

EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain 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 baxteri</i> s.s.	Brown Stringybark
	<i>Eucalyptus viminalis</i> ssp. <i>cygnetensis</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	4	5%	MS
Small Shrub	3	5%	SS
Prostrate Shrub	2	5%	PS
Large Herb	3	5%	LH
Medium Herb	10	15%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	10%	LTG
Large Non-tufted Graminoid	1	15%	LNG
Medium to Small Tufted Graminoid	7	15%	MTG
Medium to Tiny Non-tufted Graminoid	3	5%	MNG
Ground Fern	1	5%	GF
Scrambler or Climber	2	1%	SC
Bryophytes/Lichens	na	10%	BL

EVC 3: Damp Sands Herb-rich Woodland - Glenelg Plain bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Leucopogon parviflorus</i>	Coast Beard-heath
MS	<i>Spyridium parvifolium</i>	Dusty Miller
MS	<i>Leucopogon lanceolatus</i> var. <i>lanceolatus</i>	Lance Beard-heath
SS	<i>Hibbertia sericea</i> s.l.	Silky Guinea-flower
SS	<i>Amperea xiphoclada</i> var. <i>xiphoclada</i>	Broom Spurge
SS	<i>Pimelea humilis</i>	Common Rice-flower
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	r <i>Boronia nana</i> var. <i>nana</i>	Dwarf Boronia
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Senecio glomeratus</i>	Annual Fireweed
MH	<i>Veronica calycina</i>	Hairy Speedwell
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
MH	<i>Brunonia australis</i>	Blue Pincushion
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Opercularia varia</i>	Variable Stinkweed
SH	<i>Kennedia prostrata</i>	Running Postman
LTG	<i>Xanthorrhoea minor</i> ssp. <i>lutea</i>	Small Grass-tree
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
MTG	<i>Dianella revoluta</i> s.s.	Black-anther Flax-lily
MTG	<i>Luzula meridionalis</i>	Common Woodrush
MTG	<i>Dichelachne crinita</i>	Long-hair Plume-grass
MTG	<i>Lomandra nana</i>	Dwarf Mat-rush
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Ficinia nodosa</i>	Knobby Club-sedge
TTG	<i>Centrolepis strigosa</i> ssp. <i>strigosa</i>	Hairy Centrolepis
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Billardiera scandens</i>	Common Apple-berry
SC	<i>Galium australe</i>	Tangled Bedstraw

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

15 m/0.1 ha.

Weediness:

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 6: Sand Heathland

Description:

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

Understorey:

Life form	#Spp	%Cover	LF code
Medium Shrub	7	30%	MS
Small Shrub	8	20%	SS
Prostrate Shrub	3	5%	PS
Medium Herb	5	10%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	4	10%	MTG
Medium to Tiny Non-tufted Graminoid	3	20%	MNG
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Leptospermum myrsinoides</i>	Heath Tea-tree
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
SS	<i>Dillwynia glaberrima</i>	Smooth Parrot-pea
SS	<i>Isopogon ceratophyllus</i>	Horny Cone-bush
SS	<i>Hibbertia sericea s.l.</i>	Silky Guinea-flower
SS	<i>Boronia pilosa</i>	Hairy Boronia
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Xanthosia dissecta s.l.</i>	Cut-leaf Xanthosia
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Burchardia umbellata</i>	Milkmaids
MH	<i>Stackhousia monogyna</i>	Creamy Stackhousia
MH	<i>Chamaescilla corymbosa var. corymbosa</i>	Blue Stars
SH	<i>Drosera whittakeri ssp. aberrans</i>	Scented Sundew
SH	<i>Opercularia varia</i>	Variable Stinkweed
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
MTG	<i>Patersonia fragilis</i>	Short Purple-flag
MTG	<i>Tetraria capillaris</i>	Hair Sedge
MTG	<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass
MNG	<i>Hypolaena fastigiata</i>	Tassel Rope-rush
MNG	<i>Baumea juncea</i>	Bare Twig-sedge
SC	<i>Cassytha glabella</i>	Slender Dodder-laurel
SC	<i>Cassytha pubescens s.s.</i>	Downy Dodder-laurel

Recruitment:

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

Organic Litter:

20% cover

Weediness:

There are no consistent weeds in this EVC.

EVC 6: Sand Heathland - Glenelg Plain bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 8: Wet Heathland

Description:

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

Life forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	7	40%	MS
Small Shrub	4	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	2	5%	LH
Medium Herb	1	5%	MH
Small Herb	2	1%	SH
Large Tufted Graminoid	2	20%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	4	15%	MTG
Medium to Tiny Non-tufted Graminoid	3	10%	MNG
Ground Fern	1	1%	GF
Scrambler or Climber	1	5%	SC
Bryophytes/Lichens	na	20%	BL

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Sprengelia incarnata</i>	Pink Swamp-heath
MS	<i>Melaleuca squarrosa</i>	Scented Paperbark
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Banksia marginata</i>	Silver Banksia
SS	<i>Hibbertia riparia</i>	Erect Guinea-flower
SS	<i>Epacris lanuginosa</i>	Woolly-style Heath
SS	<i>Hibbertia stricta s.l.</i>	Upright Guinea-flower
SS	<i>Boronia parviflora</i>	Swamp Boronia
PS	<i>Xanthosia dissecta s.l.</i>	Cut-leaf Xanthosia
LH	<i>Xyris operculata</i>	Tall Yellow-eye
LH	<i>Villarsia reniformis</i>	Running Marsh-flower
MH	<i>Argentipallium obtusifolium</i>	Blunt Everlasting
MH	<i>Viola sieberiana spp. agg.</i>	Tiny Violet
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
SH	<i>Gonocarpus micranthus ssp. micranthus</i>	Creeping Raspwort
SH	<i>Drosera pygmaea</i>	Tiny Sundew
LTG	<i>Gymnoschoenus sphaerocephalus</i>	Button Grass
LTG	<i>Xanthorrhoea caespitosa</i>	Tufted Grass-tree
LTG	<i>Xanthorrhoea minor ssp. lutea</i>	Small Grass-tree
LNG	<i>Austrostipa muelleri</i>	Wiry Spear-grass
LNG	<i>Lepidosperma longitudinale</i>	Pithy Sword-sedge
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MTG	<i>Patersonia fragilis</i>	Short Purple-flag
MTG	<i>Stylidium graminifolium s.l.</i>	Grass Trigger-plant
MTG	<i>Tetraria capillaris</i>	Hair Sedge
MNG	<i>Leptocarpus tenax</i>	Slender Twine-rush
MNG	<i>Empodisma minus</i>	Spreading Rope-rush
MNG	<i>Sporadanthus tasmanicus</i>	Branching Scale-rush
MNG	<i>Lepyrodia muelleri</i>	Common Scale-rush
GF	<i>Lindsaea linearis</i>	Screw Fern
SC	<i>Gleichenia microphylla</i>	Scrambling Coral-fern
SC	<i>Cassytha glabella</i>	Slender Dodder-laurel

EVC 8: Wet Heathland - Glenelg Plain bioregion

Recruitment:

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

Organic Litter:

20% cover

Weediness:

There are no consistent weeds in this EVC.

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 13: Brackish Sedgeland

Description:

Sedgeland dominated by moisture-dependent sedges with a grassy or herbaceous ground-layer. Sedges present are usually indicative of saline sites, but ground-layer is depauperate with few if any true halophytic species.

Life Forms:

Life form	#Spp	%Cover	LF code
Large Herb	1	5%	LH
Medium Herb	5	10%	MH
Small or Prostrate Herb*	5	5%	SH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	4	10%	MTG
Tiny Tufted Graminoid*	3	5%	TTG
Medium to Tiny Non-tufted Graminoid	3	50%	MNG

* largely seasonal life form

Total understorey projective foliage cover

90%

LF Code	Species typical of at least part of EVC range	Common Name
LH	<i>Villarsia reniformis</i>	Running Marsh-flower
LH	<i>Senecio glomeratus</i>	Annual Fireweed
MH	<i>Samolus repens</i>	Creeping Brookweed
MH	<i>Lobelia anceps</i>	Angled Lobelia
MH	<i>Utricularia tenella</i>	Pink Bladderwort
MH	<i>Leptorhynchus squamatus</i>	Scaly Buttons
SH	<i>Selliera radicans</i>	Shiny Swamp-mat
SH	<i>Stylidium inundatum</i>	Hundreds and Thousands
SH	<i>Sebaea albidiflora</i>	White Sebaea
SH	<i>Ranunculus robertsonii</i>	Slender Buttercup
LTG	<i>Gahnia filum</i>	Chaffy Saw-sedge
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MTG	<i>Lomandra sororia</i>	Small Mat-rush
MTG	<i>Lomandra micrantha</i> s.l.	Small-flower Mat-rush
MTG	<i>Juncus bufonius</i>	Toad Rush
TTG	<i>Centrolepis strigosa</i> ssp. <i>strigosa</i>	Hairy Centrolepis
TTG	<i>Centrolepis aristata</i>	Pointed Centrolepis
TTG	<i>Centrolepis polygyna</i>	Wiry Centrolepis
MNG	<i>Leptocarpus brownii</i>	Coarse Twine-rush
MNG	<i>Hemarthria uncinata</i> var. <i>uncinata</i>	Mat Grass
MNG	<i>Baumea juncea</i>	Bare Twig-sedge
MNG	<i>Distichlis distichophylla</i>	Australian Salt-grass

Recruitment:

Episodic/Flood: desirable period of disturbance is every five years

Organic Litter:

10% cover

Weediness:

There are no consistent weeds in this EVC.

EVC 13: Brackish Sedgeland - Glenelg Plain bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 16: Lowland Forest

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus willisii</i>	Jimmy's Shining Peppermint
	<i>Eucalyptus obliqua</i>	Messmate Stringybark
	<i>Eucalyptus baxteri</i> s.l.	Brown Stringybark

Understorey:

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

EVC 16: Lowland Forest - Glenelg Plain bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Acacia verticillata</i>	Prickly Moses
MS	<i>Hakea rostrata</i>	Beaked Hakea
SS	<i>Tetradlea ciliata</i>	Pink-bells
SS	<i>Hibbertia riparia</i>	Erect Guinea-flower
SS	<i>Hovea heterophylla</i>	Common Hovea
SS	<i>Pultenaea stricta</i>	Rigid Bush-pea
PS	<i>Xanthosia pusilla</i> spp. agg.	Heath Xanthosia
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	r <i>Boronia nana</i> var. <i>nana</i>	Dwarf Boronia
PS	<i>Xanthosia dissecta</i> s.l.	Cut-leaf Xanthosia
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Hypericum gramineum</i>	Small St John's Wort
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
MH	<i>Veronica calycina</i>	Hairy Speedwell
SH	<i>Opercularia varia</i>	Variable Stinkweed
SH	<i>Kennedia prostrata</i>	Running Postman
SH	<i>Leptostigma reptans</i>	Dwarf Nertera
SH	<i>Opercularia ovata</i>	Broad-leaf Stinkweed
LTG	<i>Xanthorrhoea minor</i> ssp. <i>lutea</i>	Small Grass-tree
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
LTG	<i>Austrostipa pubinodis</i>	Tall Spear-grass
LNG	<i>Austrostipa muelleri</i>	Wiry Spear-grass
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Poa sieberiana</i> var. <i>sieberiana</i>	Grey Tussock-grass
MTG	<i>Dianella revoluta</i> s.s.	Black-anther Flax-lily
MTG	<i>Dichelachne crinita</i>	Long-hair Plume-grass
MTG	<i>Lomandra sororia</i>	Small Mat-rush
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Lindsaea linearis</i>	Screw Fern
EP	<i>Cassytha glabella</i>	Slender Dodder-laurel
SC	<i>Billardiera scandens</i> var. <i>scandens</i>	Common Apple-berry
SC	<i>Comesperma volubile</i>	Love Creeper

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Centaureum tenuiflorum</i>	Slender Centaury	low	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 18: Riparian Forest

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus viminalis</i>	Manna Gum
	<i>Eucalyptus ovata</i>	Swamp Gum

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	3	25%	T
Medium Shrub	4	15%	MS
Large Herb	1	1%	LH
Medium Herb	4	10%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	3	10%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	5	30%	GF
Tree Fern	1	5%	TRF
Epiphyte	2	1%	EP
Scrambler or Climber	2	1%	SC
Bryophytes/Lichens	na	10%	BL

EVC 18: Riparian Forest - Glenelg Plain bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Pomaderris aspera</i>	Hazel Pomaderris
T	<i>Pittosporum bicolor</i>	Banyalla
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Melaleuca squarrosa</i>	Scented Paperbark
MS	<i>Hedycarya angustifolia</i>	Austral Mulberry
MS	<i>Solanum aviculare</i>	Kangaroo Apple
LH	<i>Urtica incisa</i>	Scrub Nettle
LH	<i>Senecio minimus</i>	Shrubby Fireweed
MH	<i>Scutellaria humilis</i>	Dwarf Skullcap
MH	<i>Lobelia anceps</i>	Angled Lobelia
MH	<i>Australina pusilla ssp. muelleri</i>	Shade Nettle
MH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
SH	<i>Lobelia pedunculata s.l.</i>	Matted Pratia
SH	<i>Oxalis exilis</i>	Shady Wood-sorrel
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Callitriche muelleri</i>	Round Water-starwort
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LTG	<i>Carex appressa</i>	Tall Sedge
LTG	<i>Lepidosperma laterale var. majus</i>	Variable Sword-sedge
LTG	<i>Baloskion tetraphyllum ssp. tetraphyllum</i>	Tassel Cord-rush
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Juncus pauciflorus</i>	Loose-flower Rush
MTG	<i>Isolepis wakefieldiana</i>	Tufted Club-sedge
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
GF	<i>Blechnum nudum</i>	Fishbone Water-fern
GF	<i>Hypolepis rugosula</i>	Ruddy Ground-fern
GF	<i>Gleichenia microphylla</i>	Scrambling Coral-fern
GF	<i>Blechnum wattsii</i>	Hard Water-fern
TRF	<i>Todea barbara</i>	Austral King-fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
EP	<i>Microsorium pustulatum ssp. pustulatum</i>	Kangaroo Fern
EP	<i>Hymenophyllum cupressiforme</i>	Common Filmy Fern
SC	<i>Parsonsia brownii</i>	Twining Silkpod
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Calystegia marginata</i>	Forest Bindweed

Recruitment:

Continuous

Organic Litter:

50 % cover

Logs:

30 m/0.1 ha.

Weediness:

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain 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 ovata</i>	Swamp Gum
	<i>Eucalyptus viminalis</i> ssp. <i>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	5	15%	MS
Small Shrub	1	1%	SS
Prostrate Shrub	1	1%	PS
Large Herb	3	5%	LH
Medium Herb	10	20%	MH
Small or Prostrate Herb	5	5%	SH
Large Tufted Graminoid	3	5%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	10	20%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
Ground Fern	3	10%	GF
Bryophytes/Lichens	na	20%	BL

EVC 23: Herb-rich Foothill Forest - Glenelg Plain bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Pomaderris aspera</i>	Hazel Pomaderris
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Bursaria spinosa</i> ssp. <i>spinosa</i>	Sweet Bursaria
MS	<i>Leucopogon parviflorus</i>	Coast Beard-heath
MS	<i>Leucopogon lanceolatus</i> var. <i>lanceolatus</i>	Lance Beard-heath
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Dillwynia glaberrima</i>	Smooth Parrot-pea
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Sigesbeckia orientalis</i> ssp. <i>orientalis</i>	Indian Weed
MH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
MH	<i>Cynoglossum suaveolens</i>	Sweet Hound's-tongue
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
MH	<i>Geranium potentilloides</i>	Cinquefoil Cranesbill
SH	<i>Leptostigma reptans</i>	Dwarf Nertera
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Opercularia ovata</i>	Broad-leaf Stinkweed
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG	<i>Austrostipa pubinodis</i>	Tall Spear-grass
LTG	<i>Xanthorrhoea minor</i> ssp. <i>lutea</i>	Small Grass-tree
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Lomandra sororia</i>	Small Mat-rush
MTG	<i>Poa labillardierei</i>	Common Tussock-grass
MTG	<i>Pentapogon quadrifidus</i>	Five-awned Spear-grass
MTG	<i>Stylidium graminifolium</i> s.l.	Grass Trigger-plant
MNG	<i>Poa tenera</i>	Slender Tussock-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Adiantum aethiopicum</i>	Common Maidenhair
GF	<i>Lindsaea linearis</i>	Screw Fern
SC	<i>Cassytha pubescens</i> s.s.	Downy Dodder-laurel
SC	<i>Comesperma volubile</i>	Love Creeper

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>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
MNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 30: Wet Forest

Description:

Grows on fertile, well-drained loamy soils on basalt. It is restricted to deep, sheltered gullies where moisture and fertility levels are relatively high. Characterised by a tall eucalypt overstorey to 30 m tall with scattered mid-storey trees over a moist, shaded, fern-rich ground layer dominated by tree-ferns.

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus ovata</i>	Swamp 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
Large Herb	1	1%	LH
Medium Herb	3	5%	MH
Large Tufted Graminoid	2	5%	LTG
Medium Tufted Graminoid	4	5%	MTG
Medium Non-tufted Graminoid	2	5%	MNG
Ground Fern	6	20%	GF
Tree Fern	2	25%	TRF
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	20%	BL

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Pomaderris aspera</i>	Hazel Pomaderris
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Leucopogon lanceolatus</i> var. <i>lanceolatus</i>	Lqnce Beard-heath
MS	<i>Goodenia ovata</i>	Hop Goodenia
SS	<i>Rubus parvifolius</i>	Small-leaf Bramble
LH	<i>Sambucus gaudichaudiana</i>	White Elderberry
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
MH	<i>Gratiola peruviana</i>	Austral Brooklime
SH	<i>Isotoma fluviatilis</i> ssp. <i>australis</i>	Swamp Isotome
LTG	<i>Cyperus lucidus</i>	Leafy Flat-sedge
LTG	<i>Carex appressa</i>	Tall Sedge
MTG	<i>Isolepis platycarpa</i>	Broad-fruit Club-sedge
MTG	<i>Glyceria australis</i>	Australian Sweet-grass
MTG	<i>Isolepis inundata</i>	Swamp Club-sedge
MTG	<i>Lachnagrostis rudis</i>	Ruddy Blown-grass
MNG	<i>Poa tenera</i>	Slender Tussock-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Blechnum nudum</i>	Fishbone Water-fern
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Blechnum wattsii</i>	Hard Water-fern
GF	<i>Blechnum minus</i>	Soft Water-fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
TRF	<i>Todea barbara</i>	Austral King-fern
SC	<i>Clematis aristata</i>	Mountain Clematis

EVC 30: Wet Forest – Glenelg Plain bioregion

Recruitment:

Continuous.

Organic Litter:

50 % cover

Logs:

30 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Crepis capillaris</i>	Smooth Hawksbeard	high	low
LH	<i>Ciclospermum leptophyllum</i>	Slender Celery	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 48: Heathy Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus baxteri</i> s.l. <i>Eucalyptus willisii</i>	Brown Stringybark Jimmy's Shining Peppermint

Understorey:

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

EVC 48: Heathy Woodland - Glenelg Plain bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Leptospermum myrsinoides</i>	Heath Tea-tree
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Correa reflexa</i>	Common Correa
SS	<i>Hibbertia fasciculata</i> var. <i>prostrata</i>	Bundled Guinea-flower
SS	<i>Astroloma conostephioides</i>	Flame Heath
SS	<i>Tetratheca ciliata</i>	Pink-bells
SS	<i>Isopogon ceratophyllus</i>	Horny Cone-bush
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Styphelia adscendens</i>	Golden Heath
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Gompholobium ecostatum</i>	Dwarf Wedge-pea
MH	<i>Goodenia geniculata</i>	Bent Goodenia
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Argentipallium blandowskianum</i>	Woolly Everlasting
SH	<i>Kennedia prostrata</i>	Running Postman
LTG	r <i>Xanthorrhoea caespitosa</i>	Tufted Grass-tree
LNG	<i>Lepidosperma longitudinale</i>	Pithy Sword-sedge
MTG	<i>Stylidium graminifolium</i> s.l.	Grass Trigger-plant
MTG	<i>Lomandra nana</i>	Dwarf Mat-rush
MTG	<i>Poa morrisii</i>	Soft Tussock-grass
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MNG	<i>Hypolaena fastigiata</i>	Tassel Rope-rush
MNG	<i>Lepidobolus drapetocoleus</i>	Scale Shedder
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Cassytha pubescens</i> s.s.	Downy Dodder-laurel

Recruitment:

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

Organic Litter:

40 % cover

Logs:

15 m/0.1 ha.

Weediness:

There are no consistent weeds in this EVC.

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 53: Swamp Scrub

Description:

Closed scrub to 8 m tall at low elevations on alluvial deposits along streams or on poorly drained sites with high nutrient and water availability. Soils vary from organic loams to fine silts and peats which are inundated during the wetter months of the year and is dominated by Woolly Tea-tree *Leptospermum lanigerum* which often forms a dense impenetrable thicket, out-competing other species. Emergent trees (eg. Swamp Gum *Eucalyptus ovata*) may some times be present. Where light penetrates to ground level, a moss/lichen/liverwort herbaceous ground cover is often present.

Canopy Cover:

%cover	Character Species	Common Name
50%	<i>Leptospermum lanigerum</i>	Woolly Tea-tree
	<i>Melaleuca squarrosa</i>	Scented Paperbark
	<i>Acacia melanoxylon</i>	Blackwood
	<i>Acacia mearnsii</i>	Black Wattle

Understorey:

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

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Ozothamnus ferrugineus</i>	Tree Everlasting
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
SS	<i>Rubus parvifolius</i>	Small-leaf Bramble
MH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
SH	<i>Lobelia pedunculata</i> s.l.	Matted Pratia
SH	<i>Hydrocotyle sibthorpioides</i>	Shining Pennywort
SH	<i>Dichondra repens</i>	Kidney-weed
LTG	<i>Gahnia clarkei</i>	Tall Saw-sedge
LTG	<i>Juncus pallidus</i>	Pale Rush
LTG	<i>Carex appressa</i>	Tall Sedge
MTG	<i>Juncus pauciflorus</i>	Loose-flower Rush
MNG	<i>Poa tenera</i>	Slender Tussock-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken

Recruitment:

Continuous

Organic Litter:

40 % cover

EVC 53: Swamp Scrub - Glenelg Plain 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>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
MH	<i>Centaureum erythraea</i>	Common Centaury	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 55: Plains Grassy Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

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

Life Forms:

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

LF Code

Species typical of at least part of EVC range

Common Name

SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Pimelea curviflora s.l.</i>	Curved Rice-flower
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
MH	<i>Drosera peltata ssp. peltata</i>	Pale Sundew
MH	<i>Acaena echinata</i>	Sheep's Burr
MH	<i>Leptorhynchus squamatus</i>	Scaly Buttons
SH	<i>Convolvulus erubescens spp. agg.</i>	Pink Bindweed
SH	<i>Drosera whittakeri ssp. aberrans</i>	Scented Sundew
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Solenogyne dominii</i>	Smooth Solenogyne
LTG	<i>Austrostipa pubinodis</i>	Tall Spear-grass
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Tricoryne elatior</i>	Yellow Rush-lily
MTG	<i>Caesia calliantha</i>	Blue Grass-lily
MNG	<i>Microtis unifolia</i>	Common Onion-orchid
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
TTG	<i>Centrolepis aristata</i>	Pointed Centrolepis
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily

EVC 55: Plains Grassy Woodland - Glenelg Plain bioregion

Recruitment:

Continuous

Organic Litter:

10 % cover

Logs:

10 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Trifolium campestre</i> var. <i>campestre</i>	Hop Clover	high	low
MH	<i>Trifolium subterraneum</i>	Subterranean Clover	high	low
MH	<i>Centaurium erythraea</i>	Common Centaury	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Trifolium dubium</i>	Suckling Clover	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Cynosurus echinatus</i>	Rough Dog's-tail	high	low
MNG	<i>Aira</i> spp.	Hair Grass	high	low
TTG	<i>Cyperus tenellus</i>	Tiny Flat-sedge	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 56: Floodplain Riparian Woodland

Description:

An open eucalypt woodland 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 ovata</i>	Swamp Gum

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
Large Herb	2	5%	LH
Medium Herb	3	10%	MH
Small or Prostrate Herb	3	10%	SH
Large Tufted Graminoid	2	15%	LTG
Large Non-tufted Graminoid	1	10%	LNG
Medium to Small Tufted Graminoid	5	15%	MTG
Medium to Tiny Non-tufted Graminoid	1	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>Acacia pycnantha</i>	Golden Wattle
MS	<i>Leptospermum lanigerum</i>	Woolly Tea-tree
LH	<i>Senecio glomeratus</i>	Annual Fireweed
MH	<i>Rumex brownii</i>	Slender Dock
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Crassula helmsii</i>	Swamp Crassula
SH	<i>Hydrocotyle sibthorpioides</i>	Shining Pennywort
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
LNG	<i>Phragmites australis</i>	Common Reed
MTG	<i>Lachnagrostis filiformis</i>	Common Blown-grass
MTG	<i>Austrodanthonia penicillata</i>	Slender Wallaby-grass
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
EP	<i>Muellerina eucalyptoides</i>	Creeping Mistletoe
SC	<i>Cassytha melantha</i>	Coarse Dodder-laurel
SC	<i>Calystegia sepium</i>	Large Bindweed

EVC 56: Floodplain Riparian Woodland - Glenelg Plain bioregion

Recruitment:

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

Organic Litter:

40 % cover

Logs:

30 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Rosa rubiginosa</i>	Sweet Briar	high	high
LH	<i>Rumex conglomeratus</i>	Clustered Dock	high	low
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Rumex crispus</i>	Curled Dock	high	low
LH	<i>Helminthotheca echioides</i>	Ox-tongue	high	low
LH	<i>Aster subulatus</i>	Aster-weed	high	low
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
LH	<i>Sonchus asper</i> s.l.	Rough Sow-thistle	high	low
LH	<i>Plantago lanceolata</i>	Ribwort	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Plantago major</i>	Greater Plantain	high	low
MH	<i>Brassica fruticulosa</i>	Twiggy Turnip	high	high
MH	<i>Atriplex prostrata</i>	Hastate Orache	high	high
LTG	<i>Phalaris aquatica</i>	Toowoomba Canary-grass	high	high
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>Lolium perenne</i>	Perennial Rye-grass	high	low
MNG	<i>Paspalum distichum</i>	Water Couch	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 68: Creekline Grassy Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

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

Understorey:

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

LF Code

Species typical of at least part of EVC range

Common Name

T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Acacia retinodes</i>	Wirilda
MS	<i>Hymenanthera dentata s.l.</i>	Tree Violet
SS	<i>Rubus parvifolius</i>	Small-leaf Bramble
SS	<i>Enchylaena tomentosa var. tomentosa</i>	Ruby Saltbush
MH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
SH	<i>Azolla filiculoides</i>	Pacific Azolla
SH	<i>Lemna disperma</i>	Common Duckweed
LTG	<i>Austrostipa bigeniculata</i>	Kneed Spear-grass
LTG	<i>Poa labillardierei</i>	Common Tussock-garss
LNG	<i>Phragmites australis</i>	Common Reed
MTG	<i>Austrodanthonia racemosa var. racemosa</i>	Stiped Wallaby-grass
MTG	<i>Austrodanthonia caespitosa</i>	Common Wallaby-grass
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
SC	<i>Glycine clandestina</i>	Twining Glycine

EVC 68: Creekline Grassy Woodland - Glenelg Plain bioregion

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
T	<i>Salix fragilis</i>	Crack Willow	high	high
MS	<i>Lycium ferocissimum</i>	African Box-thorn	high	high
MS	<i>Genista monspessulana</i>	Montpellier Broom	high	high
MS	<i>Rosa rubiginosa</i>	Sweet Briar	high	high
MS	<i>Rubus sp. aff. armeniacus</i>	Blackberry	high	high
LH	<i>Plantago lanceolata</i>	Ribwort	high	low
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Hirschfeldia incana</i>	Buchan Weed	high	high
LH	<i>Verbena bonariensis s.l.</i>	Purple-top Verbena	high	high
LH	<i>Rumex crispus</i>	Curled Dock	high	high
LH	<i>Rumex conglomeratus</i>	Clustered Dock	high	high
LH	<i>Conium maculatum</i>	Hemlock	high	high
LH	<i>Helminthotheca echioides</i>	Ox-tongue	high	low
LH	<i>Aster subulatus</i>	Aster-weed	high	low
LH	<i>Sonchus asper s.l.</i>	Rough Sow-thistle	high	low
LH	<i>Solanum nigrum sensu Willis (1972)</i>	Black Nightshade	high	high
MH	<i>Brassica fruticulosa</i>	Twiggy Turnip	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Foeniculum vulgare</i>	Fennel	high	high
SH	<i>Modiola caroliniana</i>	Red-flower Mallow	high	low
LTG	<i>Phalaris aquatica</i>	Toowoomba Canary-grass	high	high
LTG	<i>Piptatherum miliaceum</i>	Rice Millet	high	high
MTG	<i>Ehrharta erecta var. erecta</i>	Panic Veldt-grass	high	high
MTG	<i>Paspalum dilatatum</i>	Paspalum	high	high
MTG	<i>Bromus catharticus</i>	Prairie Grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Bromus diandrus</i>	Great Brome	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Agrostis capillaris s.l.</i>	Brown-top Bent	high	high
MNG	<i>Dactylis glomerata</i>	Cocksfoot	high	high
MNG	<i>Paspalum distichum</i>	Water Couch	high	high
SC	<i>Tradescantia fluminensis</i>	Wandering Jew	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain 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 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
Small Shrub	1	1%	SS
Prostrate Shrub	1	1%	PS
Large Herb	1	5%	LH
Medium Herb	20	30%	MH
Small or Prostrate Herb	7	10%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	15	25%	MTG
Medium to Tiny Non-tufted Graminoid	5	15%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

EVC 71: Hills Herb-rich Woodland – Glenelg Plain bioregion

LF Code	Species typical of at least part of EVC range	Common Name
SS	<i>Pimelea humilis</i>	Common Rice-flower
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Podolepis jaceoides</i> s.l.	Showy/Basalt Podolepis
MH	<i>Pelargonium rodneyanum</i>	Magenta Stork's-bill
MH	<i>Goodenia geniculata</i>	Bent Goodenia
MH	<i>Hypericum gramineum</i>	Small St John's Wort
MH	<i>Poranthera microphylla</i>	Small Poranthera
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Drosera glanduligera</i>	Scarlet Sundew
SH	<i>Solenogyne dominii</i>	Smooth Solenogyne
SH	<i>Siloxerus multiflorus</i>	Small Wrinklewort
LTG	<i>Austrostipa nodosa</i>	Knotty Spear-grass
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
MTG	<i>Neurachne alopecuroidea</i>	Fox-tail Mulga-grass
MTG	<i>Pentapogon quadrifidus</i>	Five-awned Spear-grass
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Lomandra nana</i>	Dwarf Mat-rush
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Triglochin nanum</i>	Dwarf Arrowgrass
MNG	<i>Microtis unifolia</i>	Common Onion-orchid
TTG	<i>Centrolepis strigosa</i> ssp. <i>strigosa</i>	Hairy Centrolepis
TTG	<i>Centrolepis aristata</i>	Pointed Centrolepis
TTG	<i>Aphelia pumilio</i>	Dwarf Aphelia
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Centaurea tenuiflorum</i>	Slender Centaury	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Parentucellia latifolia</i>	Red Bartsia	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MH	<i>Trifolium campestre</i> var. <i>campestre</i>	Hop Clover	high	low
MH	<i>Galium divaricatum</i>	Slender Bedstraw	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
MNG	<i>Juncus capitatus</i>	Capitate Rush	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
TTG	<i>Cyperus tenellus</i>	Tiny Flat-sedge	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 125: Plains Grassy Wetland

Description:

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

Life forms:

Life form	#Spp	%Cover	LF code
Large Herb	6	10%	LH
Medium Herb	11	20%	MH
Small or Prostrate Herb	4	10%	SH
Large Tufted Graminoid	2	10%	LTG
Medium to Small Tufted Graminoid	11	30%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
Tiny Tufted Graminoid*	2	1%	TTG
Bryophytes/Lichens	na	10%	BL
*Largely seasonal life form			

LF Code

Species typical of at least part of EVC range

Common Name

LH	<i>Calocephalus lacteus</i>	Milky Beauty-heads
LH	<i>Calocephalus citreus</i>	Lemon Beauty-heads
MH	<i>Microseris scapigera</i> spp. agg.	Yam Daisy
MH	<i>Lythrum hyssopifolia</i>	Small Loosestrife
MH	<i>Potamogeton tricarlinatus</i> s.l.	Floating Pondweed
SH	<i>Lobelia pratioides</i>	Poison Lobelia
SH	<i>Eryngium vesiculosum</i>	Prickfoot
SH	<i>Ranunculus amphitrichus</i>	Small River Buttercup
SH	<i>Solenogyne dominii</i>	Smooth Solenogyne
LTG	<i>Amphibromus nervosus</i>	Common Swamp Wallaby-grass
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
MTG	<i>Juncus holoschoenus</i>	Joint-leaf Rush
MTG	<i>Poa labillardierei</i>	Common Tussock-grass
MNG	<i>Eleocharis pusilla</i>	Small Spike-sedge
MNG	<i>Eleocharis atricha</i>	Tuber Spike-sedge
MNG	<i>Eleocharis acuta</i>	Common Spike-sedge
TTG	<i>Aphelia gracilis</i>	Slender Aphelia

Recruitment:

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

Organic Litter:

10% cover

EVC 125: Plains Grassy Wetland – Glenelg Plain bioregion

Logs:

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

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
SS	<i>Marrubium vulgare</i>	Horehound	high	high
LH	<i>Parentucellia viscosa</i>	Yellow Bartsia	high	low
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	low
MH	<i>Trifolium dubium</i>	Suckling Clover	high	low
MH	<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Trifolium campestre</i> var. <i>campestre</i>	Hop Clover	high	low
MH	<i>Mentha pulegium</i>	Pennyroyal	high	high
MH	<i>Cicendia filiformis</i>	Slender Cicendia	high	low
MH	<i>Cotula coronopifolia</i>	Water Buttons	high	high
MH	<i>Cicendia quadrangularis</i>	Square Cicendia	high	low
MH	<i>Trifolium subterraneum</i>	Subterranean Clover	high	low
MH	<i>Trifolium scabrum</i>	Rough Clover	high	low
MH	<i>Arctotheca calendula</i>	Cape Weed	high	low
LTG	<i>Phalaris aquatica</i>	Toowoomba Canary-grass	high	high
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Lolium perenne</i>	Perennial Rye-grass	high	high
MTG	<i>Critesion maritimum</i>	Sea Barley-grass	high	low
MTG	<i>Poa annua</i>	Annual Meadow-grass	high	low
MTG	<i>Bromus hordeaceus</i> ssp. <i>hordeaceus</i>	Soft Brome	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low
TTG	<i>Cyperus tenellus</i>	Tiny Flat-sedge	high	low
TTG	<i>Isolepis hystrix</i>	Awned Club-sedge	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 133: Limestone Pomaderris Shrubland

Description:

Shrubland to 3 m tall occurring on rocky limestone cliffs or cliff tops above the Glenelg River. Dominated by Glenelg Pomaderris with emergent Drooping She-oak and a range of shrubs, grasses and other herbs.

Understorey:

Life form	#Spp	%Cover	LF code
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	9	45%	MS
Small Shrub	2	1%	SS
Prostrate Shrub	2	1%	PS
Large Herb	5	15%	LH
Medium Herb	5	10%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	1%	LTG
Medium to Small Tufted Graminoid	7	20%	MTG
Ground Fern	1	1%	GF
Scrambler or Climber	2	1%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Allocasuarina verticillata</i>	Drooping Sheoak
T	<i>Exocarpos cupressiformis</i>	Cherry Ballart
MS	<i>Pomaderris halmaturina</i> ssp. <i>continentis</i>	Glenelg Pomaderris
MS	<i>Leucopogon parviflorus</i>	Coast Beard-heath
MS	<i>Bursaria spinosa</i>	Sweet Bursaria
MS	<i>Dodonaea viscosa</i>	Sticky Hop-bush
SS	<i>Leucopogon virgatus</i>	Common Beard-heath
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Senecio pinnatifolius</i>	Variable Groundsel
LH	<i>Senecio odoratus</i> var. <i>odoratus</i>	Scented Groundsel
LH	<i>Urtica incisa</i>	Scrub Nettle
LH	<i>Sambucus gaudichaudiana</i>	White Elderberry
MH	<i>Scaevola albida</i>	Small-fruit Fan-flower
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
SH	<i>Opercularia varia</i>	Variable Stinkweed
SH	<i>Convolvulus remotus</i>	Grassy Bindweed
SH	<i>Apium prostratum</i> ssp. <i>prostratum</i>	Sea Celery
LTG	<i>Austrostipa flavescens</i>	Coast Spear-grass
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Dianella brevicaulis</i>	Small-flower Flax-lily
MTG	<i>Austrodanthonia caespitosa</i>	Common Wallaby-grass
MTG	<i>Poa labillardierei</i>	Common Tussock-grass
GF	<i>Pteris tremula</i>	Tender Brake
SC	<i>Clematis microphylla</i>	Small-leaved Clematis

Recruitment:

Continuous

Organic Litter:

20 % cover

EVC 133: Limestone Pomaderris Shrubland - Glenelg Plain bioregion

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	low
LH	<i>Solanum nigrum</i> sensu Willis (1972)	Black Nightshade	high	low
LH	<i>Reseda luteola</i>	Weld	high	low
LH	<i>Plantago lanceolata</i>	Ribwort	high	low
MH	<i>Centaureum erythraea</i>	Common Centaury	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Leontodon taraxacoides</i> spp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
MTG	<i>Catapodium rigidum</i>	Fern Grass	high	low
MNG	<i>Vulpia myuros</i>	Rat's-tail Fescue	high	low
MNG	<i>Lagurus ovatus</i>	Hare's-tail Grass	high	low
MNG	<i>Aira cupaniana</i>	Small Hair-grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 136: Sedge Wetland

Description:

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

Life forms:

Life form	#Spp	%Cover	LF code
Large Herb	1	5%	LH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	2	20%	LTG
Large Non-tufted Graminoid	1	20%	LNG
Bryophytes/Lichens	na	10%	BL
Total understorey projective foliage cover		55%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
LH	<i>Villarsia reniformis</i>	Running Marsh-flower
LH	<i>Epilobium billardierianum</i>	Variable Willow-herb
LTG	<i>Triglochin procerum</i> s.l.	Water Ribbons
LTG	<i>Baumea articulata</i>	Jointed Twig-sedge
LNG	<i>Baumea rubiginosa</i> s.l.	Soft Twig-rush

Recruitment:

Episodic/Flood. Desirable period between disturbances is 5 years

Organic Litter:

10 % cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Cotula coronopifolia</i>	Water Buttons	high	high
MTG	<i>Critesion hystrix</i>	Mediterranean Barley-grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Lolium perenne</i>	Perennial Rye-grass	high	high
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MNG	<i>Holcus setosus</i>	Annual Fog	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
TTG	<i>Isolepis hystrix</i>	Awned Club-sedge	high	low
TTG	<i>Cyperus tenellus</i>	Tiny Flat-sedge	high	low

EVC 136: Sedge Wetland – Glenelg Plain bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 155: Bird Colony Succulent Herbland

Description:

A closed, succulent herbland (to open herbland during bird nesting season) occurring on coastal sand. Almost entirely restricted to offshore seabird breeding colonies. The nutrient enriched sandy substrates are dominated by the succulent herb Bower Spinach *Tetragonia implexicoma* and other succulent herbs.

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	1	30%	MS
Medium Herb	2	5%	MH
Small Herb	2	20%	SH
Large Tufted Graminoid	1	1%	LTG
Scrambler/Climber	2	40%	SC

Total understorey projective foliage cover

80%

LF Code

Species typical of at least part of EVC range

Common Name

MS	<i>Rhagodia candolleana</i> ssp. <i>candolleana</i>	Seaberry Saltbush
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
SH	<i>Carpobrotus rossii</i>	Karkalla
SH	<i>Disphyma crassifolium</i> ssp. <i>clavellatum</i>	Rounded Noon-flower
LTG	<i>Austrostipa flavescens</i>	Coast Spear-grass
SC	<i>Tetragonia implexicoma</i>	Bower Spinach
SC	<i>Clematis microphylla</i>	Small-leaved Clematis

Recruitment:

Continuous

Organic Litter:

10% cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Diplotaxis muralis</i>	Wall Rocket	high	low
MH	<i>Polycarpon tetraphyllum</i>	Four-leaved Allseed	high	low
MH	<i>Arctotheca calendula</i>	Cape Weed	high	low
MTG	<i>Bromus diandrus</i>	Great Brome	high	high
LNG	<i>Ammophila arenaria</i>	Marram Grass	high	low

EVC 155: Bird Colony Succulent Herbland - Glenelg Plain bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain Bioregion

EVC 160: Coastal Dune Scrub

Description:

Coastal Dune Scrub occupies the secondary dunes along ocean and bay beaches and lake shores. Closed scrub to 3 m tall with occasional emergent trees on siliceous and calcareous sands that are subject to high levels of saltspray and continuous disturbance from onshore winds.

Understorey:

Lifeform	#Spp	%Cover	LF Code
Medium Shrub	7	50%	MS
Large Herb	3	5%	LH
Medium Herb	7	15%	MH
Small or Prostrate Herb	3	10%	SH
Medium to Small Tufted Graminoid	2	15%	MTG
Medium to Tiny Non-Tufted Graminoid	2	5%	MNG
Scrambler or Climber	3	5%	SC
Bryophytes/Lichens		10%	BL

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Acacia longifolia</i> subsp. <i>sophorae</i>	Coast Wattle
MS	<i>Leucopogon parviflorus</i>	Coast Beard-heath
MS	<i>Olearia axillaris</i>	Coast Daisy-Bush
MS	<i>Rhagodia candolleana</i> subsp. <i>candolleana</i>	Seaberry Saltbush
LH	<i>Senecio pinnatifolius</i>	Variable Groundsel
MH	<i>Myosotis australis</i>	Austral Forget-me-not
MH	<i>Senecio biserratus</i>	Jagged Fireweed
MH	k <i>Stackhousia spathulata</i>	Coast Stackhousia
SH	<i>Apium prostratum</i> subsp. <i>prostratum</i>	Sea Celery
SH	<i>Carpobrotus rossii</i>	Karkalla
SH	<i>Threlkeldia diffusa</i>	Coast Bonefruit
MTG	<i>Lachnagrostis billardierei</i> subsp. <i>billardierei</i>	Coast Blown-grass
MTG	<i>Poa poiformis</i> var. <i>poiformis</i>	Coast Tussock-grass
MNG	<i>Ficinia nodosa</i>	Knobby Club-sedge
MNG	<i>Schoenus nitens</i>	Shiny Bog-sedge
SC	<i>Clematis microphylla</i> var. <i>microphylla</i>	Small-leaved Clematis
SC	<i>Tetragonia implexicoma</i>	Bower Spinach

Recruitment:

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

Organic Litter:

40 % cover

EVC 160: Coastal Dune Scrub

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Lycium ferocissimum</i>	African Box-thorn	high	high
MS	<i>Rhamnus alaternus</i>	Italian Buckthorn	high	high
LH	<i>Senecio elegans</i>	Purple Groundsel	high	high
LNG	<i>Ammophila arenaria</i>	Marram Grass	high	high
SC	<i>Asparagus asparagoides</i>	Bridal Creeper	high	high
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Sonchus asper s.l.</i>	Rough Sow-thistle	high	low
MNG	<i>Lagurus ovatus</i>	Hare's-tail Grass	high	low
MTG	<i>Catapodium rigidum</i>	Fern Grass	high	low
LH	<i>Melilotus indicus</i>	Sweet Melilot	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Cerastium glomeratum s.l.</i>	Common Mouse-ear Chickweed	high	low
MH	<i>Galium murale</i>	Small Goosegrass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 161: Coastal Headland Scrub

Description:

Scrub or shrubland on steep, rocky coastal headlands often associated with cliffs exposed to the stresses of extreme salt-laden winds and salt spray from the south west. Occurs on shallow sands along rocky sections of the coast.

Life forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	7	50%	MS
Large Herb	2	1%	LH
Medium Herb	4	5%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	4	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Acacia longifolia</i> ssp. <i>sophorae</i>	Coast Wattle
MS	<i>Rhagodia candolleana</i> ssp. <i>candolleana</i>	Seaberry Saltbush
MS	<i>Alyxia buxifolia</i>	Sea Box
MS	<i>Leucopogon parviflorus</i>	Coast Beard-heath
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Disphyma crassifolium</i> ssp. <i>clavellatum</i>	Rounded Noon-flower
MTG	<i>Dianella brevicaulis</i>	Small-flower Flax-lily
MTG	<i>Lachnagrostis billardierei</i> s.l.	Coast Blown-grass
MTG	<i>Poa poiiformis</i>	Coast Tussock-grass
MTG	<i>Austrodanthonia caespitosa</i>	Common Wallaby-grass
MNG	<i>Ficinia nodosa</i>	Knobby Club-sedge
SC	<i>Clematis microphylla</i>	Small-leaved Clematis
SC	<i>Tetragonia implexicoma</i>	Bower Spinach

Recruitment:

Continuous

Organic Litter:

40 % cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Chrysanthemoides monilifera</i>	Boneseed	high	high
MS	<i>Polygala myrtifolia</i> var. <i>myrtifolia</i>	Myrtle-leaf Milkwort	high	high
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	high
MTG	<i>Ehrharta erecta</i> var. <i>erecta</i>	Panic Veldt-grass	high	high

EVC 161: Coastal Headland Scrub - Glenelg Plain bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain 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 viminalis</i>	Manna Gum
	<i>Eucalyptus ovata</i>	Swamp Gum

Understorey:

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

LF Code

Species typical of at least part of EVC range

Common Name

T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Senecio minimus</i>	Shrubby Fireweed
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
SH	<i>Goodenia lanata</i>	Trailing Goodenia
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Juncus pallidus</i>	Pale Rush
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Luzula meridionalis</i> var. <i>flaccida</i>	Common Woodrush
MTG	<i>Austrodanthonia penicillata</i>	Slender Wallaby-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Hardenbergia violacea</i>	Purple Coral-pea

EVC 164: Creekline Herb-rich Woodland - Glenelg Plain bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

10 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
T	<i>Crataegus monogyna</i>	Hawthorn	high	high
T	<i>Malus pumila</i>	Apple	high	high
T	<i>Salix</i> spp.	Willow	high	high
MS	<i>Rubus fruticosus</i> spp. agg.	Blackberry	high	high
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
LH	<i>Sonchus asper</i> s.l.	Rough Sow-thistle	high	low
LH	<i>Rumex crispus</i>	Curled Dock	high	low
LH	<i>Conium maculatum</i>	Hemlock	high	high
MH	<i>Lotus uliginosus</i>	Greater Bird's-foot Trefoil	high	low
MH	<i>Acetosella vulgaris</i>	Sheep Sorrel	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Juncus articulatus</i>	Jointed Rush	high	high
MTG	<i>Cyperus congestus</i>	Dense Flat-sedge	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 179: Heathy Herb-rich Woodland

Description:

Eucalypt woodland or open-forest to 15 m tall generally with a bracken-dominated understorey. Large shrubs and understorey trees are generally present. The understorey comprises a range of heathy shrubs, grasses and herbs. Occurs on Quaternary aeolian deposits with relatively well-drained sandy soils often with limestone at depth.

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 baxteri</i> s.l.	Brown Stringybark
	<i>Eucalyptus viminalis</i> ssp. <i>cygnetensis</i>	Rough-barked Manna-gum

Understorey:

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

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

EVC 179: Heathy Herb-rich Woodland - Glenelg Plain bioregion

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>Banksia marginata</i>	Silver Banksia
MS	<i>Acacia verticillata</i>	Prickly Moses
SS	<i>Hibbertia sericea</i> s.l.	Silky Guinea-flower
SS	<i>Hibbertia fasciculata</i> var. <i>prostrata</i>	Bundled Guinea-flower
SS	<i>Astroloma conostephioides</i>	Flame Heath
SS	<i>Isopogon ceratophyllus</i>	Horny Cone-bush
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Styphelia adscendens</i>	Golden Heath
PS	<i>Boronia nana</i>	Dwarf Boronia
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
MH	<i>Helichrysum scorpioides</i>	Button Everlasting
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Goodenia geniculata</i>	Bent Goodenia
SH	<i>Oxalis corniculata</i> s.l.	Yellow Wood-sorrel
SH	<i>Opercularia varia</i>	Variable Stinkweed
SH	<i>Kennedia prostrata</i>	Running Postman
LTG	<i>Xanthorrhoea minor</i> ssp. <i>lutea</i>	Small Grass-tree
LTG	<i>Xanthorrhoea caespitosa</i>	Tufted Grass-tree
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Lomandra nana</i>	Dwarf Mat-rush
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
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
MNG	<i>Hypolaena fastigiata</i>	Tassel Rope-rush
TTG	<i>Centrolepis strigosa</i> ssp. <i>strigosa</i>	Hairy Centrolepis
GF	<i>Pteridium esculentum</i>	Austral Bracken
EP	<i>Amyema pendula</i>	Drooping Mistletoe
SC	<i>Cassytha pubescens</i> s.s.	Downy Dodder-laurel
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily

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
MH	<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high
MNG	<i>Aira</i> spp.	Hair Grass	high	low
MNG	<i>Vulpia ciliata</i>	Fringed Fescue	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low
MNG	<i>Vulpia myuros</i> f. <i>megalura</i>	Fox-tail Fescue	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 191: Riparian Scrub

Description:

Scrub or shrubland to 6 m tall. Occurs along broad, gently sloping drainage lines where stream alluvium is present. Species diversity is generally low due to the dense cover of Scented Paperbark *Melaleuca squarrosa*. Scattered emergent eucalypts are sometimes present while the understorey is dominated by large sedges and amphibious herbs.

Canopy Cover:

%cover	Character Species	Common Name
50%	<i>Melaleuca squarrosa</i>	Scented Paperbark

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	4	10%	MS
Small Shrub	2	1%	SS
Prostrate Shrub	1	1%	PS
Large Herb	1	5%	LH
Medium Herb	4	5%	MH
Large Tufted Graminoid	2	25%	LTG
Medium to Small Tufted Graminoid	1	10%	MTG
Medium to Tiny Non-tufted Graminoid	3	15%	MNG
Bryophytes/Lichens	na	20%	BL
Total understorey projective foliage cover		90%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Melaleuca squamea</i>	Swamp Honey-myrtle
MS	<i>Allocasuarina paludosa</i>	Scrub Sheoak
SS	<i>Pultenaea stricta</i>	Rigid Bush-pea
SS	<i>Epacris lanuginosa</i>	Woolly-style Heath
PS	<i>Xanthosia leiophylla</i>	Parsley Xanthosia
LH	<i>Villarsia reniformis</i>	Running Marsh-flower
MH	<i>Selaginella uliginosa</i>	Swamp Selaginella
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
MH	<i>Drosera peltata ssp. auriculata</i>	Tall Sundew
MH	<i>Brunonia australis</i>	Blue Pincushion
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
MTG	<i>Tetraria capillaris</i>	Hair Sedge
MNG	<i>Schoenus carsei</i>	Wiry Bog-sedge
MNG	<i>Empodisma minus</i>	Spreading Rope-rush
MNG	<i>Baumea gunnii</i>	Slender Twig-sedge

Recruitment:

Continuous

Organic Litter:

40 % cover

Weediness:

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

EVC 191: Riparian Scrub - Glenelg Plain bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 195: Seasonally Inundated Shrubby Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

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

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	T
Medium Shrub	7	30%	MS
Small Shrub	3	10%	SS
Prostrate Shrub	1	1%	PS
Large Herb	2	5%	LH
Medium Herb	3	10%	MH
Small or Prostrate Herb	1	1%	SH
Medium to Small Tufted Graminoid	6	15%	MTG
Medium to Tiny Non-tufted Graminoid	3	10%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		85%	

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

EVC 195: Seasonally Inundated Shrubby Woodland - Glenelg Plain bioregion

Recruitment:

Continuous

Organic Litter:

30 % cover

Logs:

15 m/0.1 ha.

Weediness:

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain 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 obliqua</i>	Messmate Stringybark
	<i>Eucalyptus ovata</i>	Swamp Gum

Understorey:

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

LF Code

Species typical of at least part of EVC range

Common Name

T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Melaleuca squarrosa</i>	Scented Paperbark
MS	<i>Leptospermum lanigerum</i>	Woolly Tea-tree
MS	<i>Goodenia ovata</i>	Hop Goodenia
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MH	<i>Viola hederacea</i> sensu Entwisle (1996)	Ivy-leaf Violet
MH	<i>Gonocarpus humilis</i>	Shade Raspwort
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
LTG	<i>Gahnia clarkei</i>	Tall Saw-sedge
LTG	<i>Baloskion tetraphyllum</i> ssp. <i>tetraphyllum</i>	Tassel Cord-rush
LTG	<i>Lepidosperma elatius</i>	Tall Sword-sedge
LTG	<i>Juncus procerus</i>	Tall Rush
MTG	<i>Dianella longifolia</i>	Pale Flax-lily
MNG	<i>Poa tenera</i>	Slender Tussock-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Blechnum nudum</i>	Fishbone Water-fern

EVC 198: Sedgy Riparian Woodland – Glenelg Plain 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 ulmifolius</i>	Blackberry	high	high
LH	<i>Rumex crispus</i>	Curled Dock	high	low
MH	<i>Batrachium trichophyllum</i>	Water Fennel	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Centaurea erythraea</i>	Common Centaury	high	low
SH	<i>Callitriche stagnalis</i>	Common Starwort	high	high
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Juncus bulbosus</i>	Bulbous Rush	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 283: Plains Sedgy Woodland

Description:

Occurs in shallow depressions associated with broad plains or floodplains. Soils are poorly drained, cracking clays which can seasonally form shallow freshwater marshes. The vegetation is an open woodland to 15 m tall, with shrubs and understorey trees generally absent, and sedges predominating in the ground layer. Herbs typical of inundated environments are present, but also grass, herb and geophyte species common to surrounding woodlands.

Large trees:

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

Tree Canopy Cover:

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

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	1	5%	MS
Small Shrub	2	1%	SS
Large Herb	4	15%	LH
Medium Herb	10	20%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	2	1%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	13	30%	MTG
Medium to Tiny Non-tufted Graminoid	4	20%	MNG
Bryophytes/Lichens	na	10%	BL
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>Eryngium ovium</i>	Blue Devil
LH	<i>Brachyscome cardiocarpa</i>	Swamp Daisy
LH	<i>Villarsia reniformis</i>	Running Marsh-flower
MH	<i>Utricularia dichotoma s.l.</i>	Fairies' Aprons
MH	<i>Drosera peltata ssp. peltata</i>	Pale Sundew
SH	<i>Solenogyne dominii</i>	Smooth Solenogyne
SH	<i>Myriocephalus rhizocephalus</i>	Woolly-heads
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG	<i>Amphibromus nervosus</i>	Common Swamp Wallaby-grass
LNG	<i>Baumea rubiginosa s.l.</i>	Soft Twig-rush
MTG	<i>Lepidosperma congestum</i>	Clustered Sword-sedge
MTG	<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass
MTG	<i>Lachnagrostis filiformis var. 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 ssp. 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 283: Plains Sedgy Woodland - Glenelg Plain 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

Glenelg Plain bioregion

EVC 292: Red Gum Swamp

Description:

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

Large trees:

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

Tree Canopy Cover:

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

Understorey:

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

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

EVC 292: Red Gum Swamp – Glenelg Plain bioregion

Recruitment:

Episodic/Flood – desirable period of disturbance is once every 5 years

Organic Litter:

10 % Cover

Logs:

10 m/0.1 ha

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MNG	<i>Briza minor</i>	Lesser Quaking-grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 640: Creekline Sedgy Woodland

Description:

Sedge and rush-dominated eucalypt woodland to 15 m tall with amphibious herbs. Occurs along banks and adjacent wet flats of smaller intermittent creeks on coarse sands and stony alluvial soils and on the floodplains of larger rivers, in areas where annual rainfall is less than 500 mm per annum.

Large trees:

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

Tree Canopy Cover:

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

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	1	5%	MS
Small Shrub	1	1%	SS
Medium Herb	5	10%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	3	15%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	6	20%	MTG
Bryophytes/Lichens	na	10%	BL
Total understorey projective foliage cover		70%	

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia</i> spp.	Wattle
MS	<i>Acacia pycnantha</i>	Golden Wattle
SS	<i>Pimelea humilis</i>	Common Rice-flower
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Acaena echinata</i>	Sheep's Burr
LTG	<i>Carex appressa</i>	Tall Sedge
LTG	<i>Carex tereticaulis</i>	Sedge Rush
MTG	<i>Cyperus gunnii</i> ssp. <i>gunnii</i>	Flecked Flat-sedge
MTG	<i>Elymus scaber</i> var. <i>scaber</i>	Common Wheat-grass
MTG	<i>Lachnagrostis filiformis</i>	Common Blown-grass

Recruitment:

Continuous

Organic Litter:

40% cover

Logs:

20m/0.1 ha

EVC 640: Creekline Sedgy Woodland – Glenelg Plain bioregion

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	low
LH	<i>Plantago lanceolata</i>	Ribwort	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
LTG	<i>Phalaris aquatica</i>	Toowoomba Canary-grass	high	high
MNG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MNG	<i>Romulea rosea</i>	Onion Grass	high	low
MNG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MNG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 641: Riparian Woodland

Description:

Occurs beside permanent streams, typically on narrow alluvial deposits. Woodland to 20 m tall generally dominated by *Eucalyptus camaldulensis* over a tussock grass-dominated understorey. Tall shrubs may be present and amphibious herbs may occur in occasional ponds and beside creeks. While flooding may be common, sites are rarely inundated for lengthy periods.

Large trees:

Species	DBH(cm)	#/ha
<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
Medium Shrub	3	10%	MS
Small Shrub	1	1%	SS
Large Herb	3	5%	LH
Medium Herb	9	20%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	3	30%	LTG
Medium to Small Tufted Graminoid	2	10%	MTG
Ground Fern	1	1%	GF
Scrambler or Climber	3	10%	SC
Bryophytes/Lichens	na	10%	BL

LF Code

Species typical of at least part of EVC range

Common Name

MS	<i>Ozothamnus ferrugineus</i>	Tree Everlasting
MS	<i>Bursaria spinosa</i> ssp. <i>spinosa</i>	Sweet Bursaria
MS	<i>Leptospermum obovatum</i>	River Tea-tree
SS	<i>Rubus parvifolius</i>	Small-leaf Bramble
LH	<i>Wahlenbergia gracilis</i> s.s.	Sprawling Bluebell
LH	<i>Brachyscome graminea</i>	Grass Daisy
MH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
MH	<i>Mentha australis</i>	River Mint
MH	<i>Rumex brownii</i>	Slender Dock
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
SH	<i>Mimulus repens</i>	Creeping Monkey-flower
SH	<i>Mentha saturoides</i>	Creeping mint
SH	<i>Selliera radicans</i>	Shiny Swamp-mat
SH	<i>Dichondra repens</i>	Kidney-weed
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Carex appressa</i>	Tall Sedge
LTG	<i>Poa labillardierei</i> var. <i>labillardierei</i>	Common Tussock-grass
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Austrodanthonia setacea</i> var. <i>setacea</i>	Bristly Wallaby-grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Adiantum aethiopicum</i>	Common Maidenhair
EP	<i>Amyema pendula</i>	Drooping Mistletoe
SC	<i>Calystegia sepium</i>	Large Bindweed

EVC 641: Riparian Woodland - Glenelg Plain bioregion

Recruitment:

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

Organic Litter:

20 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Rosa rubiginosa</i>	Sweet Briar	high	high
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Plantago lanceolata</i>	Ribwort	high	low
LH	<i>Helminthotheca echioides</i>	Ox-tongue	high	low
LH	<i>Rumex crispus</i>	Curled Dock	high	low
LH	<i>Rorippa palustris</i>	Marsh Yellow-cress	high	high
LH	<i>Aster subulatus</i>	Aster-weed	high	low
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
SC	<i>Calystegia silvatica</i>	Greater Bindweed	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 647: Plains Sedgy Wetland

Description:

Occurs in seasonally wet depressions on volcanic and sedimentary plains, typically associated with fertile, silty, peaty or heavy clay paludal soils. Primarily sedgy-herbaceous vegetation, sometimes with scattered or fringing eucalypts or tea-tree/paperbark shrubs in higher rainfall areas. A range of aquatic herbs can be present, and species-richness is mostly relatively low to moderate, but higher towards drier margins.

Life Forms:

Life form	#Spp	%Cover	LF code
Large Herb	1	5%	LH
Medium Herb	4	10%	MH
Large Tufted Graminoid	1	5%	LTG
Large Non-tufted Graminoid	1	10%	LNG
Medium to Small Tufted Graminoid	4	40%	MTG
Medium to Tiny Non-tufted Graminoid	1	10%	MNG
Total understorey projective foliage cover		80%	

LF Code	Species typical of at least part of EVC range	Common Name
LH	<i>Villarsia reniformis</i>	Running Marsh-flower
MH	<i>Potamogeton tricaratus s.l.</i>	Floating Pondweed
MH	<i>Myriophyllum simulans</i>	Amphibious Water-milfoil
MH	<i>Gratiola pubescens</i>	Glandular Brooklime
MH	<i>Lilaeopsis polyantha</i>	Australian Lilaeopsis
LTG	<i>Amphibromus nervosus</i>	Common Swamp Wallaby-grass
LNG	<i>Baumea rubiginosa s.l.</i>	Soft Twig-rush
MTG	<i>Isolepis fluitans</i>	Floating Club-sedge
MTG	k <i>Lachnagrostis filiformis (perennial variety)</i>	Wetland Blown-grass
MTG	<i>Juncus holoschoenus</i>	Joint-leaf Rush
MTG	<i>Lachnagrostis filiformis</i>	Common Blown-grass
MNG	<i>Eleocharis acuta</i>	Common Spike-sedge

Recruitment:

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

Organic Litter:

10% cover

Weediness:

There are no consistent weeds in this EVC.

EVC 647: Plains Sedgy Wetland - Glenelg Plain bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 651: Plains Swampy Woodland

Description:

Eucalypt woodland to 15 m tall with ground layer dominated by tussock grasses, sedges and herbs. Shrubs are often scattered throughout. Occurs on poorly drained, seasonally waterlogged heavy soils.

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 ovata</i>	Swamp Gum

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	4	15%	MS
Large Herb	3	5%	LH
Medium Herb	8	20%	MH
Small or Prostrate Herb	5	5%	SH
Large Tufted Graminoid	3	30%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	7	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Bryophytes/Lichens	na	20%	BL

LF Code

Species typical of at least part of EVC range

Common Name

T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Melaleuca gibbosa</i>	Slender Honey-myrtle
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Ozothamnus ferrugineus</i>	Tree Everlasting
MS	<i>Allocasuarina paludosa</i>	Scrub Sheoak
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Villarsia reniformis</i>	Running Marsh-flower
MH	<i>Asperula conferta</i>	Common Woodruff
MH	<i>Centella cordifolia</i>	Centella
MH	<i>Lobelia anceps</i>	Angled Lobelia
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
SH	<i>Eryngium vesiculosum</i>	Prickfoot
SH	<i>Oxalis exilis</i>	Shady Wood-sorrel
SH	<i>Lobelia beaugleholei</i>	Showy Lobelia
SH	<i>Hypericum japonicum</i>	Matted St John's Wort
LTG	<i>Gahnia trifida</i>	Coast Saw-sedge
LTG	<i>Carex appressa</i>	Tall Sedge
LTG	<i>Poa labillardierei</i> var. <i>labillardierei</i>	Common Tussock-grass
MTG	<i>Poa clelandii</i>	Noah's Ark
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MNG	<i>Poa tenera</i>	Slender Tussock-grass
MNG	<i>Hemarthria uncinata</i> var. <i>uncinata</i>	Mat Grass

EVC 651: Plains Swampy Woodland - Glenelg Plain 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>Plantago lanceolata</i>	Ribwort	high	low
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Sonchus asper</i> s.l.	Rough Sow-thistle	high	low
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
MH	<i>Trifolium dubium</i>	Suckling Clover	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	low
MH	<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
LTG	<i>Festuca arundinacea</i>	Tall Fescue	high	high
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high
MNG	<i>Holcus setosus</i>	Annual Fog	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low
TTG	<i>Cyperus tenellus</i>	Tiny Flat-sedge	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 652: Lunette Woodland

Description:

An open, eucalypt woodland to 15 m tall with a grassy and herb-rich understorey. Occupies on generally fertile, relatively well-drained, clay-loam soils on source-bordering lunettes.

Large trees:

Species	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	80 cm	8 / 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	5%	T
Medium Shrub	3	10%	MS
Small Shrub	2	1%	SS
Prostrate Shrub	1	1%	PS
Large Herb	3	5%	LH
Medium Herb	8	15%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	12	45%	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 pycnantha</i>	Golden Wattle
MS	<i>Acacia paradoxa</i>	Hedge Wattle
SS	<i>Pimelea humilis</i>	Common Rice-flower
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
MH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Acaena echinata</i>	Sheep's Burr
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
LTG	<i>Austrostipa bigeniculata</i>	Kneed Spear-grass
MTG	<i>Elymus scaber</i> var. <i>scaber</i>	Common Wheat-grass
MTG	<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass
MTG	<i>Austrodanthonia racemosa</i> var. <i>racemosa</i>	Stiped Wallaby-grass
MTG	<i>Tricoryne elatior</i>	Yellow Rush-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass

EVC 652: Lunette Woodland – Glenelg Plain bioregion

Recruitment:

Continuous

Organic Litter:

10 % cover

Logs:

10 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Lycium ferocissimum</i>	African Box-thorn	low	high
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Plantago lanceolata</i>	Ribwort	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 653: Aquatic Herbland

Description:

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

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Herb	3	20%	MH
Large Tufted Graminoid	1	25%	LTG
Medium to Small Tufted Graminoid	4	25%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Total understorey projective foliage cover		70%	

LF Code	Species typical of at least part of EVC range	Common Name
MH	<i>Utricularia australis</i>	Yellow Bladderwort
MH	<i>Myriophyllum simulans</i>	Amphibious Water-milfoil
MH	<i>Potamogeton tricarlinatus s.l.</i>	Floating Pondweed
LTG	<i>Baumea articulata</i>	Jointed Twig-sedge
MTG	<i>Triglochin procerum s.l.</i>	Water Ribbons
MTG	<i>Isolepis fluitans</i>	Floating Club-sedge
MTG	k <i>Lachnagrostis filiformis</i> (perennial variety)	Wetland Blown-grass
MTG	<i>Lachnagrostis filiformis</i>	Common Blown-grass
MNG	v <i>Amphibromus sinuatus</i>	Wavy Swamp Wallaby-grass

Recruitment:

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

Organic Litter:

10% cover

Weediness:

There are no consistent weeds in this EVC.

EVC 653: Aquatic Herbland - Glenelg Plain bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 656: Brackish Wetland

Description:

Treeless EVC dominated by sedges and herbs that are generally indicative of saline conditions. True halophytic species such as samphires, if present, only occur with very low cover. Occurs in estuaries and along poorly defined drainage lines or associated with shorelines of brackish lakes.

Life Forms:

Life form	#Spp	%Cover	LF code
Large Herb	1	5%	LH
Medium Herb	3	15%	MH
Small or Prostrate Herb	3	10%	SH
Large Tufted Graminoid	1	10%	LTG
Large Non-tufted Graminoid	2	10%	LNG
Medium to Small Tufted Graminoid	2	5%	MTG
Medium to Tiny Non-tufted Graminoid	3	15%	MNG
Scrambler or Climber	1	1%	SC
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		80%	

LF Code	Species typical of at least part of EVC range	Common Name
LH	<i>Persicaria decipiens</i>	Slender Knotweed
LH	<i>Epilobium billardierianum</i> ssp. <i>billardierianum</i>	Smooth Willow-herb
MH	<i>Sarcocornia quinqueflora</i>	Beaded Glasswort
MH	<i>Samolus repens</i>	Creeping Brookweed
MH	<i>Suaeda australis</i>	Austral Seablite
SH	<i>Selliera radicans</i>	Shiny Swamp-mat
SH	<i>Crassula helmsii</i>	Swamp Crassula
SH	<i>Mimulus repens</i>	Creeping Monkey-flower
LTG	<i>Gahnia filum</i>	Chaffy Saw-sedge
LNG	<i>Juncus kraussii</i> ssp. <i>australiensis</i>	Sea Rush
LNG	<i>Phragmites australis</i>	Common Reed
MTG	<i>Poa poiformis</i>	Coast Tussock-grass
MTG	<i>Lachnagrostis filiformis</i>	Common Blown-grass
MNG	<i>Bolboschoenus caldwellii</i>	Salt Club-sedge
MNG	<i>Distichlis distichophylla</i>	Australian Salt-grass
MNG	<i>Schoenoplectus pungens</i>	Sharp Club-sedge
MNG	<i>Triglochin striatum</i>	Streaked Arrowgrass
SC	<i>Calystegia sepium</i>	Large Bindweed

Recruitment:

Episodic/Flood: desirable period of disturbance is every five years

Organic Litter:

10% cover

Weediness:

There are no consistent weeds in this EVC.

EVC 656: Brackish Wetland – Glenelg Plain bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 657: Freshwater Lignum Shrubland

Description:

Lignum-dominated shrubland to 2 m tall with a predominantly grassy-herbaceous ground layer. Occurs on fertile inundation-prone heavy soils mostly on the fringe of other wetland types.

Life forms:

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

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Muehlenbeckia florulenta</i>	Lignum
LH	<i>Brachyscome basaltica</i> var. <i>gracilis</i>	Woodland Swamp-daisy
LH	<i>Rumex brownii</i>	Slender Dock
MH	<i>Marsilea drummondii</i>	Common Nardoo
MH	<i>Alternanthera denticulata</i> s.l.	Lesser Joyweed
MH	<i>Myriophyllum muelleri</i>	Hooded Water-milfoil
SH	<i>Eryngium vesiculosum</i>	Prickfoot
SH	<i>Lobelia pratioides</i>	Poison Lobelia
SH	<i>Lobelia concolor</i>	Poison Pratia
LTG	<i>Amphibromus nervosus</i>	Common Swamp Wallaby-grass
MTG	<i>Juncus subsecundus</i>	Finger Rush
MTG	<i>Lachnagrostis filiformis</i>	Common Blown-grass
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 10 years.

Organic Litter:

10 % cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Lycium ferocissimum</i>	African Box-thorn	high	high
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Helminthotheca echioides</i>	Ox-tongue	high	high
LH	<i>Cynara cardunculus</i>	Spanish Artichoke	high	high
LH	<i>Sonchus asper</i> s.l.	Rough Sow-thistle	high	low
LH	<i>Aster subulatus</i>	Aster-weed	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Cerastium glomeratum</i> s.l.	Common Mouse-ear Chickweed	high	low
MTG	<i>Nassella trichotoma</i>	Serrated Tussock	high	high
MTG	<i>Lolium rigidum</i>	Wimmera Rye-grass	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

EVC 657: Freshwater Lignum Shrubland – Glenelg Plain bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 664: Limestone Ridge Woodland

Description:

A non-eucalypt woodland to 10 m tall dominated by *Acacia* spp. with a dense, sedgy understorey on highly alkaline sandy loam soils. Occurs on limestone ridges with limited soil development.

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus baxteri</i> s.l.	Brown Stringybark

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	5	10%	SS
Large Herb	4	10%	LH
Medium Herb	4	5%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	4	30%	MTG
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

EVC 664: Limestone Ridge Woodland - Glenelg Plain bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia pycnantha</i>	Golden Wattle
T	<i>Acacia longifolia</i> s.l.	Coast/Sallow Wattle
MS	<i>Leucopogon parviflorus</i>	Coast Beard-heath
MS	<i>Correa reflexa</i>	Common Correa
MS	<i>Banksia marginata</i>	Silver Banksia
SS	<i>Acrotriche affinis</i>	Ridged Ground-berry
SS	<i>Pimelea glauca</i>	Smooth Rice-flower
SS	<i>Hibbertia sericea</i> s.l.	Silky Guinea-flower
SS	<i>Astroloma conostephioides</i>	Flame Heath
LH	<i>Chrysocephalum apiculatum</i> s.l.	Common Everlasting
LH	<i>Senecio pinnatifolius</i>	Variable Groundsel
LH	<i>Senecio glomeratus</i>	Annual Fireweed
LH	<i>Senecio odoratus</i> var. <i>odoratus</i>	Scented Groundsel
MH	<i>Goodenia geniculata</i>	Bent Goodenia
MH	<i>Wahlenbergia gracilentia</i> s.l.	Annual Bluebell
MH	<i>Scaevola albida</i>	Small-fruit Fan-flower
MH	<i>Poranthera microphylla</i>	Small Poranthera
SH	<i>Dichondra repens</i>	Kidney-weed
LTG	<i>Austrostipa flavescens</i>	Coast Spear-grass
MTG	<i>Lepidosperma canescens</i>	Hoary Rapier-sedge
MTG	<i>Lomandra multiflora</i> ssp. <i>multiflora</i>	Many-flowered Mat-rush
MTG	<i>Dichelachne rara</i>	Common Plume-grass
MTG	<i>Dianella longifolia</i>	Pale Flax-lily
SC	<i>Comesperma volubile</i>	Love Creeper

Recruitment:

Continuous

Organic Litter:

30 % cover

Logs:

15 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Centaureum erythraea</i>	Common Centaury	low	low
MNG	<i>Aira praecox</i>	Early Hair-grass	high	low
MNG	<i>Aira cupaniana</i>	Small Hair-grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 665: Coastal Mallee Scrub

Description:

Mallee eucalypt scrub to 4 m tall confined to Cape Nelson. The multi-stemmed habit of Coast Gum *Eucalyptus diversifolia* is a feature of this distinctive vegetation type that combines coastal and heath elements. Soil salinity and alkalinity determine the characteristics of this EVC.

Tree Canopy Cover:

%cover	Character Species	Common Name
40%	v <i>Eucalyptus diversifolia</i> ssp. <i>megacarpa</i> <i>Melaleuca lanceolata</i> ssp. <i>lanceolata</i>	Coast Gum Moonah

Understorey:

Life form	#Spp	%Cover	LF code
Medium Shrub	6	10%	MS
Small Shrub	6	10%	SS
Large Herb	2	1%	LH
Medium Herb	3	5%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	7	15%	MTG
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		60%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Acacia longifolia</i> ssp. <i>sophorae</i>	Coast Wattle
MS	<i>Acacia pycnantha</i>	Golden Wattle
MS	r <i>Lasiopetalum schulzenii</i>	Drooping Velvet-bush
MS	<i>Rhagodia candolleana</i> ssp. <i>candolleana</i>	Seaberry Saltbush
SS	<i>Astroloma conostephioides</i>	Flame Heath
SS	<i>Hibbertia empetrifolia</i> s.l.	Tangled Guinea-flower
SS	<i>Hibbertia sericea</i> s.l.	Silky Guinea-flower
SS	<i>Spyridium vexilliferum</i> var. <i>vexilliferum</i>	Winged Spyridium
LH	<i>Senecio odoratus</i> var. <i>odoratus</i>	Scented Groundsel
LH	<i>Linum marginale</i>	Native Flax
MH	<i>Viola sieberiana</i> ssp. <i>agg.</i>	Tiny Violet
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
LTG	<i>Austrostipa flavescens</i>	Coast Spear-grass
MTG	<i>Lepidosperma filiforme</i>	Common Rapier-sedge
MTG	<i>Dichelachne crinita</i>	Long-hair Plume-grass
MTG	<i>Dianella brevicaulis</i>	Small-flower Flax-lily
MTG	<i>Dianella revoluta</i> s.s.	Black-anther Flax-lily
SC	<i>Clematis microphylla</i>	Small-leaved Clematis

EVC 665: Coastal Mallee Scrub - Glenelg Plain bioregion

Recruitment:

Continuous

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>Centaureum erythraea</i>	Common Centaury	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 670: Limestone Woodland

Description:

A woodland to open woodland to 15 m tall with a locally dense *Acacia* shrub stratum and sparse ground layer. Occurs on red sandy (terra rossa) soils derived from limestone or sand stripped from limestone and re-deposited. The vegetation is strongly influenced by relatively high nutrient levels and alkalinity.

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus baxteri</i> s.l.	Brown Stringybark

Understorey:

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

EVC 670: Limestone Woodland - Glenelg Plain bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia pycnantha</i>	Golden Wattle
T	<i>Acacia mearnsii</i>	Black Wattle
T	<i>Melaleuca lanceolata</i> ssp. <i>lanceolata</i>	Moonah
MS	<i>Leucopogon parviflorus</i>	Coast Beard-heath
MS	v <i>Pomaderris halmaturina</i> ssp. <i>continentis</i>	Glenelg Pomaderris
MS	<i>Banksia marginata</i>	Silver Banksia
SS	<i>Astroloma conostephioides</i>	Flame Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Senecio pinnatifolius</i>	Variable Groundsel
LH	<i>Wahlenbergia gymnoclada</i>	Naked Bluebell
LH	<i>Senecio odoratus</i> var. <i>odoratus</i>	Scented Groundsel
MH	<i>Cynoglossum suaveolens</i>	Sweet Hound's-tongue
SH	<i>Dichondra repens</i>	Kidney-weed
LTG	<i>Austrostipa flavescens</i>	Coast Spear-grass
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
MTG	<i>Austrostipa scabra</i>	Rough Spear-grass
MTG	<i>Austrodanthonia geniculata</i>	Knead Wallaby-grass
MTG	<i>Dianella brevicaulis</i>	Small-flower Flax-lily
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MNG	<i>Ficinia nodosa</i>	Knobby Club-sedge

Recruitment:
Continuous

Organic Litter:
40 % cover

Logs:
15 m/0.1 ha.

Weediness:

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 674: Sandy Stream Woodland

Description:

Reed, sedge or shrub-dominated woodland to 15 m tall with a large range of amphibious herbs. Occupies the beds of seasonal creeks where large amounts of coarse sand have been deposited by past flows, often resulting in a distinctive 'U' shape to the drainage line. Sites periodically inundated through the wetter months and soils moist throughout the year. Restricted to moderately high rainfall areas (>600 mm) where coarse parent material available upstream.

Large trees:

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

Tree Canopy Cover:

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

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	15%	T
Medium Shrub	5	15%	MS
Medium Herb	6	10%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	10%	LTG
Large Non-tufted Graminoid	2	20%	LNG
Medium to Small Tufted Graminoid	10	30%	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
T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Acacia mearnsii</i>	Black Wattle
MS	<i>Leptospermum lanigerum</i>	Woolly Tea-tree
MS	<i>Leptospermum obovatum</i>	River Tea-tree
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Ozothamnus ferrugineus</i>	Tree Everlasting
SS	<i>Rubus parvifolius</i>	Small-leaf Bramble
MH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
SH	<i>Lobelia pratioides</i>	Poison Lobelia
SH	<i>Crassula helmsii</i>	Swamp Crassula
LTG	<i>Poa labillardierei</i>	Common Tussock-garss
LNG	<i>Phragmites australis</i>	Common Reed
LNG	<i>Typha domingensis</i>	Cumbungi
MTG	<i>Austrodanthonia racemosa</i> var. <i>racemosa</i>	Stiped Wallaby-grass
MTG	<i>Austrodanthonia caespitosa</i>	Common Wallaby-grass
MTG	<i>Juncus pauciflorus</i>	Loose-flower Rush
MTG	<i>Juncus caespiticius</i>	Grassy Rush
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Eleocharis acuta</i>	Common Spike-sedge
MNG	<i>Ficinia nodosa</i>	Knobby Club-sedge

EVC 674: Sandy Stream Woodland – Glenelg Plain bioregion

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
T	<i>Salix fragilis</i>	Crack Willow	high	high
MS	<i>Lycium ferocissimum</i>	African Box-thorn	low	high
MS	<i>Genista monspessulana</i>	Montpellier Broom	high	high
MS	<i>Rosa rubiginosa</i>	Sweet Briar	low	high
MS	<i>Rubus</i> sp. aff. <i>armeniacus</i>	Blackberry	high	high
LH	<i>Plantago lanceolata</i>	Ribwort	high	low
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Hirschfeldia incana</i>	Buchan Weed	high	high
LH	<i>Verbena bonariensis</i> s.l.	Purple-top Verbena	high	high
LH	<i>Rumex crispus</i>	Curled Dock	high	high
LH	<i>Rumex conglomeratus</i>	Clustered Dock	high	high
LH	<i>Conium maculatum</i>	Hemlock	high	high
LH	<i>Helminthotheca echioides</i>	Ox-tongue	high	low
LH	<i>Aster subulatus</i>	Aster-weed	high	low
LH	<i>Sonchus asper</i> s.l.	Rough Sow-thistle	high	low
LH	<i>Solanum nigrum</i> sensu Willis (1972)	Black Nightshade	high	high
MH	<i>Brassica fruticulosa</i>	Twiggy Turnip	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Foeniculum vulgare</i>	Fennel	high	high
SH	<i>Modiola caroliniana</i>	Red-flower Mallow	high	low
LTG	<i>Phalaris aquatica</i>	Toowoomba Canary-grass	high	high
LTG	<i>Piptatherum miliaceum</i>	Rice Millet	high	high
MTG	<i>Ehrharta erecta</i> var. <i>erecta</i>	Panic Veldt-grass	high	high
MTG	<i>Paspalum dilatatum</i>	Paspalum	high	high
MTG	<i>Bromus catharticus</i>	Prairie Grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Bromus diandrus</i>	Great Brome	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Agrostis capillaris</i> s.l.	Brown-top Bent	high	high
MNG	<i>Dactylis glomerata</i>	Cocksfoot	high	high
MNG	<i>Paspalum distichum</i>	Water Couch	high	high
SC	<i>Tradescantia fluminensis</i>	Wandering Jew	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain 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 arenacea</i>	Desert Stringybark

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	11	25%	MS
Small Shrub	11	20%	SS
Prostrate Shrub	4	5%	PS
Large Herb	2	5%	LH
Medium Herb	14	10%	MH
Small or Prostrate Herb	4	5%	SH
Large Tufted Graminoid	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 – Glenelg Plain bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Leptospermum myrsinoides</i>	Heath Tea-tree
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>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 caryophylla</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

Glenelg Plain bioregion

EVC 707: Sedgy Swamp Woodland

Description:

Eucalypt woodland to 15 m tall with sedgy ground layer and a range of herbs tolerant of seasonal waterlogging. Occurs on poorly drained, seasonally wet flats on sandy soils over heavier subsoils.

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 ovata</i>	Swamp Gum
	<i>Eucalyptus camaldulensis</i>	River Red Gum

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	2	15%	MS
Large Herb	3	10%	LH
Medium Herb	6	15%	MH
Small or Prostrate Herb	5	5%	SH
Large Tufted Graminoid	2	10%	LTG
Medium to Small Tufted Graminoid	3	10%	MTG
Large Non-tufted Graminoid	2	30%	LNG
Medium to Tiny Non-tufted Graminoid	2	1%	MNG
Bryophytes/Lichens	na	20%	BL

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
LH	<i>Villarsia reniformis</i>	Running Marsh-flower
LH	<i>Epilobium billardierianum</i>	Variable Willow-herb
LTG	<i>Triglochin procerum</i> s.l.	Water Ribbons
LTG	<i>Baumea articulata</i>	Jointed Twig-sedge
LNG	<i>Lepidosperma longitudinale</i>	Pithy Sword-sedge
LNG	<i>Baumea rubiginosa</i> s.l.	Soft Twig-rush

Recruitment:

Continuous

Organic Litter:

10 % cover

Logs:

10 m/0.1 ha.

EVC 651: Sedgy Swamp Woodland - Glenelg Plain bioregion

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Plantago lanceolata</i>	Ribwort	high	low
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Sonchus asper</i> s.l.	Rough Sow-thistle	high	low
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
MH	<i>Trifolium dubium</i>	Suckling Clover	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	low
MH	<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
LTG	<i>Festuca arundinacea</i>	Tall Fescue	high	high
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high
MNG	<i>Holcus setosus</i>	Annual Fog	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low
TTG	<i>Cyperus tenellus</i>	Tiny Flat-sedge	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 710: Damp Heathland

Description:

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

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	6	30%	MS
Small Shrub	5	20%	SS
Prostrate Shrub	2	5%	PS
Medium Herb	6	10%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	1	5%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	4	10%	MTG
Medium to Tiny Non-tufted Graminoid	3	15%	MNG
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Leptospermum myrsinoides</i>	Heath Tea-tree
SS	<i>Pultenaea stricta</i>	Rigid Bush-pea
SS	<i>Hibbertia fasciculata</i> var. <i>prostrata</i>	Bundled Guinea-flower
SS	<i>Dillwynia glaberrima</i>	Smooth Parrot-pea
SS	<i>Leucopogon glacialis</i>	Twisted Beard-heath
PS	<i>Xanthosia dissecta</i> s.l.	Cut-leaf Xanthosia
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Argentipallium obtusifolium</i>	Blunt Everlasting
MH	<i>Drosera peltata</i> ssp. <i>auriculata</i>	Tall Sundew
SH	<i>Drosera pygmaea</i>	Tiny Sundew
MTG	<i>Patersonia fragilis</i>	Short Purple-flag
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MNG	<i>Hypolaena fastigiata</i>	Tassel Rope-rush
MNG	<i>Leptocarpus tenax</i>	Slender Twine-rush
MNG	<i>Baumea juncea</i>	Bare Twig-sedge
SC	<i>Cassytha pubescens</i> s.s.	Downy Dodder-laurel
SC	<i>Cassytha glabella</i>	Slender Dodder-laurel

Recruitment:

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

Organic Litter:

20% cover

Weediness:

There are no consistent weeds in this EVC.

EVC 710: Damp Heathland - Glenelg Plain bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 793: Damp Heathy Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
10%	<i>Eucalyptus ovata</i>	Swamp Gum

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	8	30%	MS
Small Shrub	7	20%	SS
Prostrate Shrub	4	10%	PS
Large Herb	2	1%	LH
Medium Herb	7	10%	MH
Large Tufted Graminoid	2	10%	LTG
Large Non-tufted Graminoid	2	5%	LNG
Medium to Small Tufted Graminoid	9	10%	MTG
Medium to Tiny Non-tufted Graminoid	4	10%	MNG
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

EVC 793: Damp Heathy Woodland - Glenelg Plain bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Leptospermum myrsinoides</i>	Heath Tea-tree
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Hakea rostrata</i>	Beaked Hakea
SS	<i>Isopogon ceratophyllus</i>	Horny Cone-bush
SS	<i>Astroloma conostephioides</i>	Flame Heath
SS	<i>Pultenaea humilis</i>	Dwarf Bush-pea
SS	v <i>Hibbertia sessiliflora</i>	Heathy Guinea-flower
PS	<i>Styphelia adscendens</i>	Golden Heath
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Gompholobium ecostatum</i>	Dwarf Wedge-pea
LH	<i>Senecio glomeratus</i>	Annual Fireweed
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Goodenia geniculata</i>	Bent Goodenia
MH	<i>Drosera peltata ssp. peltata</i>	Pale Sundew
LTG	<i>Xanthorrhoea minor ssp. lutea</i>	Small Grass-tree
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
LTG	r <i>Xanthorrhoea caespitosa</i>	Tufted Grass-tree
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MTG	<i>Lepidosperma congestum</i>	Clustered Sword-sedge
MTG	<i>Austrodanthonia setacea var. setacea</i>	Bristly Wallaby-grass
MTG	<i>Austrodanthonia geniculata</i>	Kneed Wallaby-grass
MNG	<i>Hypolaena fastigiata</i>	Tassel Rope-rush
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
MNG	<i>Baumea juncea</i>	Bare Twig-sedge
MNG	<i>Apodasmia brownii</i>	Coarse Twine-rush
TTG	<i>Centrolepis strigosa ssp. strigosa</i>	Hairy Centrolepis
TTG	<i>Centrolepis aristata</i>	Pointed Centrolepis
SC	<i>Cassytha pubescens s.s.</i>	Downy Dodder-laurel
SC	<i>Cassytha glabella</i>	Slender Dodder-laurel

Recruitment:

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

Organic Litter:

20 % cover

Logs:

10 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
T	<i>Pinus radiata</i>	Radiata Pine	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Centaurea erythraea</i>	Common Centaury	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 803: Plains Woodland

Description:

Grassy or sedgy woodland to 15 m tall with large inter-tussock spaces potentially supporting a range of annual or geophytic herbs adapted to low summer rainfall, with low overall biomass. Mostly occurs on terrain of low relief in areas receiving <600 mm rainfall per annum. Fertile, sometimes seasonally waterlogged, mostly silty, loamy or clay topsoils, with heavy subsoils, derived largely from former Quaternary swamp deposits.

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus leucoxylon</i>	Yellow Gum
	<i>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
Prostrate Shrub	1	1%	PS
Large Herb	1	1%	LH
Medium Herb	20	25%	MH
Small or Prostrate Herb	4	10%	SH
Large Tufted Graminoid	1	5%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	16	30%	MTG
Medium to Tiny Non-tufted Graminoid	3	5%	MNG
Bryophytes/Lichens	na	10%	BL
Total understorey projective foliage cover		95%	

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

10 m/0.1 ha.

EVC 803: Plains Woodland – Glenelg Plain bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Acacia pycnantha</i>	Golden Wattle
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
MH	<i>Acaena echinata</i>	Sheep's Burr
MH	<i>Plantago gaudichaudii</i>	Narrow Plantain
MH	<i>Calocephalus citreus</i>	Lemon Beauty-heads
SH	<i>Solenogyne dominii</i>	Smooth Solenogyne
SH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
SH	<i>Daucus glochidiatus</i>	Austral Carrot
SH	<i>Goodenia pinnatifida</i>	Cut-leaf Goodenia
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
MTG	<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass
MTG	<i>Dianella revoluta</i> s.s.	Black-anther Flax-lily
MTG	<i>Austrodanthonia caespitosa</i>	Common Wallaby-grass
MNG	<i>Wurmbea dioica</i>	Common Early Nancy
TTG	<i>Centrolepis strigosa</i> ssp. <i>strigosa</i>	Hairy Centrolepis
TTG	<i>Centrolepis aristata</i>	Pointed Centrolepis
EP	<i>Amyema miquelii</i>	Box Mistletoe
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily
SC	<i>Convolvulus erubescens</i> spp. agg.	Pink Bindweed

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Trifolium angustifolium</i> var. <i>angustifolium</i>	Narrow-leaf Clover	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Arctotheca calendula</i>	Cape Weed	high	low
MH	<i>Petrorhagia velutina</i>	Velvety Pink	high	low
MH	<i>Trifolium dubium</i>	Suckling Clover	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
SH	<i>Trifolium glomeratum</i>	Cluster Clover	high	low
LNG	<i>Avena fatua</i>	Wild Oat	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Lolium rigidum</i>	Wimmera Rye-grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MNG	<i>Vulpia myuros</i>	Rat's-tail Fescue	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low
MNG	<i>Bromus rubens</i>	Red Brome	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 858: Coastal Alkaline Scrub (syn. Calcarenite Dune Woodland)

Description:

Near-coastal, deep calcareous (alkaline) and largely stable sand dunes and swales commonly dominated by Moonah *Melaleuca lanceolata* ssp. *lanceolata*. It occurs at low elevations of 20-60 m above sea level, average annual rainfall is approximately 550-950 mm, and it occurs on a variety of geologies and soil types. Low woodland or tall shrubland to 8 m tall, typically with a medium shrub layer, small shrub layer and sedges, grasses and herbs in the ground layer.

Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Melaleuca lanceolata</i> ssp. <i>lanceolata</i>	Moonah
	<i>Allocasuarina verticillata</i>	Drooping Sheoak

Understorey:

Life form	#Spp	%Cover	LF code
Medium Shrub	4	30%	MS
Large Herb	3	5%	LH
Medium Herb	2	1%	MH
Small or Prostrate Herb	2	10%	SH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	3	5%	MTG
Medium to Tiny Non-tufted Graminoid	2	30%	MNG
Scrambler or Climber	2	1%	SC
Bryophytes/Lichens	na	20%	BL
Total understorey projective foliage cover		90%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Acacia longifolia</i> var. <i>sophorae</i>	Coast Wattle
MS	<i>Olearia axillaris</i>	Coast Daisy-Bush
MS	<i>Rhagodia candolleana</i> ssp. <i>candolleana</i>	Seaberry Saltbush
MS	<i>Leucopogon parviflorus</i>	Coast Beard-heath
LH	<i>Epilobium billardierianum</i> ssp. <i>billardierianum</i>	Smooth Willow-herb
MH	<i>Picris angustifolia</i> ssp. <i>angustifolia</i>	Coast Picris
MH	<i>Lobelia anceps</i>	Angled Lobelia
SH	<i>Carpobrotus rossii</i>	Karkalla
LTG	<i>Austrostipa flavescens</i>	Coast Spear-grass
MTG	<i>Lepidosperma gladiatum</i>	Coast Sword-sedge
MTG	<i>Lachnagrostis billardierei</i> s.l.	Coast Blown-grass
MTG	<i>Poa poliformis</i>	Coast Tussock-grass
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MNG	<i>Ficinia nodosa</i>	Knobby Club-sedge
SC	<i>Comesperma volubile</i>	Love Creeper
SC	<i>Clematis microphylla</i>	Small-leaved Clematis
SC	<i>Tetragonia implexicoma</i>	Bower Spinach

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

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

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
MH	<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MNG	<i>Lagurus ovatus</i>	Hare's-tail Grass	high	low

EVC 858: Coastal Alkaline Scrub (syn. Calcarenite Dune Woodland) – Glenelg Plain bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 876: Spray-zone Coastal Shrubland

Description:

A wind-pruned salt-affected open shrubland usually less than 1 m tall (with occasional emergent taller shrubs) that occurs on the most exposed coastal areas subject to salt-spray and run-off at the crest of sea cliffs. This EVC usually occurs in association with taller Coastal Headland Scrub (EVC 161).

Life Forms:

Life form	#Spp	%Cover	LF code
Small Shrub	1	5%	SS
Medium Herb	4	10%	MH
Small or Prostrate Herb	1	1%	SH
Bryophytes/Lichens	na	20%	BL
Soil Crust	na	20%	S/C
Total understorey projective foliage cover		55%	

LF Code	Species typical of at least part of EVC range	Common Name
SS	<i>Leucophyta brownii</i>	Cushion Bush
MH	<i>Samolus repens</i>	Creeping Brookweed
MH	<i>Swainsona lessertiiifolia</i>	Coast Swainson-pea
MH	<i>Senecio spathulatus</i> s.l.	Dune Groundsel
MH	<i>Sarcocornia quinqueflora</i>	Beaded Glasswort
SH	<i>Apium prostratum</i> ssp. <i>prostratum</i>	Sea Celery

Recruitment:

Continuous

Organic Litter:

10% cover

Weediness:

There are no consistent weeds in this EVC.

EVC 876: Spray-zone Coastal Shrubland - Glenelg Plain bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 882: Shallow Sands Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus leucoxylon</i>	Yellow Gum
	<i>Eucalyptus baxteri</i> s.l.	Brown Stringybark
	<i>Eucalyptus ovata</i>	Swamp Gum

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	15%	T
Medium Shrub	3	5%	MS
Small Shrub	4	10%	SS
Prostrate Shrub	2	5%	PS
Large Herb	3	5%	LH
Medium Herb	17	20%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	11	25%	MTG
Medium to Tiny Non-tufted Graminoid	4	10%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

EVC 882: Shallow Sands Woodland - Glenelg Plain bioregion

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>Brachyloma daphnoides</i>	Daphne Heath
SS	<i>Hibbertia stricta s.l.</i>	Upright Guinea-flower
SS	<i>Astroloma conostephioides</i>	Flame Heath
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Leucopogon virgatus</i>	Common Beard-heath
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
MH	<i>Chrysocephalum apiculatum s.l.</i>	Common Everlasting
MH	<i>Goodenia geniculata</i>	Bent Goodenia
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG	<i>Xanthorrhoea minor ssp. lutea</i>	Small Grass-tree
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
LTG	<i>Xanthorrhoea caespitosa</i>	Tufted Grass-tree
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MTG	<i>Lomandra nana</i>	Dwarf Mat-rush
MTG	<i>Lepidosperma carphoides</i>	Black Rapier-sedge
MTG	<i>Austrodanthonia geniculata</i>	Knead Wallaby-grass
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
MNG	<i>Hypolaena fastigiata</i>	Tassel Rope-rush
TTG	<i>Centrolepis strigosa ssp. strigosa</i>	Hairy Centrolepis
TTG	<i>Centrolepis aristata</i>	Pointed Centrolepis
SC	<i>Thysanotus patersonii</i>	Twining Fringe-lily

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MH	<i>Centaurea erythraea</i>	Common Centaury	high	low
MH	<i>Cicendia filiformis</i>	Slender Cicendia	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
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Vulpia spp.</i>	Fescue	high	low
MTG	<i>Romulea rosea</i>	Onion Grass	high	low
MNG	<i>Aira cupaniana</i>	Quicksilver Grass	high	low
MNG	<i>Aira caryophylla</i>	Silvery Hair-grass	high	low
MNG	<i>Juncus capitatus</i>	Capitate Rush	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Glenelg Plain bioregion

EVC 895: Escarpment Shrubland

Description:

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

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

Large trees⁺:

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

Tree Canopy Cover:

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

Understorey:

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

LF Code Species typical of at least part of EVC range Common Name

MS	r <i>Rhagodia parabolica</i>	Fragrant Saltbush
MS	<i>Hymenanthera dentata</i> s.l.	Tree Violet
SS	<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	Ruby Saltbush
LH	<i>Wahlenbergia communis</i> s.l.	Tufted Bluebell
MH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
MH	<i>Maireana enchylaenoides</i>	Wingless Bluebush
MH	<i>Einadia nutans</i> ssp. <i>nutans</i>	Nodding Saltbush
SH	<i>Chamaesyce drummondii</i>	Flat Spurge
SH	<i>Dichondra repens</i>	Kidney-weed
LTG	<i>Austrostipa bigeniculata</i>	Knead Spear-grass
MTG	<i>Austroanthonia racemosa</i> var. <i>racemosa</i>	Stiped Wallaby-grass
MTG	<i>Austroanthonia setacea</i>	Bristly Wallaby-grass
MNG	<i>Panicum effusum</i>	Hairy Panic
GF	<i>Cheilanthes distans</i>	Bristly Cloak-fern
SC	<i>Clematis microphylla</i>	Small-leaved Clematis
SC	<i>Convolvulus erubescens</i> spp. agg.	Pink Bindweed

EVC 895: Escarpment Shrubland - Glenelg Plain bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha⁺.

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

Weediness:

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

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