s.l.	Creeping Cotula
SH	<i>Hydrocotyle sibthorpioides</i>	Shining Pennywort
SH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
SH	<i>Dichondra repens</i>	Kidneyweed
LTG	<i>Juncus procerus</i>	Tall Rush
LTG	<i>Cyperus lucidus</i>	Leafy Flat-sedge
LTG	<i>Juncus pallidus</i>	Pale Rush
MTG	<i>Juncus planifolius</i>	Broad-leaf Rush
MTG	<i>Juncus pauciflorus</i>	Loose-flower Rush
MTG	<i>Poa labillardierei</i>	Common Tussock-grass
MTG	<i>Triglochin procerum</i> s.l.	Water Ribbons
MNG	<i>Hemarthria uncinata</i> var. <i>uncinata</i>	Mat Grass
MNG	<i>Triglochin striatum</i>	Streaked Arrowgrass
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Calystegia sepium</i>	Large Bindweed

EVC 83: Swampy Riparian Woodland - Goldfields bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Rubus</i> sp. aff. <i>armeniacus</i>	Blackberry	high	high
LH	<i>Sonchus asper</i> s.l.	Rough Sow-thistle	high	low
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
LH	<i>Plantago lanceolata</i>	Ribwort	high	low
LH	<i>Parentucellia viscosa</i>	Yellow Bartsia	high	low
MH	<i>Lotus corniculatus</i>	Bird's-foot Trefoil	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Acetosella vulgaris</i>	Sheep Sorrel	high	low
MH	<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
SH	<i>Trifolium repens</i> var. <i>repens</i>	White Clover	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high
MTG	<i>Lolium perenne</i>	Perennial Rye-grass	high	high
MTG	<i>Juncus articulatus</i>	Jointed Rush	high	high
MTG	<i>Bromus hordeaceus</i> ssp. <i>hordeaceus</i>	Soft Brome	high	low
MNG	<i>Vulpia</i> spp.	Fescue	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields 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.

+ mallee only component (ignore when assessing shrubland areas and standardise final score as appropriate)

Tree Canopy Cover⁺:

%cover	Character Species	Common Name
30%	<i>Eucalyptus viridis</i>	Green Mallee
	<i>Eucalyptus polybractea</i>	Blue Mallee
	<i>Eucalyptus behriana</i>	Bull Mallee

Understorey:

Life form	#Spp	%Cover	LF code
Medium Shrub	9	30%	MS
Small Shrub	5	10%	SS
Prostrate Shrub	1	1%	PS
Large Herb	1	1%	LH
Medium Herb	6	15%	MH
Medium to Small Tufted Graminoid	3	5%	MTG
Bryophytes/Lichens	na	20%	BL
Soil Crust	na	20%	S/C

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Melaleuca uncinata</i>	Broombush
MS	<i>Ozothamnus obcordatus</i>	Grey Everlasting
MS	<i>Acacia acinacea s.l.</i>	Gold-dust Wattle
MS	<i>Cassinia arcuata</i>	Drooping Cassinia
SS	<i>Astroloma conostephioides</i>	Flame Heath
SS	<i>Pultenaea largiflorens</i>	Twiggy Bush-pea
SS	<i>Pultenaea prostrata</i>	Silky Bush-pea
SS	<i>Hibbertia exutiacies</i>	Spiky Guinea-flower
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
MH	<i>Xerochrysum viscosum</i>	Shiny Everlasting
MH	<i>Glischrocaryon behrii</i>	Golden Pennants
MH	<i>Rhodanthe laevis</i>	Smooth Sunray
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MTG	<i>Dianella revoluta s.l.</i>	Black-anther Flax-lily
MTG	<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass

Recruitment:

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

Organic Litter:

20 % cover

Logs⁺:

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

Weediness:

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

EVC 93: Sandstone Ridge Shrubland (*syn.* Broombush Mallee) - Goldfields Bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 97: Semi-arid Woodland

Description:

Non-eucalypt woodland or open forest to 12 m tall, of low rainfall areas. Occurs in a range of somewhat elevated positions not subject to flooding or inundation. The surface soils are typically light textured loamy sands or sandy loams.

Large trees:

Species	DBH(cm)	#/ha
<i>Casuarina</i> spp.	40 cm	20/ha
<i>Allocasuarina</i> spp.	40 cm	
<i>Callitris</i> spp.	40 cm	
<i>Myoporum platycarpum</i>	35 cm	

Tree Canopy Cover:

% cover	Character Species	Common Name
20%	<i>Allocasuarina luehmannii</i>	Buloke
	<i>Callitris gracilis</i> ssp. <i>murrayensis</i>	Slender Cypress-pine
	<i>Myoporum platycarpum</i>	Sugarwood

Understorey:

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

* Largely seasonal life form

Total understorey projective foliage cover 75%

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Alectryon oleifolius</i> ssp. <i>canescens</i>	Cattle Bush
MS	<i>Acacia oswaldii</i>	Umbrella Wattle
MS	<i>Hakea tephrosperma</i>	Hooked Needlewood
MS	<i>Hakea leucoptera</i> ssp. <i>leucoptera</i>	Silver Needlewood
SS	<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	Ruby Saltbush
SS	<i>Sclerolaena diacantha</i>	Grey Copperburr
SS	<i>Olearia pimeleoides</i>	Pimelea Daisy-bush
SS	<i>Rhagodia spinescens</i>	Hedge Saltbush
MH	<i>Einadia nutans</i> ssp. <i>nutans</i>	Nodding Saltbush
MH	<i>Vittadinia dissecta</i> s.l.	Dissected New Holland Daisy
MH	<i>Calandrinia eremaea</i>	Small Purslane
MH	<i>Crassula colorata</i>	Dense Crassula
SH	<i>Actinobole uliginosum</i>	Flannel Cudweed
MTG	<i>Austrodanthonia caespitosa</i>	Common Wallaby-grass
MTG	<i>Austrostipa</i> spp.	Spear-grass
MNG	<i>Austrostipa elegantissima</i>	Feather Spear-grass

EVC 97: Semi-arid Woodland - Goldfields bioregion

Recruitment:

Continuous

Organic Litter:

20% cover

Logs:

20m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Brassica tournefortii</i>	Mediterranean Turnip	high	high
LH	<i>Reichardia tingitana</i>	Reichardia	high	low
MH	<i>Silene</i> spp.	Catchfly	high	high
SH	<i>Medicago minima</i>	Little Medic	high	high
MTG	<i>Schismus barbatus</i>	Arabian Grass	high	high
MTG	<i>Pentaschistis airoides</i> ssp. <i>airoides</i>	False Hair-grass	high	high
MNG	<i>Bromus rubens</i>	Red Brome	high	high
MNG	<i>Vulpia myuros</i>	Rat's-tail Fescue	high	high
MNG	<i>Critesion murinum</i> subsp. <i>glaucum</i>	Blue Barley-grass	high	high
SC	<i>Asparagus asparagoides</i>	Bridal Creeper	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 104: Lignum Swamp

Description:

Typically treeless shrubland to 4 m, tall with robust (but sometimes patchy) growth of lignum. Widespread wetland vegetation type in low rainfall areas on heavy soils, subject to infrequent inundation resulting from overbank flows from rivers or local runoff.

Life forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	1	20%	MS
Large Herb*	4	5%	LH
Medium Herb*	8	25%	MH
Small or Prostrate Herb*	2	10%	SH
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	2	5%	MTG
Medium to Tiny Non-tufted Graminoid*	2	5%	MNG
Scrambler or Climber	1	1%	SC
Soil crust*	na	10%	S/C

* Largely seasonal life form

Total understorey projective foliage cover

75%

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Muehlenbeckia florulenta</i>	Tangled Lignum
MS	<i>Chenopodium nitriaceum</i>	Nitre Goosefoot
SS	<i>Sclerolaena tricuspid</i>	Three-spined Bassia
SS	<i>Sclerolaena muricata</i>	Five-spined Bassia
LH	<i>Rumex</i> spp.	Dock
MH	<i>Marsilea drummondii</i>	Common Nardoo
MH	<i>Goodenia</i> spp.	Goodenia
MH	<i>Ranunculus</i> spp.	Buttercup
MNG	<i>Eragrostis infecunda</i>	Barren Cane grass
MTG	<i>Juncus</i> spp.	Rush
MNG	<i>Eleocharis</i> spp.	Spike-sedge
SC	<i>Asperula gemella</i>	Twin-leaf Bedstraw

Recruitment:

Continuous

Organic Litter:

5% cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
SH	<i>Phyla canescens</i>	Lippia	high	high

EVC 104: Lignum Swamp - Goldfields bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 125: Plains Grassy Wetland

Description:

This EVC is usually treeless, but in some instances can include sparse or River Red Gum *Eucalyptus camaldulensis*. A sparse shrub component may also be present. The characteristic ground cover is dominated by grasses and small sedges and herbs. The vegetation is typically species-rich on the outer verges but is usually species-poor in the wetter central areas.

Life forms:

Life form	#Spp	%Cover	LF code
Large Herb	5	5%	LH
Medium Herb	11	20%	MH
Small or Prostrate Herb	6	10%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	7	20%	MTG
Medium to Tiny Non-tufted Graminoid	3	30%	MNG
Bryophytes/Lichens	na	10%	BL

LF Code

Species typical of at least part of EVC range

Common Name

LH	<i>Rumex dumosus</i>	Wiry Dock
LH	<i>Brachyscome basaltica</i> var. <i>gracilis</i>	Woodland Swamp-daisy
LH	<i>Epilobium hirtigerum</i>	Hairy Willow-herb
LH	<i>Eryngium ovium</i>	Blue Devil
MH	<i>Craspedia glauca</i> spp. agg.	Common Billy-buttons
MH	<i>Potamogeton tricarlinatus</i> s.l.	Floating Pondweed
MH	<i>Marsilea drummondii</i>	Common Nardoo
SH	<i>Lobelia concolor</i>	Poison Pratia
SH	<i>Limosella australis</i>	Austral Mudwort
SH	<i>Myriocephalus rhizocephalus</i>	Woolly-heads
SH	<i>Neopaxia australasica</i>	White Purslane
LTG	<i>Amphibromus nervosus</i>	Common Swamp Wallaby-grass
LTG	<i>Juncus flavidus</i>	Gold Rush
MTG	<i>Austrodanthonia duttoniana</i>	Brown-back Wallaby-grass
MTG	<i>Juncus holoschoenus</i>	Joint-leaf Rush
MTG	<i>Carex inversa</i>	Knob Sedge
MTG	<i>Amphibromus macrorhinus</i>	Long-nosed Swamp Wallaby-grass
MNG	<i>Eleocharis acuta</i>	Common Spike-sedge
MNG	<i>Eragrostis infecunda</i>	Southern Cane-grass

Recruitment:

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

Organic Litter:

10% cover

Logs:

5 m/0.1 ha.(where trees are overhanging the wetland)

EVC 125: Plains Grassy Wetland - Goldfields bioregion

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
LNG	<i>Avena fatua</i>	Wild Oat	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Critesion hystrix</i>	Mediterranean Barley-grass	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 127: Valley Heathy Forest

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus melliodora</i>	Yellow Box
	<i>Eucalyptus goniocalyx</i> s.l.	Bundy
	<i>Eucalyptus macrorhyncha</i>	Red Stringybark

Understorey:

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

EVC 127: Valley Heathy Forest - Goldfields bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Exocarpos cupressiformis</i>	Cherry Ballart
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Cassinia aculeata</i>	Common Cassinia
MS	<i>Daviesia leptophylla</i>	Narrow-leaf Bitter-pea
MS	<i>Cassinia arcuata</i>	Drooping Cassinia
SS	<i>Platylobium obtusangulum</i>	Common Flat-pea
SS	<i>Dillwynia cinerascens</i> s.l.	Grey Parrot-pea
SS	<i>Hovea heterophylla</i>	Common Hovea
SS	<i>Pimelea humilis</i>	Common Rice-flower
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
MH	<i>Leptorhynchos tenuifolius</i>	Wiry Buttons
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Helichrysum scorpioides</i>	Button Everlasting
SH	<i>Opercularia varia</i>	Variable Stinkweed
SH	<i>Drosera whittakeri</i> ssp. <i>aberrans</i>	Scented Sundew
SH	<i>Oxalis corniculata</i> s.l.	Yellow Wood-sorrel
LTG	<i>Xanthorrhoea minor</i> ssp. <i>lutea</i>	Small Grass-tree
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Joycea pallida</i>	Silvertop Wallaby-grass
MTG	<i>Poa morrisii</i>	Soft Tussock-grass
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Lindsaea linearis</i>	Screw Fern
SC	<i>Billardiera scandens</i>	Common Apple-berry
SC	<i>Hardenbergia violacea</i>	Purple Coral-pea

Recruitment:

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

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 164: Creekline Herb-rich Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus ovata</i>	Swamp Gum
	<i>Eucalyptus camaldulensis</i>	River Red Gum
	<i>Eucalyptus aromaphloia</i>	Scentbark

Life Forms:

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

EVC 164: Creekline Herb-rich Woodland - Goldfields bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia mearnsii</i>	Black Wattle
MS	<i>Bursaria spinosa</i>	Sweet Bursaria
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Drosera peltata</i>	Pale Sundew
MH	<i>Poranthera microphylla</i>	Small Poranthera
SH	<i>Dichondra repens</i>	Kidney-weed
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Poa clelandii</i>	Noah's Ark
MTG	<i>Pentapogon quadrifidus</i>	Five-awned Spear-grass
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass

Recruitment:
Continuous

Organic Litter:
20 % cover

Logs:
10 m/0.1 ha.

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 175_61: *Low Rises* 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 diverse but sparse in cover. In the Goldfields bioregion, Grassy Woodland occurs on sedimentary soils on the lowest slopes at the interface between the plains and the infertile woodlands of the sedimentary hills.

Large trees:

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

Tree Canopy Cover:

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

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	6	15%	MS
Small Shrub	3	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	4	10%	LH
Medium Herb	10	15%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	11	25%	MTG
Medium to Tiny Non-tufted Graminoid	3	5%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

LF Code

Species typical of at least part of EVC range

Common Name

MS	<i>Cassinia arcuata</i>	Drooping Cassinia
MS	<i>Acacia pycnantha</i>	Golden Wattle
MS	<i>Acacia acinacea</i> s.l.	Gold-dust Wattle
MS	<i>Dodonaea viscosa</i> ssp. <i>cuneata</i>	Wedge-leaf Hop-bush
PS	<i>Astroloma humifusum</i>	Cranberry Heath
SS	<i>Pultenaea largiflorens</i>	Twiggy Bush-pea
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Eutaxia microphylla</i> var. <i>microphylla</i>	Common Eutaxia
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Xerochrysum viscosum</i>	Shiny Everlasting
LH	<i>Chrysocephalum semipapposum</i>	Clustered Everlasting
LH	<i>Wahlenbergia luteola</i>	Bronze Bluebell
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
MH	<i>Veronica plebeia</i>	Trailing Speedwell
MH	<i>Daucus glochidiatus</i>	Australian Carrot
MH	<i>Einadia nutans</i> ssp. <i>nutans</i>	Nodding Saltbush
MH	<i>Vittadinia cuneata</i>	Fuzzy New Holland Daisy
SH	<i>Crassula sieberiana</i>	Sieber Crassula
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
MTG	<i>Elymus scaber</i> var. <i>scaber</i>	Common Wheat-grass
MTG	<i>Austrostipa scabra</i> ssp. <i>falcata</i>	Rough Spear-grass
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Austroanthonia setacea</i>	Bristly Wallaby-grass
MNG	<i>Austrostipa elegantissima</i>	Feather Spear-grass
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily
SC	<i>Convolvulus erubescens</i> spp. agg.	Pink Bindweed

EVC 175_61: *Low Rises* Grassy Woodland - Goldfields bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Petrorhagia velutina</i>	Velvety Pink	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Bromus hordeaceus</i> ssp. <i>hordeaceus</i>	Soft Brome	high	low
MTG	<i>Bromus diandrus</i>	Great Brome	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Aira cupaniana</i>	Quicksilver Grass	high	low
MNG	<i>Vulpia myuros</i>	Rat's-tail Fescue	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 175_62: *Granitic* Grassy Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus rubida</i>	Candlebark
	<i>Eucalyptus viminalis</i>	Manna Gum
	<i>Eucalyptus camaldulensis</i>	River Red Gum
	<i>Eucalyptus ovata</i>	Swamp Gum

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	2	15%	MS
Small Shrub	1	1%	SS
Prostrate Shrub	1	1%	PS
Medium Herb	8	20%	MH
Small or Prostrate Herb	3	10%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	8	40%	MTG
Medium to Tiny Non-tufted Graminoid	1	5%	MNG
Ground Fern	1	5%	GF
Bryophytes/Lichens	na	10%	BL

LF Code

Species typical of at least part of EVC range

Common Name

T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Acacia implexa</i>	Lightwood
MS	<i>Acacia pycnantha</i>	Golden Wattle
MS	<i>Acacia paradoxa</i>	Hedge Wattle
MS	<i>Cassinia arcuata</i>	Drooping Cassinia
SS	<i>Pimelea humilis</i>	Common Rice-flower
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Drosera peltata</i> ssp. <i>auriculata</i>	Tall Sundew
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
MH	<i>Chrysocephalum apiculatum</i> s.l.	Common Everlasting
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Opercularia varia</i>	Variable Stinkweed
SH	<i>Drosera whittakeri</i> ssp. <i>aberrans</i>	Scented Sundew
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken

EVC 175_62: *Granitic* Grassy Woodland - Goldfields bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MNG	<i>Vulpia myuros</i>	Rat's-tail Fescue	high	low
MNG	<i>Aira cupaniana</i>	Quicksilver Grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 198: Sedgy Riparian Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

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

Understorey:

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

LF Code

Species typical of at least part of EVC range

Common Name

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

EVC 198: Sedgy Riparian Woodland - Goldfields bioregion

Recruitment:

Continuous

Organic Litter:

30 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high
MTG	<i>Agrostis capillaris</i> s.l.	Brown-top Bent	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

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

Description:

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

Large trees:

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

Tree Canopy Cover:

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

Understorey:

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

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

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

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
MH	<i>Arctotheca calendula</i>	Cape Weed	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
TTG	<i>Cyperus tenellus</i>	Tiny Flat-sedge	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 264: Sand Ridge Woodland

Description:

Open pine-box woodland to 15 m tall with a small or medium shrub layer of variable density and including a range of annual herbs, grasses and geophytes, in the dense ground layer. Occupies distinctive sandy rises (or sand mounts) adjacent to major rivers and wetlands. Very sandy, deep, free draining, moderately fertile soil, developed on sand blown up by wind action from a prior stream bed.

Large trees:

Species	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	70 cm	15 / ha
<i>Callitris glaucophylla</i>	40 cm	
<i>Allocasuarina luehmannii</i>	40 cm	

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus melliodora</i>	Yellow Box
	<i>Callitris glaucophylla</i>	White Cypress-pine
	<i>Allocasuarina luehmannii</i>	Buloke

Understorey:

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

LF Code

Species typical of at least part of EVC range

Common Name

MS	<i>Dodonaea viscosa</i>	Sticky Hop-bush
MS	<i>Banksia marginata</i>	Silver Banksia
SS	<i>Pultenaea tenuifolia</i>	Slender Bush-pea
SS	<i>Hibbertia riparia</i>	Erect Guinea-flower
PS	<i>Kennedia prostrata</i>	Running Postman
LH	<i>Senecio quadridentatus</i>	Cottony Fireweed
LH	<i>Senecio tenuiflorus</i>	Narrow-leaf Groundsel
MH	<i>Wahlenbergia gracilis</i> s.l.	Sprawling Bluebell
MH	<i>Wahlenbergia luteola</i>	Tufted Bluebell
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
SH	<i>Crassula sieberiana</i>	Sieber Crassula
SH	<i>Millotia tenuifolia</i> var. <i>tenuifolia</i>	Soft Millotia
SH	<i>Euchiton sphaericus</i>	Annual Cudweed
SH	<i>Stuartina muelleri</i>	Spoon Cudweed
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
LTG	<i>Dichelachne crinita</i>	Long-hair Plume-grass
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Elymus scaber</i> var. <i>scaber</i>	Common Wheat-grass
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Cassytha pubescens</i> s.s.	Downy Dodder-laurel

EVC 264: Sand Ridge Woodland - Goldfields bioregion

Recruitment:

Continuous

Organic Litter:

10 % cover

Logs:

15 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Chrysanthemoides monilifera</i>	Boneseed	high	high
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MTG	<i>Bromus diandrus</i>	Great Brome	high	low
MNG	<i>Vulpia bromoides</i>	Rat's-tail Fescue	high	low
MNG	<i>Vulpia muralis</i>	Wall Fescue	high	low
MNG	<i>Vulpia myuros</i> f. <i>myuros</i>	Rat's-tail Fescue	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Aira caryophylla</i>	Silvery Hair-grass	high	low
MNG	<i>Ehrharta calycina</i>	Perennial Veldt-grass	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 282: Shrubby Woodland

Description:

Eucalypt woodland to 15 m tall with a tall and often dense shrubby understorey. Ground cover variously dominated by sedges, grasses and herbs. Soils generally duplex with sandy loam overlying heavy clay subsoil, prone to seasonal inundation periods. Commonly found on valley floors.

Large trees:

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

Tree Canopy Cover:

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

Understorey:

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

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

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

Weediness:

There are no consistent weeds in this EVC.

EVC 282: Shrubby Woodland - Goldfields bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

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

Tree Canopy Cover:

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

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	10%	T
Medium Herb	1	15%	MH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	2	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	40%	MNG
Bryophytes/Lichens	na	10%	BL
Total understorey projective foliage cover		90%	

LF Code	Species typical of at least part of EVC range	Common Name
MH	<i>Potamogeton tricarlinatus</i> s.l.	Floating Pondweed
MH	<i>Gratiola peruviana</i>	Austral Brooklime
SH	<i>Lobelia pratioides</i>	Poison Lobelia
LTG	<i>Juncus flavidus</i>	Gold Rush
LTG	<i>Carex tereticaulis</i>	Hollow Sedge
MTG	<i>Triglochin procerum</i> s.l.	Water Ribbons
MTG	<i>Whalleya proluta</i>	Rigid Panic
MTG	<i>Lachnagrostis filiformis</i> var. <i>filiformis</i>	Common Blown-grass
MNG	<i>Eleocharis acuta</i>	Common Spike-sedge
MNG	<i>Eragrostis infecunda</i>	Southern Cane-grass

Recruitment:

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

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
SH	<i>Callitriche hamulata</i>	Thread Water-starwort	high	low

EVC 292: Red Gum Swamp - Goldfields bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

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

Tree Canopy Cover:

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

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Small Shrub	1	1%	SS
Medium Herb	2	1%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	5	20%	MTG
Medium to Tiny Non-tufted Graminoid	2	20%	MNG
Bryophytes/Lichens	na	10%	BL
Total understorey projective foliage cover		65%	

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
MH	<i>Sida corrugata</i>	Variable Sida
MH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
SH	<i>Chamaesyce drummondii</i>	Flat Spurge
SH	<i>Azolla filiculoides</i>	Pacific Azolla
LTG	<i>Austrostipa gibbosa</i>	Spurred Spear-grass
LTG	<i>Carex tereticaulis</i>	Hollow Sedge
MTG	<i>Chloris truncata</i>	Windmill Grass
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Aristida behriana</i>	Brush Wire-grass
MTG	<i>Elymus scaber</i> var. <i>scaber</i>	Common Wheat-grass
MNG	<i>Pseudoraphis spinescens</i>	Spiny Mud-grass
MNG	<i>Eleocharis acuta</i>	Common Spike-sedge

Recruitment:

Continuous

Organic Litter:

10 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
MTG	<i>Lolium rigidum</i>	Wimmera Rye-grass	high	low

EVC 295: Riverine Grassy Woodland - Goldfields bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 641: Riparian Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

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

Understorey:

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

LF Code

Species typical of at least part of EVC range

Common Name

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

EVC 641: Riparian Woodland - Goldfields bioregion

Recruitment:

Continuous

Organic Litter:

30% cover

Logs:

20m / 0.1 ha

Weediness:

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 679: Drainage-line Woodland

Description:

Eucalypt-dominated woodland to 15 m tall 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.

Large trees:

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

Tree Canopy Cover:

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

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Large Herb	2	5%	LH
Medium Herb	9	15%	MH
Small Herb	3	5%	SH
Large Tufted Graminoid	2	10%	LTG
Medium to Small Tufted Graminoid	16	30%	MTG
Medium to Tiny Non-tufted Graminoid	3	5%	MNG
Bryophytes/Lichens	na	10%	BL
Total understorey projective foliage cover		90%	

LF Code	Character Species	Common Name
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Hypericum gramineum</i>	Small St John's Wort
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG	<i>Austrostipa rudis</i>	Veined Spear-grass
LTG	<i>Carex tereticaulis</i>	Rush Sedge
MTG	<i>Elymus scaber</i> var. <i>scaber</i>	Common Wheat-grass
MTG	<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass
MTG	<i>Juncus remotiflorus</i>	Diffuse Rush
MTG	<i>Carex appressa</i>	Tall Sedge
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

30 m/0.1 ha.

EVC 679: Drainage-line Woodland - Goldfields bioregion

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Galium murale</i>	Small Goosegrass	high	low
MH	<i>Oxalis pes-caprae</i>	Soursob	high	high
LTG	<i>Juncus acutus</i>	Spiny Rush	high	high
LTG	<i>Phalaris aquatica</i>	Toowoomba Canary-grass	high	high
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Bromus hordeaceus</i> ssp. <i>hordeaceus</i>	Soft Brome	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Vulpia muralis</i>	Wall Fescue	high	low
MNG	<i>Bromus madritensis</i>	Madrid Brome	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 704: Lateritic Woodland

Description:

Low woodland to 15 m tall with a diverse shrubby understorey and supporting a wide variety of grasses and herbs, making it particularly species-rich. Occurs on gently undulating to flat ground with well-drained shallow lateritic soils of poor fertility.

Large trees:

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

Tree Canopy Cover:

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

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	11	25%	MS
Small Shrub	11	20%	SS
Prostrate Shrub	4	5%	PS
Large Herb	2	5%	LH
Medium Herb	14	10%	MH
Small or Prostrate Herb	4	5%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	15	20%	MTG
Medium to Tiny Non-tufted Graminoid	4	5%	MNG
Tiny Tufted Graminoid*	4	1%	TTG
Scrambler or Climber	3	5%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

* Largely seasonal life form

Recruitment:

Continuous

Organic Litter:

20% cover

Logs:

15 m / 0.1 ha

EVC 704: Lateritic Woodland - Goldfields bioregion

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

Weediness:

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields 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 poorly drained, fertile soils on flat or gently undulating plains at low elevations. The understorey consists of a few sparse shrubs over a species-rich grassy and herbaceous ground layer.

Large trees:

Species	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	70 cm	15 / ha
<i>Allocasuarina</i> spp.	40 cm	

Tree Canopy Cover:

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

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	1	5%	MS
Small Shrub	1	1%	SS
Large Herb	3	5%	LH
Medium Herb	10	30%	MH
Small or Prostrate Herb	3	10%	SH
Medium to Small Tufted Graminoid	18	40%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Acacia acinacea</i> s.l.	Gold-dust Wattle
MS	<i>Acacia pycnantha</i>	Golden Wattle
SS	<i>Lissanthe strigosa</i> ssp. <i>subulata</i>	Peach Heath
LH	<i>Wahlenbergia luteola</i>	Bronze Bluebell
LH	<i>Wahlenbergia communis</i> s.l.	Tufted Bluebell
MH	<i>Brachyscome lineariloba</i>	Hard-head Daisy
SH	<i>Drosera whittakeri</i> ssp. <i>aberrans</i>	Scented Sundew
SH	<i>Ptilotus spathulatus</i> f. <i>spathulatus</i>	Pussy Tails
SH	<i>Drosera glanduligera</i>	Scarlet Sundew
SH	<i>Siloxerus multiflorus</i>	Small Wrinklewort
MTG	<i>Austrostipa scabra</i> ssp. <i>falcata</i>	Rough Spear-grass
MTG	<i>Elymus scaber</i> var. <i>scaber</i>	Common Wheat-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass

Recruitment:

Continuous

Organic Litter:

10 % cover

Logs:

10 m/0.1 ha.

EVC 803: Plains Woodland (*syn. Riverina Plains Grassy Woodland*) - Goldfields bioregion

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Centaurium tenuiflorum</i>	Slender Centaury	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Galium divaricatum</i>	Slender Bedstraw	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Trifolium campestre var. campestre</i>	Hop Clover	high	low
MH	<i>Cicendia quadrangularis</i>	Square Cicendia	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
LNG	<i>Avena fatua</i>	Wild Oat	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Bromus diandrus</i>	Great Brome	high	low
MTG	<i>Bromus hordeaceus ssp. hordeaceus</i>	Soft Brome	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields 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 water-logging. 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 trees:

Species	DBH(cm)	#/ha
<i>Eucalyptus camaldulensis</i>	70 cm	15 / ha
<i>Eucalyptus largiflorens</i>	50 cm	

Tree Canopy Cover:

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

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Large Herb	2	5%	LH
Medium Herb	3	10%	MH
Small or Prostrate Herb	1	5%	SH
Large Tufted Graminoid	3	10%	LTG
Medium to Small Tufted Graminoid	2	10%	MTG
Medium to Tiny Non-tufted Graminoid	3	20%	MNG
Total understorey projective foliage cover		65%	

LF Code	Species typical of at least part of EVC range	Common Name
LH	<i>Wahlenbergia fluminalis</i>	River Bluebell
LH	<i>Brachyscome basaltica</i> var. <i>gracilis</i>	Woodland Swamp-daisy
MH	<i>Marsilea drummondii</i>	Common Nardoo
SH	<i>Lobelia concolor</i>	Poison Pratia
LTG	<i>Amphibromus nervosus</i>	Common Swamp Wallaby-grass
LTG	<i>Carex tereticaulis</i>	Rush Sedge
MTG	<i>Austrodanthonia duttoniana</i>	Brown-back Wallaby-grass
MNG	<i>Eleocharis acuta</i>	Common Spike-sedge
MNG	<i>Eleocharis pusilla</i>	Small Spike-sedge

Recruitment:

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

Organic Litter:

10% cover

Logs:

10 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
LNG	<i>Avena fatua</i>	Wild Oat	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Critetion hystrix</i>	Mediterranean Barley-grass	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low

EVC 815: Riverine Swampy Woodland - Goldfields bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 851: Stream-Bank Shrubland

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
10%	<i>Eucalyptus globulus</i> ssp. <i>pseudoglobulus</i>	Gippsland Blue-gum

Understorey:

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

EVC 851: Stream-Bank Shrubland - Goldfields bioregion

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

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

10 m/0.1 ha.

Weediness:

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Goldfields bioregion

EVC 894: Scoria Cone Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

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

Understorey:

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

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Bursaria spinosa</i>	Sweet Bursaria
LH	<i>Senecio pinnatifolius</i>	Variable Groundsel
LH	<i>Rumex brownii</i>	Wiry Dock
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
MH	<i>Geranium potentilloides</i>	Cinquefoil Cranesbill
MH	<i>Acaena echinata</i>	Sheep's Burr
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Oxalis exilis</i>	Shady Wood-sorrel
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MTG	<i>Carex breviculmis</i>	Short-stem Sedge
MTG	<i>Austrodanthonia pilosa</i>	Velvet Wallaby-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken

EVC 894: Scoria Cone Woodland – Goldfields bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

10 m/0.1 ha

Weediness:

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

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