

EVC 3: Damp Sands Herb-rich Woodland

Description:

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

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 15 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name15%Eucalyptus obliquaMessmate Stringybark

Jiiuci Storey:			
Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	ΙΤ
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	8	20%	MS
Small Shrub	1	1%	SS
Prostrate Shrub	2	5%	PS
Large Herb	2	5%	LH
Medium Herb	9	20%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	2	10%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	4	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	2	10%	GF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL

LF Code	Species typical of at least part of EVC range	Common Name
Т	Acacia melanoxylon	Blackwood
MS	Leptospermum continentale	Prickly Tea-tree
MS	Acacia verticillata	Prickly Moses
MS	Bursaria spinosa ssp. spinosa	Sweet Bursaria
MS	Ozothamnus ferrugineus	Tree Everlasting
PS	Bossiaea prostrata	Creeping Bossiaea
LH	Senecio glomeratus	Annual Fireweed
MH	Gonocarpus tetragynus	Common Raspwort
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH	Geranium solanderi s.l.	Austral Cranesbill
MH	Acaena novae-zelandiae	Bidgee-widgee
SH	Kennedia prostrata	Running Postman
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LTG	Poa labillardierei	Common Tussock-grass
LNG	Tetrarrhena juncea	Forest Wire-grass
MTG	Dianella revoluta s.l.	Black-anther Flax-lily
MTG	Lepidosperma gladiatum	Coast Sword-sedge
MNG	Ficinia nodosa	Knobby Club-sedge
GF	Pteridium esculentum	Austral Bracken
SC	Glycine clandestina	Twining Glycine



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

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

15 m/0.1 ha.

Weediness:

rrccaiiic33.				
LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Centaurium erythraea	Common Centaury	high	low
MH	Anagallis arvensis	Pimpernel	high	low
MH	Medicago lupulina	Black Medic	high	low
MH	Acetosella vulgaris	Sheep Sorrel	high	low
LNG	Ammophila arenaria	Marram Grass	high	high
LNG	Holcus lanatus	Yorkshire Fog	high	high
MNG	Lagurus ovatus	Hare's-tail Grass	high	low
MNG	Stenotaphrum secundatum	Buffalo Grass	high	high
MNG	Dactylis glomerata	Cocksfoot	high	high

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Description:

EVC 6: Sand Heathland

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

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	6	30%	MS
Small Shrub	8	20%	SS
Prostrate Shrub	3	5%	PS
Medium Herb	3	5%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	2	10%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	6	15%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	1	1%	GF
Scrambler or Climber	3	5%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

LF Code	Species typical of at least part of EVC range	Common Name
MS	Banksia marginata	Silver Banksia
MS	Epacris impressa	Common Heath
MS	Leptospermum myrsinoides	Heath Tea-tree
MS	Leptospermum continentale	Prickly Tea-tree
SS	Platylobium obtusangulum	Common Flat-pea
SS	Isopogon ceratophyllus	Horny Cone-bush
SS	Pimelea humilis	Common Rice-flower
SS	Tetratheca ciliata	Pink-bells
PS	Acrotriche serrulata	Honey-pots
PS	Gompholobium ecostatum	Dwarf Wedge-pea
PS	Astroloma humifusum	Cranberry Heath
MH	Goodenia geniculata	Bent Goodenia
MH	Drosera peltata ssp. auriculata	Tall Sundew
SH	Viola cleistogamoides	Hidden Violet
LTG	Xanthorrhoea australis	Austral Grass-tree
LTG	Austrostipa mollis	Supple Spear-grass
LNG	Gahnia radula	Thatch Saw-sedge
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Schoenus apogon	Common Bog-sedge
MTG	r <i>Lepidosperma canescens</i>	Hoary Rapier-sedge
MTG	Austrodanthonia setacea	Bristly Wallaby-grass
MNG	Hypolaena fastigiata	Tassel Rope-rush
TTG	Schoenus breviculmis	Matted Bog-sedge
GF	Lindsaea linearis	Screw Fern
SC	Cassytha pubescens s.s.	Downy Dodder-laurel
SC	Cassytha glabella	Slender Dodder-laurel

Recruitment:

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

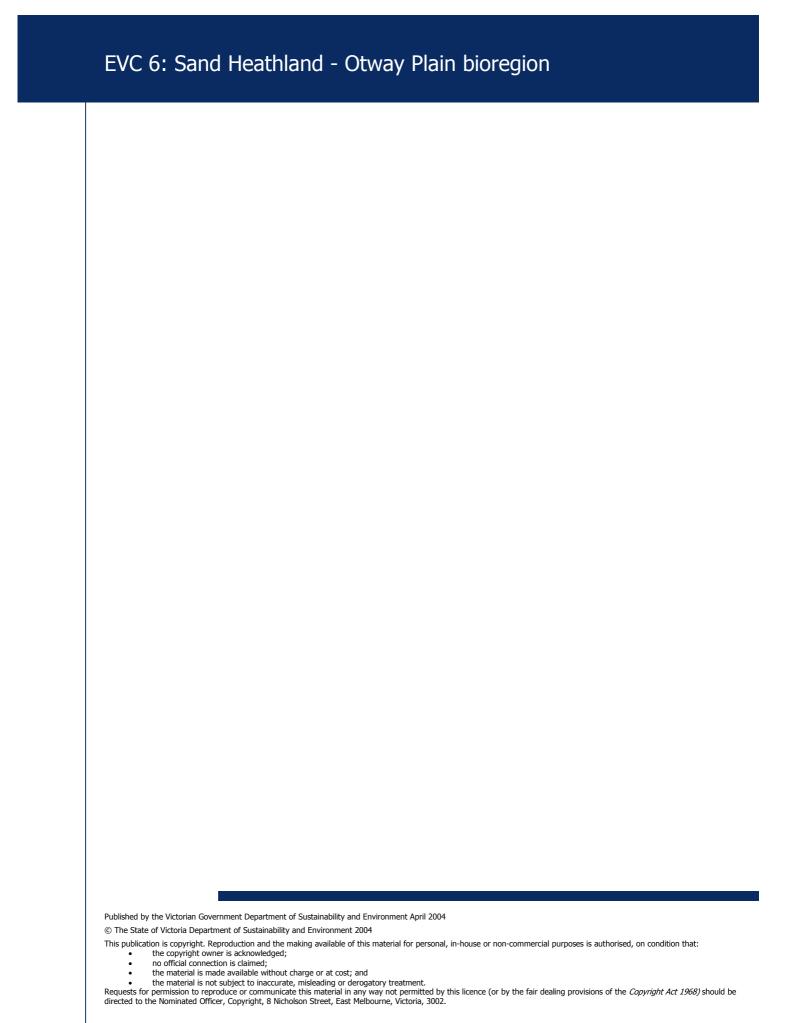
Organic Litter:

20% cover

Weediness:

There are no consistent weeds in this EVC.





EVC 7: Clay Heathland

Description:

Occurs on sites with impeded drainage, often on duplex soils. A variable shrubby EVC dominated by heath species. Occasional emergent eucalypts may be present. The ground layer is dense and diverse with a variety of lifeforms.

Life forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	8	40%	MS
Small Shrub	5	10%	SS
Prostrate Shrub	3	5%	PS
Medium Herb	7	10%	MH
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	6	15%	MTG
Medium to Tiny Non-tufted Graminoid	1	10%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

Species typical of at least part of EVC range	Common Name
Banksia marginata	Silver Banksia
Leptospermum myrsinoides	Heath Tea-tree
Persoonia juniperina	Prickly Geebung
Allocasuarina misera/paradoxa	Slender/Green Sheoak
Dillwynia glaberrima	Smooth Parrot-pea
Platylobium obtusangulum	Common Flat-pea
Leucopogon virgatus	Common Beard-heath
Hibbertia riparia	Erect Guinea-flower
Xanthosia pusilla spp. agg.	Heath Xanthosia
Astroloma humifusum	Cranberry Heath
Acrotriche serrulata	Honey-pots
Comesperma calymega	Blue-spike Milkwort
Platysace heterophylla	Slender Platysace
Goodenia geniculata	Bent Goodenia
Opercularia varia	Variable Stinkweed
Gahnia radula	Thatch Saw-sedge
Lepidosperma laterale	Variable Sword-sedge
Austrostipa semibarbata	Fibrous Spear-grass
Tricostularia pauciflora	Needle Bog-sedge
Lomandra filiformis	Wattle Mat-rush
Hypolaena fastigiata	Tassel Rope-rush
	Banksia marginata Leptospermum myrsinoides Persoonia juniperina Allocasuarina misera/paradoxa Dillwynia glaberrima Platylobium obtusangulum Leucopogon virgatus Hibbertia riparia Xanthosia pusilla spp. agg. Astroloma humifusum Acrotriche serrulata Comesperma calymega Platysace heterophylla Goodenia geniculata Opercularia varia Gahnia radula Lepidosperma laterale Austrostipa semibarbata Tricostularia pauciflora Lomandra filiformis

Recruitment:

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

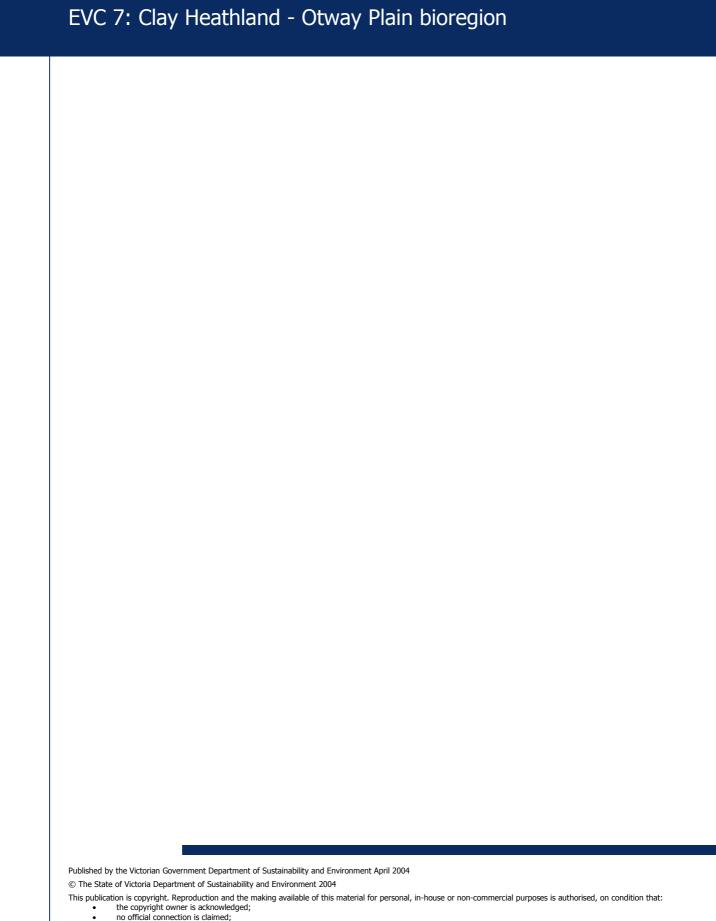
Organic Litter:

20% Cover

Weediness:

There are no consistent weeds in this EVC.





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EVC 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	5	40%	MS
Small Shrub	3	5%	SS
Large Herb	1	1%	LH
Medium Herb	2	5%	MH
Large Tufted Graminoid	2	10%	LTG
Medium to Small Tufted Graminoid	1	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	20%	MNG
Ground Fern	2	1%	GF
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	20%	BL

LF Code	Species typical of at least part of EVC range	Common Name
MS	Leptospermum continentale	Prickly Tea-tree
MS	Melaleuca squarrosa	Scented Paperbark
MS	Sprengelia incarnata	Pink Swamp-heath
MS	Epacris impressa	Common Heath
SS	Epacris lanuginosa	Woolly-style Heath
SS	Bauera rubioides	Wiry Bauera
SS	Tetratheca ciliata	Pink-bells
MH	Selaginella uliginosa	Swamp Selaginella
MH	Gonocarpus tetragynus	Common Raspwort
LTG	Xanthorrhoea australis	Austral Grass-tree
LTG	Gahnia sieberiana	Red-fruit Saw-sedge
MNG	Empodisma minus	Spreading Rope-rush
GF	Lindsaea linearis	Screw Fern
SC	Cassytha glabella	Slender Dodder-laurel

Recruitment:

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

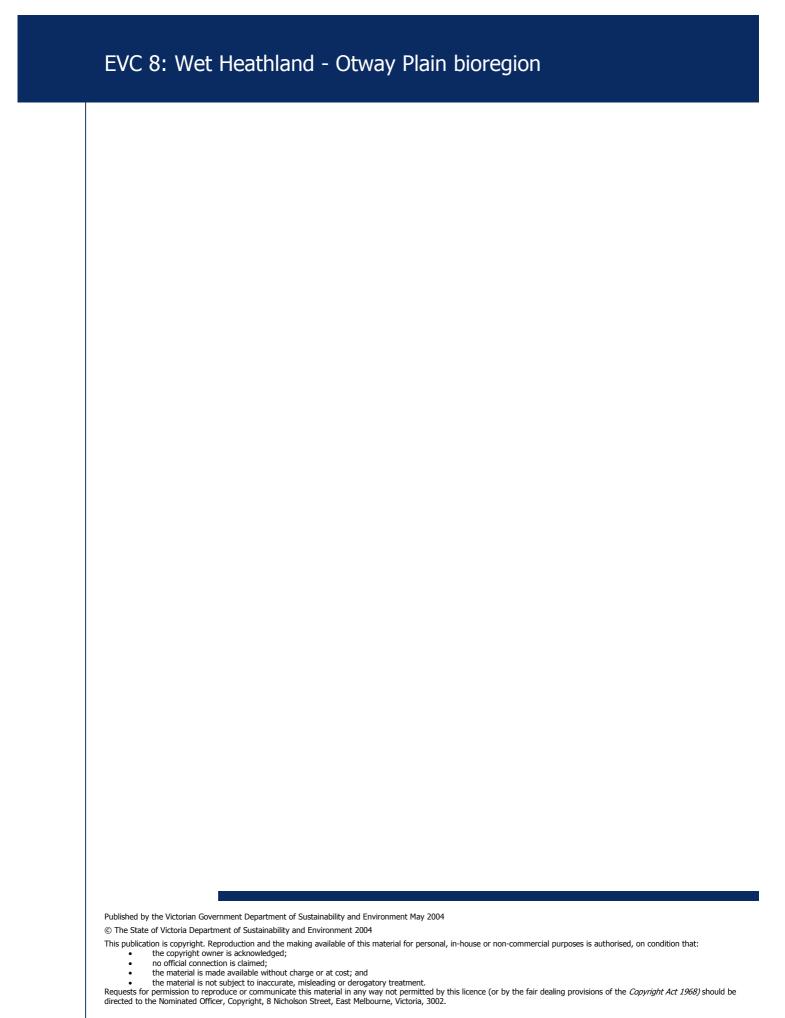
Organic Litter:

20% cover

Weediness:

There are no consistent weeds in this EVC.





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Description:

EVC 9: Coastal Saltmarsh

Occurs on and immediately above marine and estuarine tidal flats and contains distinct floristic communities as bands or zones in the same location, depending on the positioning of the various floristic communities in relation to the saline environment. Consists of a range of life forms including succulent herbs, low succulent shrubs, rushes and sedges.

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	1	10%	MS
Small Shrub	1	5%	SS
Prostrate Shrub	1	5%	PS
Medium Herb	3	15%	MH
Small or Prostrate Herb	1	5%	SH
Large Tufted Graminoid	1	5%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	1	1%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		65%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	Sclerostegia arbuscula	Shrubby Glasswort
MS	r Avicennia marina ssp. australasica	White Mangrove
SS	Suaeda australis	Austral Seablite
SS	Frankenia pauciflora var. gunnii	Southern Sea-heath
PS	Wilsonia humilis	Silky Wilsonia
MH	Sarcocornia quinqueflora	Beaded Glasswort
MH	Samolus repens	Creeping Brookweed
MH	Hemichroa pentandra	Trailing Hemichroa
LNG	Juncus kraussii ssp. australiensis	Sea Rush
MNG	Triglochin striatum	Streaked Arrowgrass
MNG	Distichlis distichophylla	Australian Salt-grass

Recruitment:

Continuous

Organic Litter:

10% cover

Weediness:

There are no consistent weeds in this EVC.





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EVC 10: Estuarine Wetland

Description:

Grows on anaerobic peat-rich muds on the edges of estuarine waterbodies such as creeks, rivers and lagoons with intermediate salinity conditions. Vegetation is determined by fluctuating salinity, which varies in time from occasionally fresh to brackish or occasionally saline according to river flood and marine tide events. Dominated by graminoids and halophytic herbs and often fringed by a tall scrub layer of Woolly Tea-tree *Leptospermum lanigerum* at the landward edge.

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	1	10%	MS
Large Herb	3	10%	LH
Medium Herb	4	10%	MH
Small or Prostrate Herb	4	15%	SH
Large Tufted Graminoid	1	10%	LNG
Large Non-tufted Graminoid	1	25%	LNG
Medium to Small Tufted Graminoid	2	10%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Scrambler or Climber	1	5%	SC
Total understorey projective foliage cover		90%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	Leptospermum lanigerum	Woolly Tea-tree
MS	Melaleuca squarrosa	Scented Paperbark
LH	Persicaria decipiens	Slender Knotweed
MH	Samolus repens	Creeping Brookweed
MH	Lobelia anceps	Angled Lobelia
SH	Selliera radicans	Shiny Swamp-mat
SH	Crassula helmsii	Swamp Crassula
SH	Mimulus repens	Creeping Monkey-flower
SH	Leptinella reptans s.l.	Creeping Cotula
LTG	Poa labillardierei	Common Tussock-grass
LNG	Phragmites australis	Common Reed
MNG	Triglochin striatum	Streaked Arrowgrass
SC	Calystegia sepium	Large Bindweed

Recruitment:

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

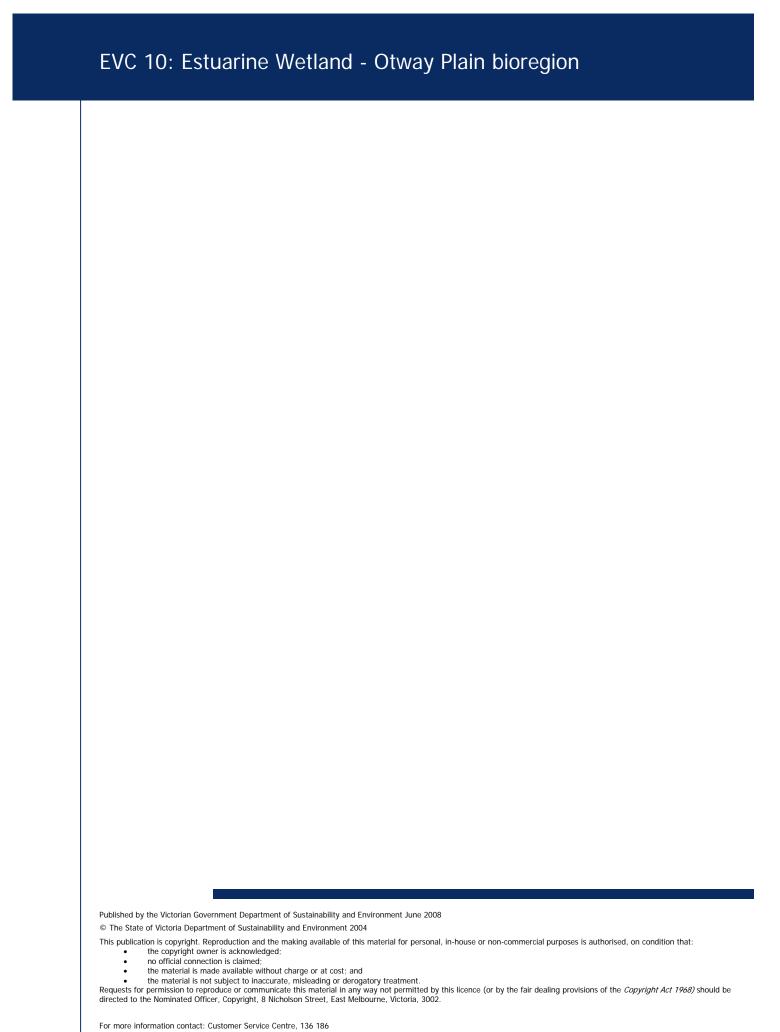
Organic Litter:

10% cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Aster subulatus	Aster-weed	high	low
LH	Plantago lanceolata	Ribwort	high	low
LH	Rumex crispus	Curled Dock	high	low
MH	Ranunculus repens	Creeping Buttercup	high	high
MH	Lotus uliginosus	Greater Bird's-foot Trefoil	high	low
MH	Cotula coronopifolia	Water Buttons	high	high
MH	Atriplex prostrata	Hastate Orache	high	high
MTG	Agrostis stolonifera	Creeping Bent	high	high
MNG	Polypogon viridis	Water Bent	high	high





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EVC 16: Lowland Forest

Description:

Open forest to 25 m tall characterised by the diversity of species and lifeforms in each stratum. Includes a variety of heathy understorey shrubs. It grows on a wide variety of geology and soils.

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 20 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name30%Eucalyptus obliquaMessmate StringybarkEucalyptus baxteri s.l.Brown StringybarkEucalyptus radiata ssp. radiataNarrow-leaf Peppermint

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	6	35%	MS
Small Shrub	4	10%	SS
Prostrate Shrub	2	1%	PS
Medium Herb	4	5%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	1	5%	LTG
Large Non-tufted Graminoid	2	10%	LNG
Medium to Small Tufted Graminoid	3	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	2	10%	GF
Bryophytes/Lichens	na	10%	BL

MS MS MS MS SS SS SS SS HS MH MH SH LTG LNG LNG MTG	Species typical of at least part of EVC range Banksia marginata Leptospermum continentale Epacris impressa Persoonia juniperina Tetratheca ciliata Platylobium obtusangulum Amperea xiphoclada var. xiphoclada Dillwynia glaberrima Acrotriche serrulata Gonocarpus tetragynus Viola hederacea sensu Willis (1972) Goodenia lanata Xanthorrhoea australis Gahnia radula Tetrarrhena juncea Lomandra filiformis	Common Name Silver Banksia Prickly Tea-tree Common Heath Prickly Geebung Pink-bells Common Flat-pea Broom Spurge Smooth Parrot-pea Honey-pots Common Raspwort Ivy-leaf Violet Trailing Goodenia Austral Grass-tree Thatch Saw-sedge Forest Wire-grass Wattle Mat-rush
		3
MNG MNG GF GF	Tetrarrhena distichophylla Empodisma minus Pteridium esculentum Lindsaea linearis	Hairy Rice-grass Spreading Rope-rush Austral Bracken Screw Fern



EVC 16: Lowland Forest - Otway Plain bioregion

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

There are no consistent weeds in this EVC.

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Description:

Occurs on a range of geologies on exposed aspects such as ridge-lines and medium to steep upper slopes, often in high rainfall areas and on shallow infertile soils. The overstorey is a low, open forest to 20 m tall characterised by the diversity and variability of the eucalypts. The understorey often lacks a secondary tree layer but contains a well-developed medium to low shrub layer. The ground layer is often very sparse with tussock-forming graminoids being the dominant life form.

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 60 cm
 20 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name30%Eucalyptus tricarpaRed IronbarkEucalyptus cypellocarpaMountain Grey-gumEucalyptus obliquaMessmate Stringybark

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	ΙΤ
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	5	25%	MS
Small Shrub	2	1%	SS
Prostrate Shrub	1	1%	PS
Medium Herb	3	5%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	2	10%	LTG
Medium to Small Tufted Graminoid	4	10%	MTG
Ground Fern	1	1%	GF
Scrambler or Climber	3	5%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		70 %	



EVC 21: Shrubby Dry Forest - Otway Plain bioregion

LF Code	Character Species	Common Name
Т	Exocarpos cupressiformis	Cherry Ballart
MS	Pultenaea daphnoides	Large-leaf Bush-pea
MS	Acacia verticillata	Prickly Moses
MS	Goodenia ovata	Hop Goodenia
MS	Acacia verniciflua	Varnish Wattle
SS	Pimelea humilis	Common Rice-flower
SS	Platylobium obtusangulum	Common Flat-pea
SS	Hibbertia stricta s.l.	Upright Guinea-flower
PS	Acrotriche serrulata	Honey-pots
PS	Bossiaea prostrata	Creeping Bossiaea
MH	Hypericum gramineum	Small St John's Wort
MH	Plantago varia	Variable Plantain
MH	Gonocarpus tetragynus	Common Raspwort
MH	Helichrysum scorpioides	Button Everlasting
SH	Goodenia lanata	Trailing Goodenia
SH	Kennedia prostrata	Running Postman
SH	Opercularia varia	Variable Stinkweed
SH	Drosera whittakeri ssp. aberrans	Scented Sundew
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LNG	Gahnia radula	Thatch Saw-sedge
LNG	Tetrarrhena juncea	Forest Wire-grass
MTG	Joycea pallida	Silvertop Wallaby-grass
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Austrodanthonia geniculata	Kneed Wallaby-grass
MTG	Lomandra multiflora ssp. multiflora	Many-flowered Mat-rus
MNG	Microlaena stipoides var. stipoides	Weeping Grass
GF	Pteridium esculentum	Austral Bracken
SC	Cassytha melantha	Coarse Dodder-laurel
SC	Cassytha glabella	Slender Dodder-laurel
SC	Billardiera scandens	Common Apple-berry
SC	Thysanotus patersonii	Twining Fringe-lily
SC	Comesperma volubile	Love Creeper
SC	Clematis aristata	Mountain Clematis

Recruitment:

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

Organic Litter:

20 % cover

Logs:

20 m/0.1 ha.

Weediness:

There are no consistent weeds in this EVC.

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EVC 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

 Eucalyptus spp.
 70 cm
 20 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name40%Eucalyptus obliqua
Eucalyptus cypellocarpa
Eucalyptus viminalis
Eucalyptus radiata s.l.Messmate Stringybark
Mountain Grey-gum
Mountain Grey-gum
Manna Gum
Narrow-leaf Peppermint

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



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

T MS MS MS MS		Species typical of at least part of EVC range Acacia melanoxylon Ozothamnus ferrugineus Acacia mucronata ssp. longifolia Leptospermum continentale	Common Name Blackwood Tree Everlasting Narrow-leaf Wattle Prickly Tea-tree
MS		Coprosma quadrifida	Prickly Currant-bush
SS	K	Olearia speciosa	Netted Daisy-bush
LH		Senecio glomeratus	Annual Fireweed
LH		Epilobium billardierianum	Variable Willow-herb
LH		Senecio hispidulus	Rough Fireweed
MH		Geranium solanderi s.l.	Austral Cranesbill
MH		Stellaria pungens	Prickly Starwort
MH		Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
SH		Lobelia pedunculata s.l.	Matted Pratia
SH		Oxalis corniculata s.l.	Yellow Wood-sorrel
SH		Hydrocotyle sibthorpioides	Shining Pennywort
SH		Cymbonotus preissianus	Austral Bear's-ear
LTG		Poa labillardierei	Common Tussock-grass
LTG		Deyeuxia quadriseta	Reed Bent-grass
LNG		Tetrarrhena juncea	Forest Wire-grass
MTG		Poa morrisii	Soft Tussock-grass
MTG		Dichelachne sciurea spp. agg.	Short-hair Plume-grass
MTG		Arthropodium strictum s.l.	Chocolate Lily
MNG		Poa tenera	Slender Tussock-grass
GF		Pteridium esculentum	Austral Bracken
SC		Clematis aristata	Mountain Clematis

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Senecio jacobaea	Ragwort	high	high
LH	Plantago lanceolata	Ribwort	high	low
LH	Cirsium vulgare	Spear Thistle	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Centaurium erythraea	Common Centaury	high	low
MH	Lotus corniculatus	Bird's-foot Trefoil	high	low
MH	Medicago lupulina	Black Medic	high	low
MH	Prunella vulgaris	Self-heal	high	low
MH	Cerastium spp.	Mouse-ear Chickweed	high	low
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high
MNG	Dactylis glomerata	Cocksfoot	high	high

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EVC 30: Wet Forest

Description:

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

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 90 cm
 20 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name40%Eucalyptus ovataSwamp Gum

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	4	30%	T
Medium Shrub	5	20%	MS
Medium Herb	2	5%	MH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	2	1%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	3	35%	GF
Tree Fern	1	5%	TRF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	20%	BL



EVC 30: Wet Forest - Otway Plain bioregion

LF Code		Species typical of at least part of EVC range	Common Name
T		Pomaderris aspera	Hazel Pomaderris
T		Notelaea ligustrina	Privet Mock-olive
T		Acacia melanoxylon	Blackwood
MS		Pimelea axiflora	Bootlace Bush
MS		Olearia lirata	Snowy Daisy-bush
MS		Hedycarya angustifolia	Austral Mulberry
MS		Coprosma quadrifida	Prickly Currant-bush
LH		Senecio minimus	Shrubby Fireweed
MH		Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH		Hydrocotyle hirta	Hairy Pennywort
MH		Gratiola peruviana	Austral Brooklime
SH		Lobelia pedunculata s.l.	Matted Pratia
LTG		Lepidosperma laterale var. majus	Variable Sword-sedge
LTG		Lepidosperma elatius	Tall Sword-sedge
LTG		Carex appressa	Tall Sedge
LNG		Tetrarrhena juncea	Forest Wire-grass
MTG		Dianella tasmanica	Tasman Flax-lily
MTG	r	Isolepis wakefieldiana	Tufted Club-sedge
MNG		Poa tenera	Slender Tussock-grass
MNG		Echinopogon ovatus	Common Hedgehog-grass
GF		Polystichum proliferum	Mother Shield-fern
GF		Blechnum wattsii	Hard Water-fern
GF		Blechnum nudum	Fishbone Water-fern
TRF		Dicksonia antarctica	Soft Tree-fern
EP		Hymenophyllum cupressiforme	Common Filmy Fern
SC		Parsonsia brownii	Twining Silkpod
SC		Clematis aristata	Mountain Clematis

Recruitment:

Continuous

Organic Litter:

50 % cover

Logs:

30 m/0.1 ha.

Weediness:

There are no consistent weeds in this EVC.

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Description:

Occurs on ridges and mainly on southern and eastern slopes in association with Damp Forest or Wet Forest on moderately fertile soils and at a range of elevations. The overstorey is a medium eucalypt forest to 25 m tall over an understorey characterised by a distinctive middle strata dominated by a diversity of narrow-leaved shrubs and a paucity of ferns, graminoids and herbs in the ground stratum.

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 20 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name40%Eucalyptus obliquaMessmate StringybarkEucalyptus radiata s.l.Narrow-leaf PeppermintEucalyptus baxteri s.l.Brown Stringybark

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

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LF_Code	Species typical of at least part of EVC range	Common Name
T	Acacia melanoxylon	Blackwood
MS	Acacia mucronata ssp. longifolia	Narrow-leaf Wattle
MS	Leptospermum continentale	Prickly Tea-tree
MS	Goodenia ovata	Hop Goodenia
MS	Acacia verticillata	Prickly Moses
SS	Tetratheca ciliata	Pink-bells
LH	Mentha laxiflora	Forest Mint
MH	Gonocarpus tetragynus	Common Raspwort
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH	Viola hederacea sensu Entwisle (1996)	Ivy-leaf Violet
SH	Goodenia lanata	Trailing Goodenia
LTG	Gahnia sieberiana	Red-fruit Saw-sedge
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LTG	Lepidosperma laterale var. majus	Variable Sword-sedge
LTG	Lepidosperma elatius	Tall Sword-sedge
LNG	Tetrarrhena juncea	Forest Wire-grass
MTG	Dianella tasmanica	Tasman Flax-lily
GF	Pteridium esculentum	Austral Bracken
GF	Blechnum nudum	Fishbone Water-fern
TRF	Cyathea australis	Rough Tree-fern
SC	Billardiera scandens	Common Apple-berry
SC	Clematis aristata	Mountain Clematis



EVC 45: Shrubby Foothill Forest - Otway Plain bioregion

Recruitment:

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

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

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

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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:

SpeciesDBH(cm)#/haEucalyptus spp.60 cm15 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name15%Eucalyptus obliquaMessmate StringybarkEucalyptus baxteri s.l.Brown Stringybark

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	7	30%	MS
Small Shrub	7	20%	SS
Prostrate Shrub	2	5%	PS
Medium Herb	5	5%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	4	15%	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 - Otway Plain bioregion

MS MS MS MS MS SS SS SS	Species typical of at least part of EVC range Banksia marginata Epacris impressa Leptospermum continentale Leptospermum myrsinoides Platylobium obtusangulum Tetratheca ciliata Hibbertia riparia	Common Name Silver Banksia Common Heath Prickly Tea-tree Heath Tea-tree Common Flat-pea Pink-bells Erect Guinea-flower
SS	Dillwynia glaberrima	Smooth Parrot-pea
PS	Acrotriche serrulata	Honey-pots
PS PS MH MH MH SH SH LTG LNG MTG MTG MTG MNG GF	Xanthosia pusilla spp. agg. Gompholobium ecostatum Gonocarpus tetragynus Drosera peltata ssp. auriculata Goodenia geniculata Drosera whittakeri ssp. aberrans Goodenia lanata Opercularia varia Xanthorrhoea australis Gahnia radula Lomandra filiformis Lepidosperma semiteres Lepidosperma filiforme Hypolaena fastigiata Lindsaea linearis	Heath Xanthosia Dwarf Wedge-pea Common Raspwort Tall Sundew Bent Goodenia Scented Sundew Trailing Goodenia Variable Stinkweed Austral Grass-tree Thatch Saw-sedge Wattle Mat-rush Wire Rapier-sedge Common Rapier-sedge Tassel Rope-rush Screw Fern
GF	Pteridium esculentum	Austral Bracken
SC	Cassytha glabella	Slender 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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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 *Leptospermun lanigerum* which often forms a dense impenetrable thicket, outcompeting other species. Emergent trees (eg. Swamp Gum *Eucalyptus ovata*) may some times be present. Where light penetrates to ground level, a moss/lichen/liverwort herbaceous ground cover is often present.

Canopy Cover:

%cover	Character Species	Common Name
60%	Leptospermum lanigerum	Woolly Tea-tree
	Melaleuca squarrosa	Scented Paperbark
	Acacia melanoxylon	Blackwood

#Spp	%Cover	LF code
2	10%	MS
3	10%	LH
7	20%	MH
1	5%	SH
2	5%	LTG
3	15%	LNG
3	10%	MTG
1	5%	MNG
1	1%	SC
na	20 %	BL
	2 3 7 1 2 3 3 1	2 10% 3 10% 7 20% 1 5% 2 5% 3 15% 3 10% 1 5% 1 1%

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



EVC 53: Swamp Scrub - Otway Plain bioregion

Recruitment:

Continuous

Organic Litter:

40 % cover

Weediness:

LF Code Typical Weed Species Common Name Invasive Impact LNG Holcus lanatus Yorkshire Fog high high

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Description:

Closed scrub to 6 m tall growing on the edge of estuarine waterbodies such as creeks, rivers and lagoons with intermediate salinity and poor drainage conditions. Dominated by Swamp Paperbark Melaleuca ericifolia with a halophytic (succulent) ground layer dominated by graminoids and herbs. Often occurs in close association with Estuarine Wetland.

Tree Canopy Cover:

%cover	Character Species	Common Name
50%	Melaleuca ericifolia	Swamp Paperbark

Understorey:

Lifeform	#Spp	%Cover	LF Code
Medium Shrub	2	10%	MS
Medium Herb	3	20%	MH
Small or Prostrate Herb	2	5%	SH
Medium to Small Tufted Graminoid	2	10%	MTG
Medium to Tiny Non-Tufted Graminoid	2	15%	MNG

LF Code	Species typical of at least part of EVC range	Common Name
MS	Atriplex cinerea	Coast Saltbush
MS	Rhagodia candolleana subsp. candolleana	Seaberry Saltbush
MH	Chenopodium glaucum	Glaucous Goosefoot
MH	Samolus repens	Creeping Brookweed
MH	Sarcocornia quinqueflora	Beaded Glasswort
SH	Apium prostratum subsp. prostratum	Sea Celery
SH	Selliera radicans	Shiny Swamp-mat
MTG	Poa labillardierei	Common Tussock-grass
MTG	Poa poiformis	Coast Tussock-grass
MNG	Distichlis distichophylla	Australian Salt-grass
MNG	Ficinia nodosa	Knobby Club-sedge

Recruitment:

Continuous.

Organic Litter:

20 % cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LNG	Holcus lanatus	Yorkshire Fog	high	high



EVC 53_62: Estuarine Swamp Scrub

Weediness:

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

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EVC 55: Plains Grassy Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name20%Eucalyptus ovataSwamp GumEucalyptus camaldulensisRiver Red-gumEucalyptus melliodoraYellow BoxEucalyptus viminalisManna GumEucalyptus leucoxylonYellow Gum

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Small Shrub	1	1%	SS
Prostrate Shrub	2	5%	PS
Large Herb	1	5%	LH
Medium Herb	10	20%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	1	5%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	9	35%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
Bryophytes/Lichens	na	10%	BL

LF Code T T T MS SS PS PS MH MH SH SH LTG LNG MTG MTG	Species typical of at least part of EVC range Allocasuarina littoralis Acacia melanoxylon Banksia marginata Acacia paradoxa Pimelea humilis Bossiaea prostrata Astroloma humifusum Hypericum gramineum Oxalis perennans Dichondra repens Poranthera microphylla Austrostipa rudis Gahnia radula Themeda triandra Carex breviculmis	Common Name Black Skeoak Blackwood Silver Banksia Hedge Wattle Common Rice-flower Creeping Bossiaea Cranberry Heath Small St John's Wort Grassland Wood-sorrel Kidney-weed Small Poranthera Veined Spear-grass Thatch Saw-sedge Kangaroo Grass Common Grass-sedge
MTG MTG MTG MNG	Carex breviculmis Lomandra filiformis Schoenus apogon Microlaena stipoides var. stipoides	Common Grass-sedge Wattle Mat-rush Common Bog-sedge Weeping Grass



EVC 55: Plains Grassy Woodland - Otway 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	Plantago lanceolata	Ribwort	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Centaurium erythraea	Common Centaury	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high
MNG	Romulea rosea	Onion Grass	high	low
MNG	Briza maxima	Large Quaking-grass	high	low
MNG	Briza minor	Lesser Quaking-grass	high	low

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EVC 56: Floodplain Riparian Woodland

Description:

An open eucalypt woodland to 15 m tall over a medium to large 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

 Eucalyptus spp.
 80 cm
 15 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name20%Eucalyptus camaldulensisRiver Red-gumEucalyptus ovataSwamp 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	10%	MS
Large Herb	3	5%	LH
Medium Herb	4	10%	MH
Small or Prostrate Herb	3	10%	SH
Large Tufted Graminoid	2	15%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	5	15%	MTG
Medium to Tiny Non-tufted Graminoid	3	10%	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
MS	Bursaria spinosa ssp. spinosa	Sweet Bursaria
MS	Acacia pycnantha	Golden Wattle
MS	Myoporum sp. 1	Sticky Boobialla
LH	Senecio glomeratus	Annual Fireweed
MH	Rumex brownii	Slender Dock
SH	Dichondra repens	Kidney-weed
SH	Crassula helmsii	Swamp Crassula
SH	Selliera radicans	Shiny Swamp-mat
SH	Hydrocotyle sibthorpioides	Shining Pennywort
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LTG	Poa labillardierei	Common Tussock-grass
LNG	Phragmites australis	Common Reed
MTG	Lachnagrostis filiformis	Common Blown-grass
MTG	Austrodanthonia penicillata	Slender Wallaby-grass
MTG	Dianella revoluta s.l.	Black-anther Flax-lily
MTG MNG	Bulbine bulbosa Triglochin striatum	Bulbine Lily Streaked Arrowgrass
MNG	Schoenus nitens	Shiny Bog-sedge
MNG	Distichlis distichophylla	Australian Salt-grass
SC	Cassytha melantha	Coarse Dodder-laurel
SC	Calystegia sepium	Large Bindweed



EVC 56: Floodplain Riparian Woodland - Otway Plain bioregion

Recruitment:

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

Organic Litter:

40 % cover

Logs:

30 m/0.1 ha.

Weediness:

Typical Weed Species	Common Name	Invasive	Impact
Rosa rubiginosa	Sweet Briar	low	high
Rumex conglomeratus	Clustered Dock	high	high
Sonchus oleraceus	Common Sow-thistle	high	low
Rumex crispus	Curled Dock	high	high
Helminthotheca echioides	Ox-tongue	high	high
Aster subulatus	Aster-weed	high	low
Cirsium vulgare	Spear Thistle	high	high
Sonchus asper s.l.	Rough Sow-thistle	high	low
Plantago lanceolata	Ribwort	high	high
Hypochoeris radicata	Cat's Ear	high	low
Plantago major	Greater Plantain	high	low
Brassica fruticulosa	Twiggy Turnip	high	high
Atriplex prostrata	Hastate Orache	high	high
Phalaris aquatica	Toowoomba Canary-grass	high	high
Holcus lanatus	Yorkshire Fog	high	high
Cyperus eragrostis	Drain Flat-sedge	high	high
Bromus catharticus		high	low
Lolium perenne	Perennial Rye-grass	high	high
Paspalum distichum	Water Couch	high	high
	Rosa rubiginosa Rumex conglomeratus Sonchus oleraceus Rumex crispus Helminthotheca echioides Aster subulatus Cirsium vulgare Sonchus asper s.l. Plantago lanceolata Hypochoeris radicata Plantago major Brassica fruticulosa Atriplex prostrata Phalaris aquatica Holcus lanatus Cyperus eragrostis Bromus catharticus Lolium perenne	Rosa rubiginosa Rumex conglomeratus Sonchus oleraceus Rumex crispus Helminthotheca echioides Aster subulatus Cirsium vulgare Sonchus asper s.l. Plantago lanceolata Hypochoeris radicata Plantago major Brassica fruticulosa Atriplex prostrata Phalaris aquatica Phalaris aquatica Holcus lanatus Cyperus eragrostis Bromus catharticus Lolium perenne Curled Dock Curled Dock Curled Dock Curled Dock Ox-tongue Aster-weed Spear Thistle Rough Sow-thistle Ribwort Cat's Ear Plantago major Greater Plantain Twiggy Turnip Atriplex prostrata Hastate Orache Phalaris aquatica Toowoomba Canary-grass Yorkshire Fog Drain Flat-sedge Prairie Grass Perennial Rye-grass	Rosa rubiginosaSweet BriarlowRumex conglomeratusClustered DockhighSonchus oleraceusCommon Sow-thistlehighRumex crispusCurled DockhighHelminthotheca echioidesOx-tonguehighAster subulatusAster-weedhighCirsium vulgareSpear ThistlehighSonchus asper s.l.Rough Sow-thistlehighPlantago lanceolataRibworthighHypochoeris radicataCat's EarhighPlantago majorGreater PlantainhighBrassica fruticulosaTwiggy TurniphighAtriplex prostrataHastate OrachehighPhalaris aquaticaToowoomba Canary-grasshighHolcus lanatusYorkshire FoghighCyperus eragrostisDrain Flat-sedgehighBromus catharticusPrairie GrasshighLolium perennePerennial Rye-grasshigh

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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

 Eucalyptus spp.
 80 cm
 15 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name15%Eucalyptus camaldulensisRiver Red-gum

Jiiuci Storey i			
Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	15%	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	30%	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 Acacia melanoxylon	Common Name Blackwood
T	Acacia retinodes	Wirilda
MS	Hymenanthera dentata s.l.	Tree Violet
SS	Rubus parvifolius	Small-leaf Bramble
SS	Enchylaena tomentosa var. tomentosa	Ruby Saltbush
MH	Oxalis perennans	Grassland Wood-sorrel
SH	Azolla filiculoides	Pacific Azolla
SH	Lemna disperma	Common Duckweed
LTG	Austrostipa bigeniculata	Kneed Spear-grass
LTG	Poa labillardierei	Common Tussock-garss
LNG	Phragmites australis	Common Reed
MTG	Austrodanthonia racemosa var. racemosa	Stiped Wallaby-grass
MTG	Austrodanthonia caespitosa	Common Wallaby-grass
MNG	Microlaena stipoides var. stipoides	Weeping Grass
SC	Glycine clandestina	Twining Glycine



EVC 68: Creekline Grassy Woodland - Otway Plain bioregion

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

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

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EVC 83: Swampy Riparian Woodland

Description:

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

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 10 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name10%Eucalyptus ovataSwamp Gum

onaci storcy:			
Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	3	10%	MS
Large Herb	3	5%	LH
Medium Herb	9	15%	MH
Small or Prostrate Herb	4	5%	SH
Large Tufted Graminoid	5	25%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	8	20%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	1	1%	GF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	20%	BL

, , ,	•		
LF Code		Species typical of at least part of EVC range	Common Name
<u>T</u>		Acacia melanoxylon	Blackwood
T		Acacia mearnsii	Black Wattle
MS		Acacia verticillata ssp. verticillata	Prickly Moses
MS		Leptospermum lanigerum	Woolly Tea-tree
MS		Ozothamnus rosmarinifolius	Rosemary Everlasting
LH		Senecio minimus	Shrubby Fireweed
LH		Persicaria praetermissa	Spotted Knotweed
MH		Acaena novae-zelandiae	Bidgee-widgee
SH		Leptinella reptans s.l.	Creeping Cotula
SH		Hydrocotyle sibthorpioides	Shining Pennywort
SH	Rτ	Lobelia beaugleholei	Showy Lobelia
LTG		Juncus procerus	Tall Rush
LTG		Cyperus lucidus	Leafy Flat-sedge
LTG		Juncus pallidus	Pale Rush
LTG		Poa labillardierei	Common Tussock-grass
MTG		Juncus planifolius	Broad-leaf Rush
MTG		Juncus pauciflorus	Loose-flower Rush
MTG		Triglochin procerum s.l.	Water Ribbons
MNG		Hemarthria uncinata var. uncinata	Mat Grass
MNG		Triglochin striatum	Streaked Arrowgrass
MNG		Empodisma minus	Spreading Rope-rush
GF		Pteridium esculentum	Austral Bracken
TRF		Cyathea australis	Rough Tree-fern
SC		Calystegia sepium	Large Bindweed
		,	5



EVC 83: Swampy Riparian Woodland - Otway Plain bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

20 m/0.1 ha.

Weediness:

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

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Shrubland to 3 m tall or open woodland to 15 m tall, with an understorey that can be rich in herbaceous species. Occurs on inundation-prone heavy grey soils in depressions or floodways in low rainfall areas.

Large trees+:

Species DBH(cm) #/ha

Eucalyptus spp. 80 cm

Tree Canopy Cover+:

%cover	Character Species	Common Name
10%	Eucalyptus camaldulensis	River Red Gum

Life forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	1	20%	MS
Large Herb	2	5%	LH
Medium Herb	4	20%	MH
Small or Prostrate Herb	3	10%	SH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	5	20%	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	Muehlenbeckia florulenta	Lignum
LH	<i>Brachyscome basaltica</i> var. <i>gracilis</i>	Woodland Swamp-daisy
LH	Rumex brownii	Slender Dock
MH	Marsilea drummondii	Common Nardoo
MH	Alternanthera denticulata s.l.	Lesser Joyweed
MH	Myriophyllum muelleri	Hooded Water-milfoil
SH	Eryngium vesiculosum	Prickfoot
SH	Lobelia pratioides	Poison Lobelia
SH	Lobelia concolor	Poison Pratia
LTG	Amphibromus nervosus	Common Swamp Wallaby-grass
MTG	Lachnagrostis filiformis	Common Blown-grass
MTG	Austrodanthonia duttoniana	Brown-back Wallaby-grass
MTG	Juncus subsecundus	Finger Rush
MNG	Eleocharis acuta	Common Spike-sedge
MNG	Eleocharis pusilla	Small Spike-sedge

Recruitment:

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

Organic Litter:

10 % cover

Logs+:

5 m/0.1 ha.



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

EVC 104: Lignum Swamp - Otway Plain bioregion

Weediness:

LF Code MS LH LH LH LH LH LH LH MH	Typical Weed Species Lycium ferocissimum Cirsium vulgare Sonchus oleraceus Helminthotheca echioides Cynara cardunculus Sonchus asper s.l. Aster subulatus Hypochoeris radicata Cerastium glomeratum s.l.	Common Name African Box-thorn Spear Thistle Common Sow-thistle Ox-tongue Spanish Artichoke Rough Sow-thistle Aster-weed Cat's Ear Common Mouse-ear Chickweed	Invasive high high high high high high high hig	Impact high high low high high low low low low
MH	Hypochoeris radicata	Cat's Ear	high	low
	31	****	3	
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low

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

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 20 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name30%Eucalyptus obliquaMessmate StringybarkEucalyptus radiata s.l.Narrow-leaf Peppermint

Understorey:

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

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



EVC 128: Grassy Forest - Otway Plain bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

20 m/0.1 ha.

Weediness:

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

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EVC 132: Plains Grassland

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

Life Forms:

Life form	#Spp	%Cover	LF code
Large Herb	3	10%	LH
Medium Herb	10	20%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	13	40%	MTG
Medium to Tiny Non-tufted Graminoid	4	10%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

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

Recruitment:

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

Organic Litter:

10% cover



EVC 132: Plains Grassland - Otway Plain bioregion

Weediness:

TT CCuiiic33.				
LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Plantago lanceolata	Ribwort	high	low
LH	Cirsium vulgare	Spear Thistle	high	high
LH	Sonchus oleraceus	Common Sow-thistle	high	low
MH	Hypochoeris radicata	Cat's Ear	high	high
MH	Leontodon taraxacoides ssp. taraxacoides	Hairy Hawkbit	high	low
MH	Trifolium subterraneum	Subterranean Clover	high	low
MH	Plantago coronopus	Buck's-horn Plantain	high	high
MH	Trifolium striatum	Knotted Clover	high	low
MH	Trifolium dubium	Suckling Clover	high	low
LTG	Phalaris aquatica	Toowoomba Canary-grass	high	high
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Romulea rosea	Onion Grass	high	low
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	Briza minor	Lesser Quaking-grass	high	low
MTG	Bromus hordeaceus ssp. hordeaceus	Soft Brome	high	low
MTG	Briza maxima	Large Quaking-grass	high	low
MTG	Lolium rigidum	Wimmera Rye-grass	high	low
MTG	Lolium perenne	Perennial Rye-grass	high	high
MTG	Nassella neesiana	Chilean Needle-grass	high	high
MNG	Cynosurus echinatus	Rough Dog's-tail	high	low
MNG	Juncus capitatus	Capitate Rush	high	low

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EVC 140: Mangrove Shrubland

Description:

Shrubland to 2 m tall. Confined to protected low energy coastal environments where there is sufficient shelter from strong wave action and currents to allow the accumulation of fine sediments, generally on mud flats within the tidal zone.

Life Forms:

Life form #Spp %Cover LF code Medium Shrub 40% MS Medium to Tiny Non-tufted Graminoid 5% MNG Total understorey projective foliage cover 25%

LF Code Species typical of at least part of EVC range **Common Name** Avicennia marina ssp. australasica White Mangrove Dwarf Grass-wrack

MNG Zostera muelleri

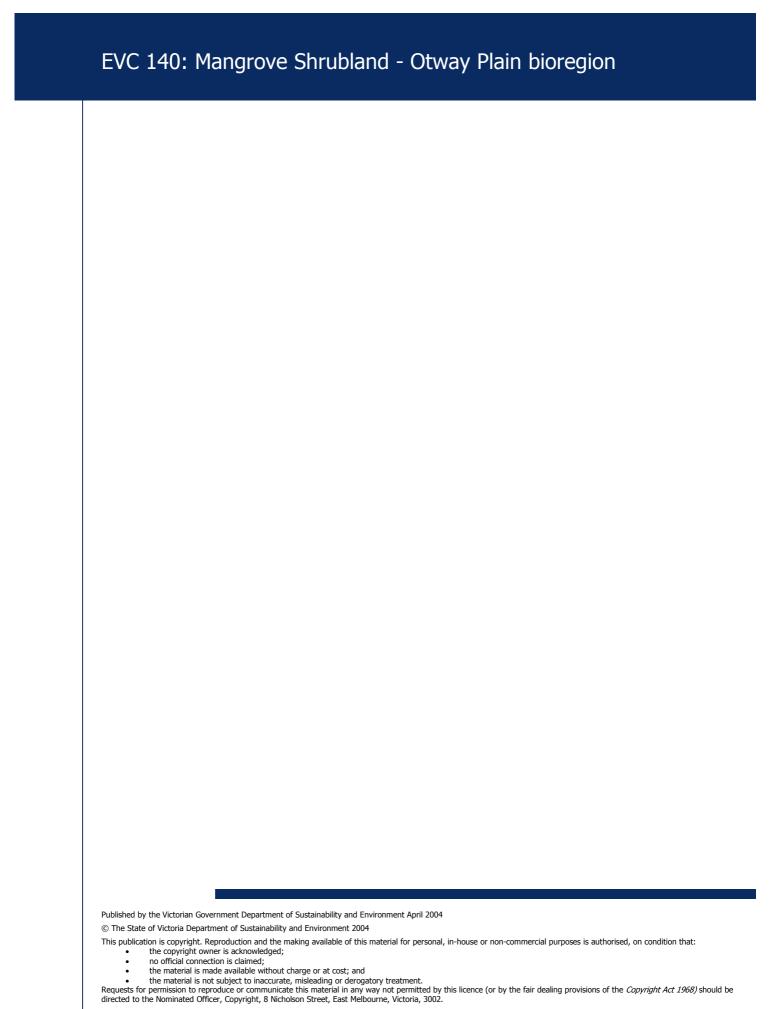
Recruitment:

Continuous

Weediness:

There are no consistent weeds in this EVC.





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EVC 154: Bird Colony Shrubland

Description:

A shrubland to 2.2 m tall dominated by Coast Hollyhock and confined to sand dunes on Mutton Bird Island, Port Phillip Bay. The poorly structured sandy soils are subject to intense trampling and tunnelling by sea bird breeding colonies.

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	3	40%	SS
Large Herb	1	10%	LH
Medium Non-Tufted Graminoid	1	5%	MNG
Total understorey projective foliage cover		30%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	Malva sp. aff. australiana	Coast Hollyhock
MS	Solanum laciniatum	Large Kangaroo Apple
MS	Atriplex cinerea	Coast Saltbush
LH	Epilobium hirtigerum	Hairy Willow-herb
MNG	Ficinia nodosa	Knobby Club-sedae

Recruitment:

Continuous

Organic Litter:

10% cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MTG	Critesion murinum	Barley-grass	high	high
MTG	Ehrharta longiflora	Annual Veldt-grass	high	high
MTG	Poa annua	Annual Meadow-grass	high	high
LH	Solanum furcatum	Broad Nightshade	high	high
LH	Solanum nigrum s.s.	Black Nightshade	high	high
LH	Sonchus oleraceus	Common Sow-thistle	high	high
LH	Urtica urens	Small Nettle	high	high
MH	Atriplex prostrata	Hastate Orache	high	high
MH	Arctotheca calendula	Cape Weed	high	high
SH	Malva nicaeensis	Mallow of Nice	high	high





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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 area subject to high levels of saltspray and continuous disturbance from onshore winds.

Understorey:

Lifeform	#Spp	%Cover	LF Code
Medium Shrub	7	50%	MS
Small Shrub	1	1%	SS
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	Atriplex cinerea	Coast Saltbush
MS	Leucopogon parviflorus	Coast Beard-heath
MS	Rhagodia candolleana subsp. candolleana	Seaberry Saltbush
SS	Suaeda australis	Austral Seablite
LH	Senecio pinnatifolius	Variable Groundsel
MH	Lagenophora stipitata	Common Bottle-daisy
MH	Senecio spathulatus s.l.	Dune Groundsel
SH	Apium prostratum subsp. prostratum	Sea Celery
SH	Carpobrotus rossii	Karkalla
SH	Threlkeldia diffusa	Coast Bonefruit
MTG	Lachnagrostis billardierei subsp. billardierei	Coast Blown-grass
MTG	Poa australis spp. agg.	Tussock Grass
MNG	Ficinia nodosa	Knobby Club-sedge
SC	Clematis microphylla var. microphylla	Small-leaved Clematis
SC	Tetragonia implexicoma	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
LH	Senecio elegans	Purple Groundsel	high	high
MS	Rhamnus alaternus	Italian Buckthorn	high	high
SC	Asparagus asparagoides	Bridal Creeper	high	high
LNG	Ammophila arenaria	Marram Grass	high	high
MS	Lycium ferocissimum	African Box-thorn	high	high
MH	Galium murale	Small Goosegrass	high	low
MNG	Lagurus ovatus	Hare's-tail Grass	high	low
MTG	Catapodium rigidum	Fern Grass	high	low
LH	Sonchus asper s.l.	Rough Sow-thistle	high	low
MH	Cerastium glomeratum s.l.	Common Mouse-ear Chickweed	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
LH	Melilotus indicus	Sweet Melilot	high	low
LH	Sonchus oleraceus	Common Sow-thistle	high	low

For more information contact: Customer Service Centre, 136 186

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Scrub or low shrubland to 2 m tall 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	8	60%	MS
Small Shrub	1	1%	SS
Prostrate Shrub	2	5%	PS
Medium Herb	2	5%	MH
Medium Tufted Graminoid	1	5%	LTG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		65%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	Leptospermum continentale	Prickly Tea-tree
MS	Epacris impressa	Common Heath
MS	Correa reflexa	Common Correa
MS	Leptospermum scoparium	Manuka
SS	Isopogon ceratophyllus	Horny Cone-bush
PS	Astroloma humifusum	Cranberry Heath
PS	Acrotriche serrulata	Honey-pots
MH	Veronica calycina	Hairy Speedwell
MH	Daucus glochidiatus	Australian Carrot
MTG	Lomandra longifolia	Spiny-headed Mat-rush
SC	Cassytha melantha	Coarse Dodder-laurel

Recruitment:

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

EVC 161: Coastal Headland Scrub

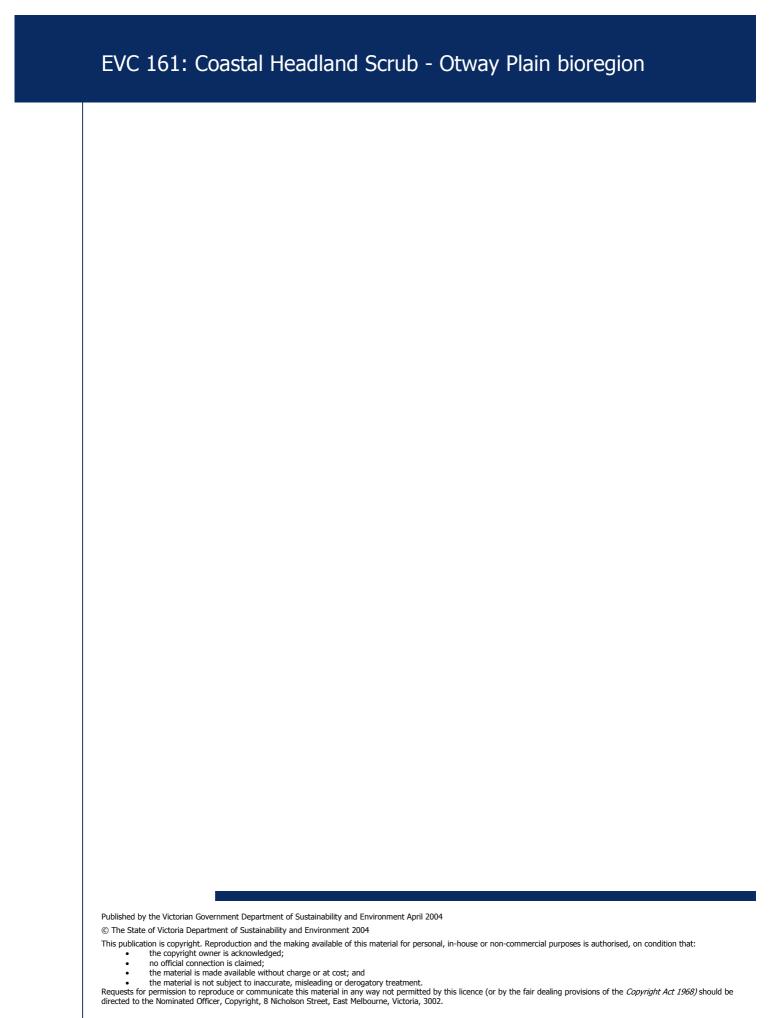
Organic Litter:

40 % cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Lycium ferocissimum	African Box-thorn	high	high
LH	Cirsium vulgare	Spear Thistle	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Centaurium erythraea	Common Centaury	high	low
MH	Trifolium dubium	Suckling Clover	high	low
SH	Trifolium repens var. repens	White Clover	high	low
MNG	Lagurus ovatus	Hare's-tail Grass	high	low
MNG	Dactylis glomerata	Cocksfoot	high	high
SC	Vicia sativa	Common Vetch	high	low





For more information contact: Customer Service Centre, 136 186

EVC 163: Coastal Tussock Grassland

Description:

A tussock grassland that may contain emergent shrubs. Occurs on exposed coastal cliffs and bluffs. Soils are saline and the strong salt-laden winds preclude tree growth.

Life Forms:

LH

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

LF Code	Species typical of at least part of EVC range
MS	Leucopogon parviflorus
MS	Correa alba

Epilobium billardierianum ssp. billardierianum

MH Viola hederacea sensu Willis (1972) MH Samolus repens MΗ Asperula conferta МН Sarcocornia quinqueflora SH Selliera radicans SH Mimulus repens SH Leptinella reptans s.l. LTG Austrostipa stipoides LTG Dichelachne crinita Isolepis cernua MTG MTG Poa poiformis

MTG Lachnagrostis filiformis
MTG Dianella brevicaulis
MNG Distichlis distichophylla
MNG Triglochin striatum
MNG Ficinia nodosa

Recruitment: Continuous

Organic Litter:

20% Cover

Common Name

Coast Beard-heath White Correa Smooth Willow-herb Ivy-leaf Violet Creeping Brookweed Common Woodruff Beaded Glasswort Shiny Swamp-mat Creeping Monkey-flower Creeping Cotula Prickly Spear-grass Long-hair Plume-grass Nodding Club-sedge Coast Tussock-grass Common Blown-grass Coast Flax-lily Australian Salt-grass Streaked Arrowgrass Knobby Club-sedge



EVC 163: Coastal Tussock Grassland - Otway Plain bioregion

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Rubus sp. aff. armeniacus	Blackberry	high	high
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Plantago lanceolata	Ribwort	high	low
LH	Sonchus asper s.l.	Rough Sow-thistle	high	low
LH	Centaurium tenuiflorum	Slender Centaury	high	low
MH	Lotus suaveolens	Hairy Bird's-foot Trefoil	high	low
MH	Plantago coronopus	Buck's-horn Plantain	high	low
MH	Anagallis arvensis	Pimpernel	high	low
MH	Leontodon taraxacoides ssp. taraxacoides	Hairy Hawkbit	high	low
LTG	Ammophila arenaria	Marram Grass	high	high
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Polypogon monspeliensis	Annual Beard-grass	high	low

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Scrub or shrubland to 5 m tall on flat to gently sloping terrain subject to seasonal waterlogging. Dominated by a dense shrub layer and numerous graminoids on generally sandy soils.

Life forms

Life form	#Spp	%Cover	LF code
Medium Shrub	7	50%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	2	5%	PS
Large Herb	1	1%	LH
Medium Herb	2	5%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	2	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
Ground Fern	1	1%	GF
Bryophytes/Lichens	na	20%	BL
Soil Crust	na	10%	S/C

00 0. 400	110	2070	3, 3
LF Code	Species typical of at least part of EVC range	•	Common Name
MS	Leptospermum continentale		Prickly Tea-tree
MS	Melaleuca squarrosa		Scented Paperbark
MS	Allocasuarina paludosa		Scrub Sheoak
MS	Epacris impressa		Common Heath
SS	Platylobium obtusangulum		Common Flat-pea
SS	Epacris lanuginosa		Woolly-style Heath
PS	Bossiaea prostrata		Creeping Bossiaea
PS	Xanthosia pusilla spp. agg.		Heath Xanthosia
PS	Acrotriche serrulata		Honey-pots
MH	Gonocarpus tetragynus		Common Raspwort
MH	Selaginella uliginosa		Swamp Selaginella
SH	Goodenia lanata		Trailing Goodenia
LTG	Xanthorrhoea australis		Austral Grass-tree
MTG	Lepidosperma filiforme		Common Rapier-sedge
MNG	Tetrarrhena distichophylla		Hairy Rice-grass
MNG	Empodisma minus		Spreading Rope-rush
MNG	Poa tenera		Slender Tussock-grass
GF	Pteridium esculentum		Austral Bracken
GF	Lindsaea linearis		Screw Fern
SC	Cassytha glabella		Slender Dodder-laurel

Recruitment:

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

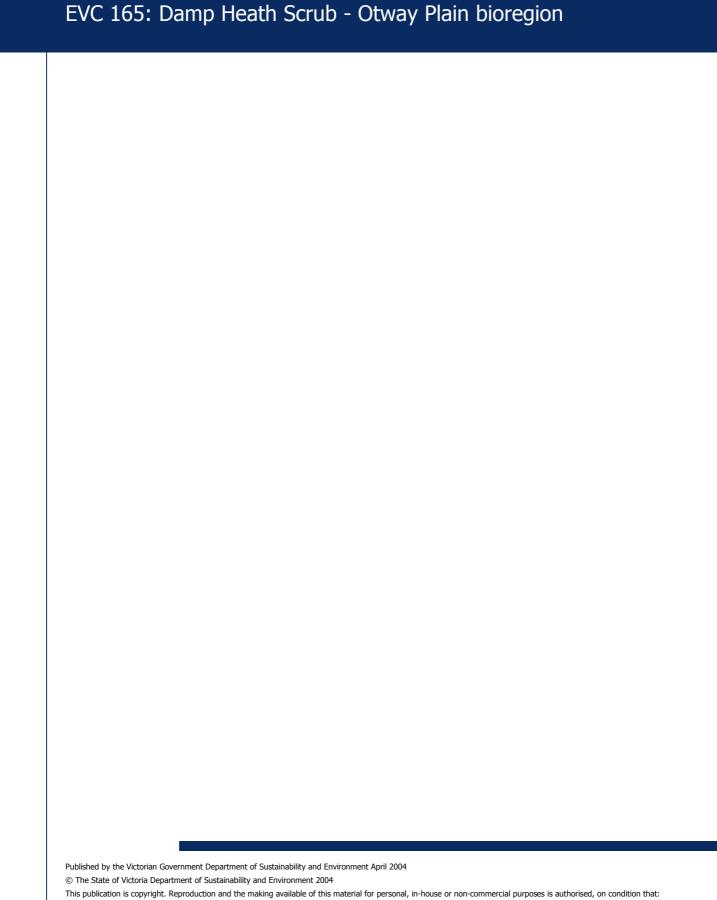
Organic Litter:

40 % cover

Weediness:

There are no consistent weeds in this EVC.





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A variable open eucalypt woodland to 15 m tall or occasionally Sheoak woodland to 10 m tall over a diverse ground layer of grasses and herbs. The shrub component is usually sparse. It occurs on sites with moderate fertility on gentle slopes or undulating hills on a range of geologies.

Large trees:

SpeciesDBH(cm)#/haEucalyptus spp.70 cm15 / haAllocasuarina spp.40 cm

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name15%Eucalyptus radiata s.l.Narrow-leaf PepperminteEucalyptus leucoxylon ssp. bellarinensisBellarine Yellow-gumAllocasuarina verticillataDrooping Sheoak

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	6	20%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	2	1%	PS
Large Herb	3	5%	LH
Medium Herb	8	15%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	3	10%	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	1	5%	GF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL



EVC 175: Grassy Woodland - Otway Plain bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	Acacia mearnsii	Black Wattle
T	Allocasuarina littoralis	Black Sheoak
MS	Leptospermum continentale	Prickly Tea-tree
MS	Epacris impressa	Common Heath
MS	Cassinia aculeata	Common Cassinia
SS	Pimelea humilis	Common Rice-flower
SS	Hibbertia riparia	Erect Guinea-flower
PS	Bossiaea prostrata	Creeping Bossiaea
PS	Astroloma humifusum	Cranberry Heath
PS	Acrotriche serrulata	Honey-pots
LH	Pterostylis longifolia s.l.	Tall Greenhood
MH	Gonocarpus tetragynus	Common Raspwort
MH	Drosera peltata ssp. auriculata	Tall Sundew
SH	Dichondra repens	Kidney-weed
SH	Opercularia varia	Variable Stinkweed
SH	Drosera whittakeri ssp. aberrans	Scented Sundew
LTG	Deyeuxia quadriseta	Reed Bent-grass
LTG	Xanthorrhoea minor ssp. lutea	Small Grass-tree
LNG	Gahnia radula	Thatch Saw-sedge
MTG	Lomandra filiformis	Wattle Mat-rush
MTG	Themeda triandra	Kangaroo Grass
MTG	Poa sieberiana	Grey Tussock-grass
MTG	Lepidosperma laterale	Variable Sword-sedge
MNG	Microlaena stipoides var. stipoides	Weeping Grass
GF	Pteridium esculentum	Austral Bracken
SC	Comesperma volubile	Love Creeper
SC	Billardiera scandens	Common Apple-berry

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
T	Pinus radiata	Radiata Pine	high	high
T	Pittosporum undulatum	Sweet Pittosporum	high	high
MS	Chrysanthemoides monilifera	Boneseed	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high
MTG	Briza maxima	Large Quaking-grass	high	low

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EVC 196: Seasonally Inundated Sub-saline Herbland

Description:

Dominated by low-growing succulents and estuarine species. Occupies broad shallow basins that fill for several months following major floods. The geology is recent aeolian estuarine sands and the rainfall is approximately 600 mm per annum. Soils are grey silty clays.

Life Forms:

Life form	#Spp	%Cover	LF code
Prostrate Shrub	2	20%	PS
Medium Herb	2	30%	MH
Medium Non-tufted Graminoid	1	5%	MNG
Soil Crust	na	10 %	S/C
Total understorey projective foliage cover		65%	

LF Code	Species typical of at least part of EVC range	Common Name
PS	Wilsonia humilis	Silky Wilsonia
PS	Wilsonia backhousei	Narrow-leaf Wilsonia
MH	Sarcocornia quinqueflora	Beaded Glasswort
MH	Apium annuum	Annual Celery
MNG	Triglochin striatum	Streaked Arrowgrass

Recruitment:

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

Organic Litter:

10 % cover

Logs:

15 m/0.1 ha.

Weediness:

There are no consistent weeds in this EVC.



EVC 196: Seasonally Inundated Sub-saline Herbland -Otway Plain bioregion

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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

 Eucalyptus spp.
 70 cm
 15 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name20%Eucalyptus ovataSwamp GumEucalyptus obliquaMessmate Stringybark

Understorey:

onaciotorcy.				
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	6	10%	MH	
Small or Prostrate Herb	3	5%	SH	
Large Tufted Graminoid	3	25%	LTG	
Large Non-tufted Graminoid	2	15%	LNG	
Medium to Small Tufted Graminoid	3	10%	MTG	
Medium to Tiny Non-tufted Graminoid	2	10%	MNG	
Ground Fern	2	10%	GF	
Bryophytes/Lichens	na	10%	BL	

MS MS	Species typical of at least part of EVC range Leptospermum continentale Acacia verticillata ssp. verticillata	Common Name Prickly Tea-tree Prickly Moses
MS	Melaleuca squarrosa	Scented Paperbark
MS MH	Coprosma quadrifida Gonocarpus tetragynus	Prickly Currant-bush Common Raspwort
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH	Hydrocotyle hirta	Hairy Pennywort
SH	Oxalis exilis	Shady Wood-sorrel
SH	Lobelia pedunculata s.l.	Matted Pratia
LTG	Lepidosperma laterale var. majus	Variable Sword-sedge
LTG	Gahnia sieberiana	Red-fruit Saw-sedge
LTG	Carex appressa	Tall Sedge
LNG	Gahnia radula	Thatch Saw-sedge
LNG	Tetrarrhena juncea	Forest Wire-grass
MTG	Dianella tasmanica	Tasman Flax-lily
MTG	Juncus planifolius	Broad-leaf Rush
MNG	Poa tenera	Slender Tussock-grass
MNG	Tetrarrhena distichophylla	Hairy Rice-grass
GF	Pteridium esculentum	Austral Bracken
GF	Blechnum nudum	Fishbone Water-fern
GF	Blechnum minus	Soft Water-fern
EP	Amyema pendula	Drooping Mistletoe



EVC 198: Sedgy Riparian Woodland - Otway Plain bioregion

Recruitment:

Continuous

Organic Litter:

30 % cover

Logs:

20 m/0.1 ha.

Weediness:

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

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EVC 201: Shrubby Wet Forest

Description:

Tall eucalypt forest to 30 m tall with scattered understorey trees over a tall broad-leaved shrubby understorey and a moist, shaded, fern-rich ground layer that is usually dominated by tree-ferns. Herbs may also be abundant where light penetrates the ground layer.

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 90 cm
 20 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name40%Eucalyptus obliqua
Eucalyptus viminalisMessmate Stringybark
Manna Gum

Understorey:

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



EVC 201: Shrubby Wet Forest - Otway Plain bioregion

LF Code	Species typical of at least part of EVC range Olearia argophylla	Common Name Musk Daisy-bush
T	Notelaea ligustrina	Privet Mock-olive
MS	Ozothamnus ferrugineus	Tree Everlasting
MS	Acacia verticillata	Prickly Moses
MS	Olearia lirata	Snowy Daisy-bush
MS	Goodenia ovata	Hop Goodenia
SS	Tetratheca ciliata	Pink-bells
SS	Pultenaea stricta	Rigid Bush-pea
PS	Acrotriche serrulata	Honey-pots
LH	Mentha laxiflora	Forest Mint
LH	Senecio glomeratus	Annual Fireweed
LH	Pterostylis longifolia s.l.	Tall Greenhood
LH	Wahlenbergia gracilis s.l.	Sprawling Bluebell
MH	Gonocarpus humilis	Shade Raspwort
MH	Viola hederacea sensu Willis (1972)	Ivy-leaf Violet
MH	Acaena novae-zelandiae	Bidgee-widgee
MH	Daucus glochidiatus	Australian Carrot
SH	Oxalis corniculata s.l.	Yellow Wood-sorrel
SH	Leptostigma reptans	Dwarf Nertera
SH	Goodenia lanata	Trailing Goodenia
LTG	Lomandra longifolia	Spiny-headed Mat-rush
LTG	Lepidosperma elatius	Tall Sword-sedge
LTG	Carex appressa	Tall Sedge
LNG	Tetrarrhena juncea	Forest Wire-grass
MTG	Stylidium graminifolium s.l.	Grass Trigger-plant
MTG	Poa sieberiana	Grey Tussock-grass
MTG	Dianella tasmanica	Tasman Flax-lily
MTG	Dianella revoluta s.l.	Black-anther Flax-lily
MNG	Poa tenera	Slender Tussock-grass
GF	Pteridium esculentum	Austral Bracken
GF	Calochlaena dubia	Common Ground-fern
GF	Blechnum nudum	Fishbone Water-fern
GF	Adiantum aethiopicum	Common Maidenhair
TRF	Cyathea australis	Rough Tree-fern
SC	Clematis aristata	Mountain Clematis
SC	Billardiera scandens	Common Apple-berry
SC	Billardiera longiflora var. longiflora	Purple Apple-berry

Recruitment:

Continuous

Organic Litter:

50 % cover

Logs:

30 m/0.1 ha.

Weediness:

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

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EVC 203: Stony Rises Woodland

Description:

Eucalypt woodland to 15 m tall on stony rises (highly irregular terrain on recent basalt flows). Soils are fertile and well-drained but shallow or skeletal. Limited soil development outside of rock-cracks and dry summers promote annuals and deep-rooted perennials.

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 15 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name15%Eucalyptus viminalisManna Gum

Understorey:

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

LF Code	Species typical of at least part of EVC range	Common Name
T	Acacia melanoxylon	Blackwood
MS	Cassinia longifolia	Shiny Cassinia
SS	Rubus parvifolius	Small-leaf Bramble
LH	Epilobium billardierianum ssp. cinereum	Grey Willow-herb
LH	Senecio pinnatifolius	Variable Groundsel
LH	Rumex brownii	Slender Dock
MH	Acaena novae-zelandiae	Bidgee-widgee
MH	Geranium solanderi s.l.	Austral Cranesbill
MH	Ranunculus sessiliflorus	Annual Buttercup
MH	<i>Parietaria debilis</i> s.l.	Shade Pellitory
SH	Oxalis exilis	Shady Wood-sorrel
SH	Crassula sieberiana	Sieber Crassula
SH	Dichondra repens	Kidney-weed
MTG	Austrodanthonia racemosa var. racemosa	Stiped Wallaby-grass
MTG	Dichelachne rara	Common Plume-grass
MTG	Poa ensiformis	Sword Tussock-grass
GF	Pteridium esculentum	Austral Bracken
GF	Asplenium flabellifolium	Necklace Fern
GF	Cheilanthes austrotenuifolia	Green Rock Fern
SC	Clematis microphylla	Small-leaved Clematis



EVC 203: Stony Rises Woodland - Otway Plain bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

Weediness:

weediness:	i			
LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Carduus pycnocephalus	Slender Thistle	high	high
LH	Sonchus asper s.l.	Rough Sow-thistle	high	low
LH	Cirsium vulgare	Spear Thistle	high	high
LH	Solanum nigrum sensu Willis (1972)	Black Nightshade	high	low
MH	Cerastium glomeratum s.l.	Common Mouse-ear Chickweed	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Veronica persica	Persian Speedwell	high	low
MH	Trifolium subterraneum	Subterranean Clover	high	low
MH	Trifolium dubium	Suckling Clover	high	low
MH	Acetosella vulgaris	Sheep Sorrel	high	high
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	high
MTG	Bromus diandrus	Great Brome	high	low

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EVC 233: Wet Sands Thicket

Dense, impenetrable heathy scrub to 5 m tall with occasional emergent eucalypts. Occurs on Tertiary outwash geology on deep sandy grey loams to sands.

Lifeforms:

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

MS MS MS MS SS SS SS SS MH SH LTG	Acac Lept Pime r Mon Leuc Dillw Baue Amp Sela Mitra Gahi	cies typical of at least part of EVC range ria verticillata rispermum continentale relea linifolia rotoca glauca ropogon australis rynia glaberrima rera rubioides rerea xiphoclada var. xiphoclada rginella uliginosa rasacme pilosa var. pilosa ria sieberiana	Common Name Prickly Moses Prickly Tea-tree Slender Rice-flower Currant-wood Spike Beard-heath Smooth Parrot-pea Wiry Bauera Broom Spurge Swamp Selaginella Hairy Mitrewort Red-fruit Saw-sedge
LIG MTG		nia sieberiana rsonia fragilis	Red-fruit Saw-sedge Short Purple-flag
MNG GF SC	Tetra Linds	arrhena distichophylla saea linearis sytha glabella	Hairy Rice-grass Screw Fern Slender Dodder-laurel

Recruitment:

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

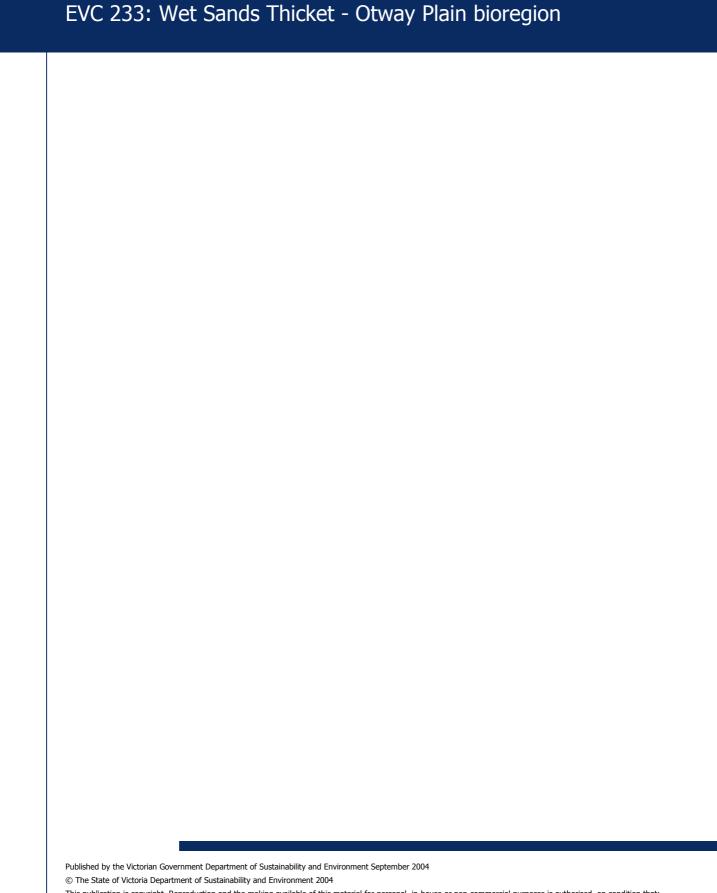
Organic Litter:

40 % cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Coprosma repens	Mirror Bush	high	high
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Lotus uliginosus	Greater Bird's-foot Trefoil	high	low
MH	Centaurium erythraea	Common Centaury	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	low
MTG	Briza minor	Lesser Quaking-grass	high	low
MTG	Anthoxanthum odoratum	Sweet Vernal-grass	high	low
SC	Rubus sp. aff. armeniacus	Blackberry	high	high





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Description:Low shrubland to 1.5 m tall occurring in sheltered coastal areas where sand deposits have formed as a result of low energy wave action. Contains a number of halophytic species over a ground layer of grasses and herbs.

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	2	20%	MS
Small Shrub	2	5%	SS
Large Herb	2	5%	LH
Medium Herb	2	10%	MH
Small Herb	2	5%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	2	25%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
Total understorey projective foliage cover		70 %	

MS MS SS LH LH MH MH MH MH MH SH SH LTG	Species typical of at least part of EVC range Atriplex cinerea Rhagodia candolleana ssp. candolleana Frankenia pauciflora var. gunnii Senecio pinnatifolius Senecio glomeratus Sarcocornia quinqueflora ssp. quinqueflora Pseudognaphalium luteoalbum Actites megalocarpa Disphyma crassifolium ssp. clavellatum Dichelachne crinita Poa poiformis	Common Name Coast Saltbush Seaberry Saltbush Southern Sea-heath Variable Groundsel Annual Fireweed Beaded Glasswort Jersey Cudweed Coast Sow-thistle Rounded Noon-flower Kidneyweed Long-hair Plume Grass Coast Tussock-grass
LTG	Dichelachne crinita	Long-hair Plume Grass
MTG	Poa poiformis	Coast Tussock-grass
MTG	Austrofestuca littoralis	Coast Fescue
MNG	Distichlis distichophylla	Australian Salt-grass
MNG	Ficinia nodosa	Knobby Club-sedge

Recruitment:

Continuous

Organic Litter:

10% Cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Chrysanthemoides monilifera ssp. monilifera	Boneseed	high	high
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Conyza albida	Tall Fleabane	high	low
MH	Polycarpon tetraphyllum	Four-leaved Allseed	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
MH	Anagallis arvensis	Pimpernel	high	low
MNG	Vulpia myuros	Rat's-tail Fescue	high	low
MNG	Lagurus ovatus	Hare's-tail Grass	high	low





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EVC 647: Plains Sedgy Wetland

Description:

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

Life Forms:

Life form	#Spp	%Cover	LF code
Large Herb	2	5%	LH
Medium Herb	5	40%	MH
Small or Prostrate Herb	5	10%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	4	25%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG

LF Code		Species typical of at least part of EVC range	Common Name
LH		Epilobium billardierianum	Variable Willow-herb
MH		Potamogeton tricarinatus s.l.	Floating Pondweed
MH		Myriophyllum simulans	Amphibious Water-milfoil
MH		Stellaria angustifolia	Swamp Starwort
MH		Lilaeopsis polyantha	Australian Lilaeopsis
SH		Neopaxia australasica	White Purslane
SH		Lobelia pratioides	Poison Lobelia
SH	V	Helichrysum aff. rutidolepis (Lowland Swamps)	Pale Swamp Everlasting
SH		Eryngium vesiculosum	Prickfoot
LTG		Carex tereticaulis	Hollow Sedge
MTG	k	Lachnagrostis filiformis (perennial variety)	Wetland Blown-grass
MTG		Lachnagrostis filiformis	Common Blown-grass
MTG		Glyceria australis	Australian Sweet-grass
MNG		Eleocharis acuta	Common Spike-sedge
MNG	V	Amphibromus sinuatus	Wavy Swamp Wallaby-grass

Recruitment:

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

Organic Litter:

10% cover

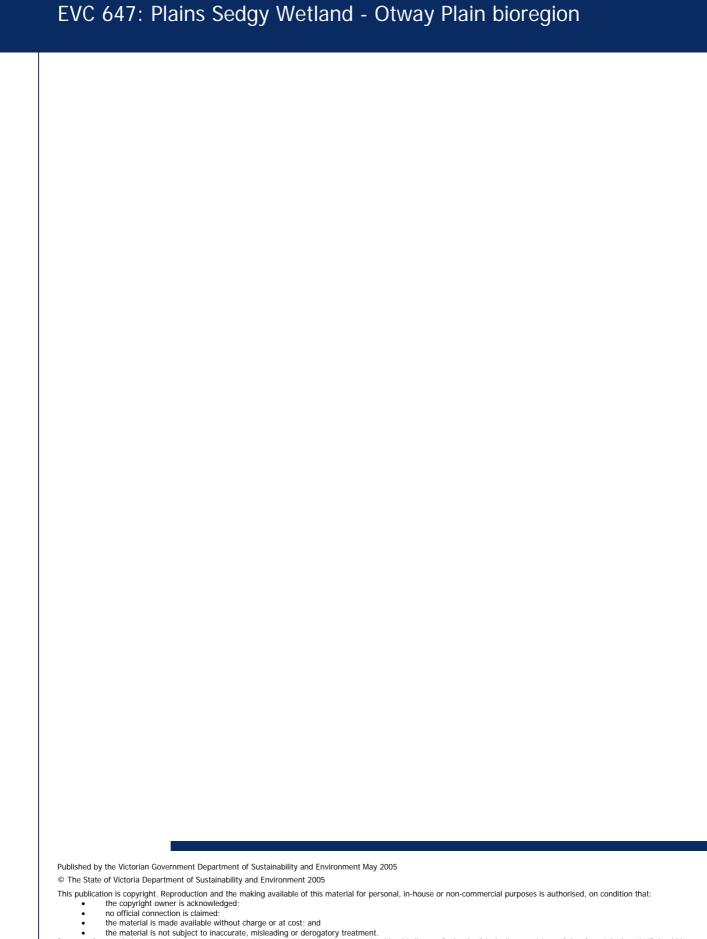
Logs

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

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MTG	Juncus bulbosus	Bulbous Rush	hiah	hiah





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Occurs on Quaternary sedimentary geology of mainly estuarine sands, soils are peaty, silty clays, and average annual rainfall is approximately 600 mm. Requires shallow water (to 1 m deep) and low current-scour, and can only tolerate very low levels of salinity. Closed to open grassland/sedgeland to 3 m tall, dominated by Common Reed and Cumbungi. Small aquatic and semi-aquatic species occur amongst the reeds, however they are generally not visible during inundation.

Life Forms:

Life form	#Spp	%Cover	LF code
Large Herb	3	10%	LH
Medium Herb	3	5%	MH
Small or Prostrate Herb	5	20%	SH
Large Tufted Graminoid	1	5%	LTG
Large Non-tufted Graminoid	2	40%	LNG
Medium to Tiny Non-tufted Graminoid	2	1%	MNG
Total understorey projective foliage cover		80%	

LF Code	Species typical of at least part of EVC range	Common Name
LH	Myriophyllum verrucosum	Red Water-milfoil
LH	Myriophyllum salsugineum	Lake Water-milfoil
LH	Villarsia reniformis	Running Marsh-flower
MH	Rumex bidens	Mud Dock
MH	Lilaeopsis polyantha	Australian Lilaeopsis
MH	Lepilaena bilocularis	Small-fruit Water-mat
SH	Crassula helmsii	Swamp Crassula
SH	Wolffia australiana	Tiny Duckweed
SH	Mimulus repens	Creeping Monkey-flower
SH	Lemna disperma	Common Duckweed
LTG	Triglochin procerum s.l.	Water Ribbons
LNG	Typha orientalis	Broad-leaf Cumbungi
LNG	Schoenoplectus tabernaemontani	River Club-sedge
LNG	Phragmites australis	Common Reed
MNG	Lepilaena cylindrocarpa	Long-fruit Water-mat
MNG	Eleocharis acuta	Common Spike-sedge

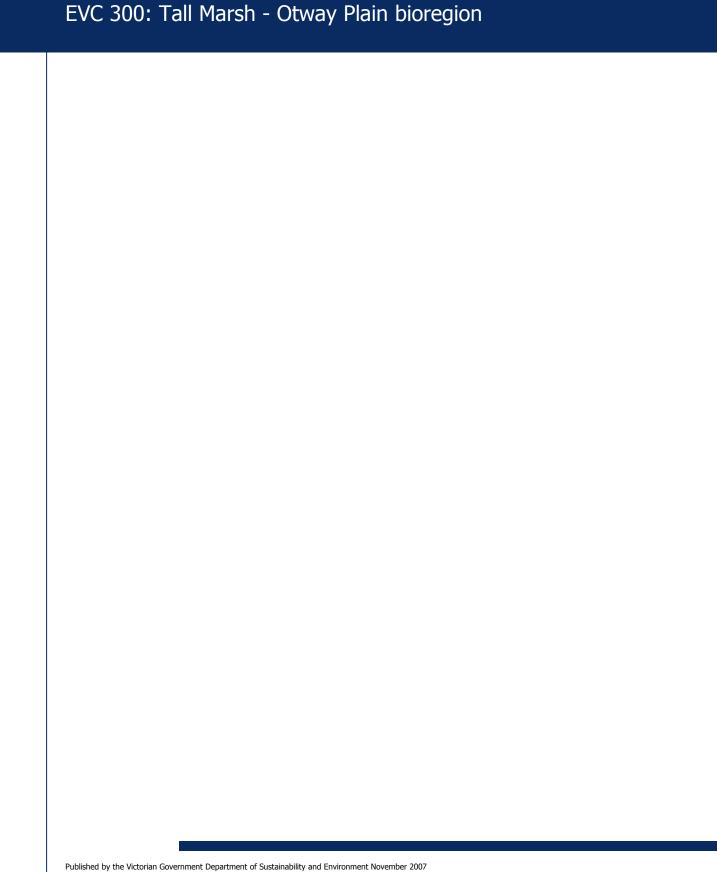
Recruitment:

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

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	Cotula coronopifolia	Water Buttons	high	high
MNG	Paspalum distichum	Water Couch	high	high





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EVC 851: Stream Bank Shrubland

Description:

Rivers and major streams where the watercourse consists of either rocky banks, a flat rocky stream bed or broad gravel banks which are often dry but are also regularly flooded by fast flowing waters. There is a sparse overstorey of trees to 15 m tall, a dominant tall shrub layer and a ground layer of sedges and herbs.

Large trees:

 Species
 DBH(cm)
 #/ha

 Eucalyptus spp.
 70 cm
 10 / ha

Tree Canopy Cover:

%coverCharacter SpeciesCommon Name10%Eucalyptus camaldulensisRiver Red-gum

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	4	20%	MS
Large Herb	3	5%	LH
Medium Herb	12	25%	MH
Small or Prostrate Herb	4	10%	SH
Large Tufted Graminoid	3	10%	LTG
Large Non-tufted Graminoid	3	10%	LNG
Medium to Small Tufted Graminoid	12	20%	MTG
Medium to Tiny Non-tufted Graminoid	5	10%	MNG
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL

LTG Poa labillardierei Common Tus LTG Lomandra longifolia Spiny-headed LNG Phragmites australis Common Ree LNG Schoenoplectus tabernaemontani River Club-se MTG Triglochin procerum s.l. Water Ribbon MNG Microlaena stipoides var. stipoides Weeping Gras	l Mat-rush d dge is ss
	ss sedge



EVC 851: Stream Bank Shrubland - Otway Plain bioregion

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

10 m/0.1 ha.

Weediness:

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

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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* 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.

Tree Canopy Cover:

%cover	Character Species	Common Name
30%	Melaleuca lanceolata ssp. lanceolata	Moonah
	Allocasuarina verticillata	Drooping Sheoak
	Leptospermum laevigatum	Coast Tea-tree
	Bursaria spinosa ssp. spinosa	Sweet Bursaria

Understorey:

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

MS MS MS MS SS PS MH MH MH SH SH LTG MTG MTG MTG MTG MTG MTG MTG MTG MTG M	Species typical of at least part of EVC range Acacia longifolia ssp. sophorae Leucopogon parviflorus Acacia retinodes var. uncifolia Hibbertia sericea s.l. Acrotriche prostrata Lagenophora stipitata Geranium potentilloides Acaena novae-zelandiae Dichondra repens Oxalis exilis Lomandra longifolia Dianella revoluta s.l. Carex breviculmis Elymus scaber var. scaber Austrodanthonia setacea Ficinia nodosa Clematis microphylla	Common Name Coast Wattle Coast Beard-heath Coast Wirilda Silky Guinea-flower Trailing Ground-berry Common Bottle-daisy Cinquefoil Cranesbill Bidgee-widgee Kidney-weed Shady Wood-sorrel Spiny-headed Mat-rush Black-anther Flax-lily Common Grass-sedge Common Wheat-grass Bristly Wallaby-grass Knobby Club-sedge Small-leaved Clematis
SC	Clematis microphylla	Small-leaved Clematis
SC	Comesperma volubile	Love Creeper



EVC 858: Coastal Alkaline Scrub (syn. Calcarenite Dune Woodland) -Otway Plain bioregion

Recruitment:

Continuous

Organic Litter:

40 % cover

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

Weediness:

Typical Weed Species	Common Name	Invasive	Impact
Rhamnus alaternus	Italian Buckthorn	low	high
Chrysanthemoides monilifera	Boneseed	high	high
Holcus lanatus	Yorkshire Fog	high	high
Catapodium rigidum	Fern Grass	high	low
Lagurus ovatus	Hare's-tail Grass	high	low
<i>Vulpia</i> spp.	Fescue	high	low
	Chrysanthemoides monilifera Holcus lanatus Catapodium rigidum Lagurus ovatus	Rhamnus alaternus Italian Buckthorn Chrysanthemoides monilifera Boneseed Holcus lanatus Yorkshire Fog Catapodium rigidum Fern Grass Lagurus ovatus Hare's-tail Grass	Rhamnus alaternusItalian BuckthornlowChrysanthemoides moniliferaBoneseedhighHolcus lanatusYorkshire FoghighCatapodium rigidumFern GrasshighLagurus ovatusHare's-tail Grasshigh

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EVC 863: Floodplain Reedbed

Description:

A closed to open grassland to 2–3 m tall, dominated by Common Reed. Small aquatic and semi-aquatic species occur amongst the reeds. It occurs on swamps on river plains, especially the lower reaches of the floodplain. Soils are Quaternary stream alluvium with floodplain and low level terrace deposits consisting of silt, clay and peat. Swamp Paperbark frequently fringes the margins of these reed beds.

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	1	5%	MS
Large Herb	2	10%	LH
Medium Herb	2	5%	MH
Small or Prostrate Herb	2	5%	SH
Medium to Small Tufted Graminoid	1	5%	MTG
Large Non-tufted Graminoid	2	30%	LNG
Scrambler or Climber	1	1%	SC
Total understorey projective foliage cover		60%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	Solanum aviculare	Kangaroo Apple
MH	Myriophyllum crispatum	Upright Water-milfoil
LH	Lycopus australis	Australian Gipsywort
LH	Urtica incisa	Scrub Nettle
SH	Mimulus repens	Creeping Monkey-flower
LNG	Phragmites australis	Common Reed
MTG	Triglochin procerum s.l.	Water Ribbons
SC	Calystegia sepium	Large Bindweed

Recruitment:

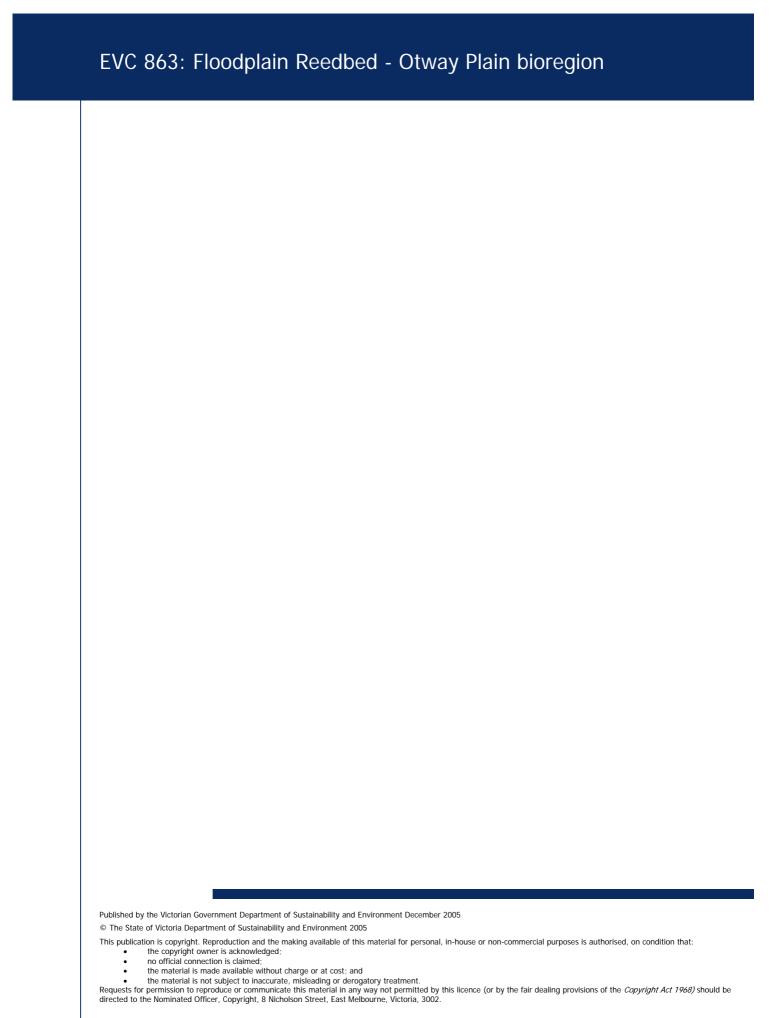
Episodic/Flood. Desirable period between disturbances is 5 years.

Organic Litter:

10% cover

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





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For more information contact: Customer Service Centre, 136 186

Description:

Consists of grasses and halophytes (succulents) that colonise the foredunes of ocean beaches. Soils are siliceous sands that have a very low humus content.

Understorey:

Lifeform	#Spp	%Cover	LF Code
Medium Shrub	1	5%	MS
Small Shrub	1	5%	SS
Large Herb	2	5%	LH
Medium Herb	4	5%	MH
Small or Prostrate Herb	3	10%	SH
Medium to Small Tufted Graminoid	3	10%	MTG
Medium to Tiny Non-Tufted Graminoid	2	25%	MNG
Scrambler or Climber	1	1%	SC

LF Code	Species typical of at least part of EVC range	Common Name
MS	Atriplex cinerea	Coast Saltbush
SS	Suaeda australis	Austral Seablite
LH	Senecio pinnatifolius	Variable Groundsel
MH	Acaena novae-zelandiae	Bidgee-widgee
MH	Actites megalocarpa	Dune Thistle
MH	Apium annuum	Annual Celery
SH	Carpobrotus rossii	Karkalla
SH	Crassula sieberiana s.l.	Sieber Crassula
MTG	Dianella brevicaulis	Small-flower Flax-lily
MNG	Ficinia nodosa	Knobby Club-sedge
MNG	Spinifex sericeus	Hairy Spinifex
SC	Clematis microphylla	Small-leaved Clematis

Recruitment:

Continuous.

Organic Litter:

10 % cover

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MNG	Thinopyrum junceiforme	Sea Wheat-grass	high	high



EVC 879: Coastal Dune Grassland

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
SC	Asparagus asparagoides	Bridal Creeper	high	high
LH	Sonchus oleraceus	Common Sow-thistle	high	high
MH	Leontodon taraxacoides subsp. taraxacoides	Hairy Hawkbit	high	low
LNG	Ammophila arenaria	Marram Grass	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low

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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.

EVC 891: Plains Brackish Sedge Wetland (syn. with EVC 656: Brackish Wetland)

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%	

lotal understore	∍у	projective	foliage cover
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LF Code	Species typical of at least part of EVC range	Common Name
LH	Persicaria decipiens	Slender Knotweed
LH	Epilobium billardierianum ssp. billardierianum	Smooth Willow-herb
MH	Sarcocornia quinqueflora	Beaded Glasswort
MH	Samolus repens	Creeping Brookweed
MH	Suaeda australis	Austral Seablite
SH	Selliera radicans	Shiny Swamp-mat
SH	Crassula helmsii	Swamp Crassula
SH	Mimulus repens	Creeping Monkey-flower
LTG	Gahnia filum	Chaffy Saw-sedge
LNG	Juncus kraussii ssp. australiensis	Sea Rush
LNG	Phragmites australis	Common Reed
MTG	Poa poiformis	Coast Tussock-grass
MTG	Lachnagrostis filiformis	Common Blown-grass
MNG	Bolboschoenus caldwellii	Salt Club-sedge
MNG	Distichlis distichophylla	Australian Salt-grass
MNG	Schoenoplectus pungens	Sharp Club-sedge
MNG	Triglochin striatum	Streaked Arrowgrass
SC	Calystegia sepium	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 891: Plains Brackish Sedge Wetland (syn. with EVC 656: Brackish Wetland) - Otway Plain bioregion

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EVC 898: Cane Grass-Lignum Halophytic Herbland

Description:

Occurs within shallow depressions on otherwise flat terrain, where annual rainfall is approximately 600 mm. Geology is Quaternary sedimentary estuarine sands, and soils are silty clays, subject to periodic freshwater flooding. Varies from an open shrubland to grassland/sedgeland or herbland depending on site characteristics.

Life Forms:

#Spp	%Cover	LF code
1	10%	MS
4	5%	MH
5	20%	SH
1	10%	LNG
3	20%	MNG
na	10 %	S/C
	70 %	
	1 4 5 1 3	1 10% 4 5% 5 20% 1 10% 3 20% na 10%

LF Code	Species typical of at least part of EVC range	Common Name
MS	Muehlenbeckia florulenta	Tangled Lignum
MH	Rumex bidens	Mud Dock
MH	Sarcocornia quinqueflora	Beaded Glasswort
MH	Stellaria angustifolia	Swamp Starwort
SH	Crassula helmsii	Swamp Crassula
SH	Mimulus repens	Creeping Monkey-flower
SH	Selliera radicans	Shiny Swamp-mat
SH	Neopaxia australasica	White Purslane
LNG	Eragrostis australasica	Cane-grass
MNG	Eleocharis acuta	Common Spike-sedge
MNG	Distichlis distichophylla	Australian Salt-grass

Recruitment:

Continuous

Organic Litter:

10 % cover

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Rumex conglomeratus	Clustered Dock	high	high
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Rumex crispus	Curled Dock	high	high
MH	Cotula coronopifolia	Water Buttons	high	high
MH	Atriplex prostrata	Hastate Orache	high	high
MTG	Polypogon monspeliensis	Annual Beard-grass	high	low
MNG	Paspalum distichum	Water Couch	high	high



EVC 898: Cane Grass-Lignum Halophytic Herbland -Otway Plain bioregion

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EVC 899: Plains Freshwater Sedge Wetland

Description:

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

Life Forms:

Life form	#Spp	%Cover	LF code
Large Herb	2	5%	LH
Medium Herb	5	40%	MH
Small or Prostrate Herb	5	10%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	4	25%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG

LF Code		Species typical of at least part of EVC range	Common Name
LH		Epilobium billardierianum	Variable Willow-herb
MH		Potamogeton tricarinatus s.l.	Floating Pondweed
MH		Myriophyllum simulans	Amphibious Water-milfoil
MH		Crassula helmsii	Swamp Crassula
MH		Lilaeopsis polyantha	Australian Lilaeopsis
SH		Neopaxia australasica	White Purslane
SH		Lobelia pratioides	Poison Lobelia
SH	V	Helichrysum aff. rutidolepis (Lowland Swamps)	Pale Swamp Everlasting
SH		Eryngium vesiculosum	Prickfoot
LTG		Carex tereticaulis	Hollow Sedge
LTG		Triglochin procerum s.l.	Water Ribbons
MTG	k	Lachnagrostis filiformis (perennial variety)	Wetland Blown-grass
MTG		Lachnagrostis filiformis	Common Blown-grass
MTG		Glyceria australis	Australian Sweet-grass
MNG		Eleocharis acuta	Common Spike-sedge
MNG	V	Amphibromus sinuatus	Wavy Swamp Wallaby-grass

Recruitment:

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

Organic Litter:

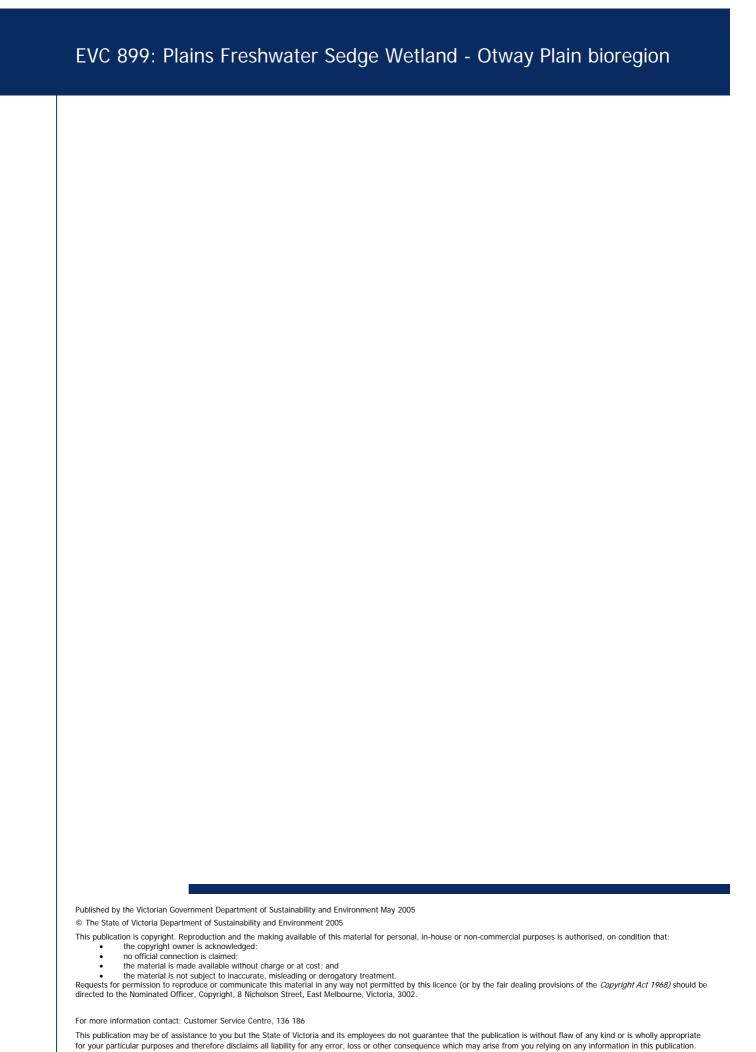
10% cover

Logs:

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

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Rumex crispus	Curled Dock	high	high
MTG	Juncus bulbosus	Bulbous Rush	high	high





www.dse.vic.gov.au



Description:

Estuarine Reedbed occurs in areas that are semi-permanently inundated by moderately saline water, on anaerobic silts and clays. It is strongly dominated by Common Reed, often with very few, if any, other species. Where present, these include a range of salt-tolerant herbs, sedges and rushes. Estuarine Reedbed commonly borders estuarine wetland, which is dominated by Sea Rush.

Understorey:

Lifeform	#Spp	%Cover	LF Code
Medium Herb	2	5%	MH
Small or Prostrate Herb	1	5%	SH
Large Non-Tufted Graminoid	1	50%	LNG

LF Code Species typical of at least part of EVC range		Common Name	
MH	Samolus repens	Creeping Brookweed	
MH	Sarcocornia quinqueflora	Beaded Glasswort	
SH	Apium prostratum subsp. prostratum	Sea Celery	
LNG	Bolboschoenus caldwellii	Salt Club-sedge	
LNG	Phragmites australis	Common Reed	

Recruitment:

Continuous

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	Chenopodium album	Fat Hen	low	low
LH	Aster subulatus	Aster-weed	low	low
MH	Atriplex prostrata	Hastate Orache	low	low

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Description:

Closed scrub to 6 m tall growing on the edge of estuarine waterbodies such as creeks, rivers and lagoons with intermediate salinity and poor drainage conditions. Dominated by Woolly Tea-tree *Leptospermum lanigerum* with a halophytic (succulent) ground layer dominated by graminoids and herbs. Often occurs in close association with Estuarine Wetland.

Canopy Cover:

%cover	Character Species	Common Name
50%	Leptospermum lanigerum	Woolly Tea-tree

Understorey:

Life form	#Spp	%Cover	LF code
Medium Shrub	2	10%	MS
Medium Herb	3	20%	MH
Small or Prostrate Herb	2	5%	SH
Medium to Small Tufted Graminoid	2	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	15%	MNG
Total understorey projective foliage cover		60%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	Rhagodia candolleana ssp. candolleana	Seaberry Saltbush
MS	Atriplex cinerea	Coast Saltbush
MH	Samolus repens	Creeping Brookweed
MH	Chenopodium glaucum	Glaucous Goosefoot
MH	Sarcocornia quinqueflora	Beaded Glasswort
SH	Selliera radicans	Shiny Swamp-mat
SH	Apium prostratum ssp. prostratum	Sea Celery
MTG	Poa poiformis	Blue Tussock-grass
MTG	Poa labillardierei	Common Tussock-grass
MNG	Ficinia nodosa	Knobby Club-sedge
MNG	Distichlis distichophylla	Australian Salt-grass

Recruitment:

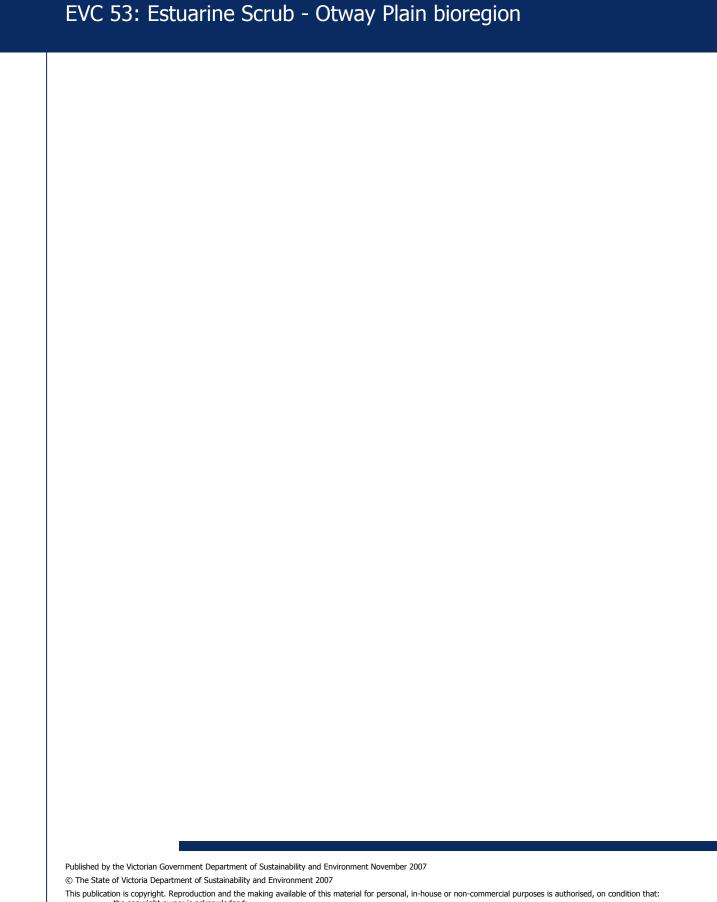
Continuous

Organic Litter:

20 % cover

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





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