

# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### EVC 3: Damp Sands Herb-rich Woodland

#### Description:

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

#### Large trees:

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

#### Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus obliqua</i>	Messmate Stringybark
	<i>Eucalyptus globulus</i>	Southern Blue-gum
	<i>Eucalyptus ovata</i>	Swamp Gum

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	9	30%	MS
Prostrate Shrub	1	1%	PS
Large Herb	3	5%	LH
Medium Herb	6	15%	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	1	1%	MNG
Ground Fern	2	5%	GF
Scrambler or Climber	1	5%	SC
Bryophytes/Lichens	na	10%	BL

# EVC 3: Damp Sands Herb-rich Woodland - Otway Ranges bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Olearia argophylla</i>	Musk Daisy-bush
MS	<i>Goodenia ovata</i>	Hop Goodenia
MS	<i>Pultenaea daphnoides</i>	Large-leaf Bush-pea
MS	<i>Acacia verticillata</i>	Prickly Moses
MS	<i>Ozothamnus ferrugineus</i>	Tree Everlasting
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Senecio odoratus</i> var. <i>odoratus</i>	Scented Groundsel
LH	<i>Epilobium billardierianum</i>	Variable Willow-herb
LH	<i>Chrysocephalum semipapposum</i>	Clustered Everlasting
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
SH	<i>Oxalis corniculata</i> s.l.	Yellow Wood-sorrel
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Hydrocotyle sibthorpioides</i>	Shining Pennywort
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Lepidosperma elatius</i>	Tall Sword-sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Stylidium graminifolium</i> s.l.	Grass Trigger-plant
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Adiantum aethiopicum</i>	Common Maidenhair
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
SC	<i>Cassytha melantha</i>	Coarse Dodder-laurel
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Billardiera scandens</i>	Common Apple-berry

## Recruitment:

Continuous

## Organic Litter:

40 % cover

## Logs:

15 m/0.1 ha.

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
MH	<i>Hypochaeris radicata</i>	Cat's Ear	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### EVC 8: Wet Heathland

#### Description:

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

#### Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	5	55%	MS
Small Shrub	3	5%	SS
Large Herb	1	1%	LH
Medium Herb	2	20%	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	10%	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	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Melaleuca squarrosa</i>	Scented Paperbark
MS	<i>Sprengelia incarnata</i>	Pink Swamp-heath
MS	<i>Epacris impressa</i>	Common Heath
SS	<i>Epacris lanuginosa</i>	Woolly-style Heath
SS	<i>Bauera rubioides</i>	Wiry Bauera
SS	<i>Tetratheca ciliata</i>	Pink-bells
MH	<i>Selaginella uliginosa</i>	Swamp Selaginella
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
MNG	<i>Empodisma minus</i>	Spreading Rope-rush
GF	<i>Lindsaea linearis</i>	Screw Fern
SC	<i>Cassytha glabella</i>	Slender Dodder-laurel

#### Recruitment:

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

#### Organic Litter:

20% cover

#### Weediness:

There are no consistent weeds in this EVC.

## EVC 8: Wet Heathland - Otway Ranges bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### 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
<b>Total understorey projective foliage cover</b>		<b>90%</b>	

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

#### Recruitment:

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

#### Organic Litter:

10% cover

#### Weediness:

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

# EVC 10: Estuarine Wetland - Otway Ranges bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### 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
<i>Eucalyptus</i> spp.	70 cm	20 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus baxteri</i> s.l.	Brown Stringybark
	<i>Eucalyptus obliqua</i>	Messmate Stringybark

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	10%	T
Medium Shrub	8	45%	MS
Small Shrub	3	5%	SS
Prostrate Shrub	1	1%	PS
Medium Herb	3	5%	MH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	15%	LNG
Medium to Small Tufted Graminoid	1	1%	MTG
Medium to Tiny Non-tufted Graminoid	1	5%	MNG
Ground Fern	2	10%	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	<i>Notelaea ligustrina</i>	Privet Mock-olive
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Goodenia ovata</i>	Hop Goodenia
MS	<i>Pultenaea daphnoides</i>	Large-leaf Bush-pea
SS	<i>Amperea xiphoclada</i> var. <i>xiphoclada</i>	Broom Spurge
SS	<i>Bauera rubioides</i>	Wiry Bauera
SS	<i>Tetralix ciliata</i>	Pink-bells
SS	<i>Olearia erubescens</i>	Moth Daisy-bush
MH	<i>Viola hederacea</i> sensu <i>Willis (1972)</i>	Ivy-leaf Violet
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Drosera peltata</i> ssp. <i>peltata</i>	Pale Sundew
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Lepidosperma elatius</i>	Tall Sword-sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MNG	<i>Empodisma minus</i>	Spreading Rope-rush
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Lindsaea linearis</i>	Screw Fern
SC	<i>Cassytha pubescens</i> s.s.	Downy Dodder-laurel
SC	<i>Billardiera scandens</i>	Common Apple-berry

# EVC 16: Lowland Forest - Otway Ranges 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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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### EVC 18: Riparian Forest

#### Description:

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

#### Large trees:

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

#### Tree Canopy Cover:

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

#### Understorey:

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

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Olearia argophylla</i>	Musk Daisy-bush
T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Pomaderris aspera</i>	Hazel Pomaderris
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Hedycarya angustifolia</i>	Austral Mulberry
MS	<i>Pimelea axiflora</i>	Bootlace Bush
LH	<i>Urtica incisa</i>	Scrub Nettle
MH	<i>Australina pusilla</i> ssp. <i>muelleri</i>	Shade Nettle
MH	<i>Sambucus gaudichaudiana</i>	White Elderberry
MH	<i>Stellaria flaccida</i>	Forest Starwort
LTG	<i>Carex appressa</i>	Tall Sedge
LTG	<i>Lepidosperma elatius</i>	Tall Sword-sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Asplenium bulbiferum</i> ssp. <i>gracillimum</i>	Mother Spleenwort
GF	<i>Histiopteris incisa</i>	Bat's Wing Fern
GF	<i>Grammitis billardierei</i>	Common Finger-fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
TRF	<i>Cyathea australis</i>	Rough Tree-fern
EP	<i>Microsorium pustulatum</i> ssp. <i>pustulatum</i>	Kangaroo Fern
EP	<i>Rumohra adiantiformis</i>	Leathery Shield-fern
EP	<i>Hymenophyllum cupressiforme</i>	Common Filmy Fern
SC	<i>Clematis aristata</i>	Mountain Clematis

# EVC 18: Riparian Forest - Otway Ranges bioregion

**Recruitment:**

Continuous

**Organic Litter:**

50 % cover

**Logs:**

30 m/0.1 ha.

**Weediness:**

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

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### EVC 21: Shrubby Dry Forest

#### Description:

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

#### Large trees:

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

#### Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus obliqua</i>	Messmate Stringybark
	<i>Eucalyptus globulus</i>	Southern Blue-gum
	<i>Eucalyptus aromaphloia</i>	Scentbark

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	7	40%	MS
Small Shrub	2	5%	SS
Medium Herb	5	10%	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	5	15%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Bryophytes/Lichens	na	10%	BL
<b>Total understorey projective foliage cover</b>		<b>80%</b>	

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Pultenaea daphnoides</i>	Large-leaf Bush-pea
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Acacia mucronata</i> ssp. <i>longifolia</i>	Narrow-leaf Wattle
MS	<i>Acacia verticillata</i>	Prickly Moses
SS	k <i>Olearia speciosa</i>	Netted Daisy-bush
SS	<i>Pimelea humilis</i>	Common Rice-flower
PS	<i>Acrotriche serrulata</i>	Honey-pots
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Viola hederacea</i> sensu <i>Willis (1972)</i>	Ivy-leaf Violet
MH	<i>Drosera peltata</i> ssp. <i>auriculata</i>	Tall Sundew
MH	<i>Helichrysum scorpioides</i>	Button Everlasting
SH	<i>Goodenia lanata</i>	Trailing Goodenia
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Joycea pallida</i>	Silvertop Wallaby-grass
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Lomandra multiflora</i> ssp. <i>multiflora</i>	Many-flowered Mat-rush
MNG	<i>Tetrarrhena distichophylla</i>	Hairy Rice-grass

# EVC 21: Shrubby Dry Forest - Otway Ranges bioregion

**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/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### EVC 22: Grassy Dry Forest

#### Description:

Occurs on a variety of gradients and altitudes and on a range of geologies. The overstorey is dominated by a low to medium height forest of eucalypts to 20 m tall, sometimes resembling an open woodland. The understorey usually consists of a sparse shrub layer of medium height and a ground layer dominated by a high diversity of drought-tolerant grasses and herbs.

#### Large trees:

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

#### Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus globulus</i> ssp. <i>globulus</i>	Southern Blue-gum

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	5	5%	MS
Prostrate Shrub	2	5%	PS
Large Herb	2	5%	LH
Medium Herb	4	5%	MH
Large Tufted Graminoid	2	10%	LTG
Medium to Small Tufted Graminoid	9	30%	MTG
Medium to Tiny Non-tufted Graminoid	1	5%	MNG
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
<b>Total understorey projective foliage cover</b>		<b>80%</b>	

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia mearnsii</i>	Black Wattle
MS	<i>Acacia verticillata</i>	Prickly Moses
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Indigofera australis</i>	Austral Indigo
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Senecio glomeratus</i>	Annual Fireweed
LH	<i>Wahlenbergia gracilis</i> s.l.	Sprawling Bluebell
MH	<i>Acaena ovina</i>	Australian Sheep's Burr
MH	<i>Hypericum gramineum</i>	Small St John's Wort
MH	<i>Plantago varia</i>	Variable Plantain
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
LTG	<i>Austrostipa rudis</i>	Veined Spear-grass
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
MTG	<i>Austroanthonia pilosa</i>	Velvet Wallaby-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Dianella revoluta</i> s.s.	Black-anther Flax-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
SC	<i>Billardiera scandens</i>	Common Apple-berry



## EVC 22: Grassy Dry Forest - Otway Ranges bioregion

**Recruitment:**

Continuous

**Organic Litter:**

20 % cover

**Logs:**

20 m/0.1 ha.

**Weediness:**

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Chrysanthemoides monilifera</i>	Boneseed	high	high
LH	<i>Centaureum tenuiflorum</i>	Slender Centaury	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### EVC 23: Herb-rich Foothill Forest

#### Description:

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

#### Large trees:

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

#### Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus obliqua</i>	Messmate Stringybark
	<i>Eucalyptus cypellocarpa</i>	Mountain Grey-gum
	<i>Eucalyptus globulus</i>	Southern Blue-gum
	<i>Eucalyptus radiata</i> s.l.	Narrow-leaf Peppermint

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	7	30%	MS
Large Herb	3	5%	LH
Medium Herb	7	20%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	1	10%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	2	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	2	10%	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
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Ozothamnus ferrugineus</i>	Tree Everlasting
MS	<i>Acacia verticillata</i>	Prickly Moses
MS	<i>Olearia lirata</i>	Snowy Daisy-bush
MS	<i>Goodenia ovata</i>	Hop Goodenia
SS	k <i>Olearia speciosa</i>	Netted Daisy-bush
LH	<i>Wahlenbergia gracilis</i> s.l.	Sprawling Bluebell
LH	<i>Senecio pinnatifolius</i>	Variable Groundsel
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Geranium solanderi</i> s.l.	Austral Cranesbill
MH	<i>Stellaria pungens</i>	Prickly Starwort
SH	<i>Oxalis corniculata</i> s.l.	Yellow Wood-sorrel
SH	<i>Lobelia pedunculata</i> s.l.	Matted Pratia
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Dichelachne sciurea</i> spp. agg.	Short-hair Plume-grass
MNG	<i>Poa tenera</i>	Slender Tussock-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Clematis aristata</i>	Mountain Clematis

# EVC 23: Herb-rich Foothill Forest - Otway Ranges bioregion

**Recruitment:**

Continuous

**Organic Litter:**

40 % cover

**Logs:**

20 m/0.1 ha.

**Weediness:**

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Rubus fruticosus</i> spp. agg.	Blackberry	high	high
LH	<i>Hypericum androsaemum</i>	Tutsan	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### EVC 30: Wet Forest

#### Description:

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

#### Large trees:

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

#### Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus regnans</i>	Mountain Ash

#### Understorey:

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

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Pomaderris aspera</i>	Hazel Pomaderris
T	<i>Olearia argophylla</i>	Musk Daisy-bush
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Pimelea axiflora</i>	Bootlace Bush
MS	<i>Hedycarya angustifolia</i>	Austral Mulberry
MH	<i>Stellaria flaccida</i>	Forest Starwort
LTG	<i>Lepidosperma elatius</i>	Tall Sword-sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Blechnum watsii</i>	Hard Water-fern
GF	<i>Grammitis billardierei</i>	Common Finger-fern
GF	<i>Ctenopteris heterophylla</i>	Gipsy Fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
TRF	<i>Cyathea australis</i>	Rough Tree-fern
EP	<i>Microsorium pustulatum ssp. pustulatum</i>	Kangaroo Fern
EP	<i>Hymenophyllum cupressiforme</i>	Common Filmy Fern
EP	<i>Rumohra adiantiformis</i>	Leathery Shield-fern
SC	<i>Clematis aristata</i>	Mountain Clematis

# EVC 30: Wet Forest - Otway Ranges bioregion

**Recruitment:**

Continuous.

**Organic Litter:**

50 % cover

**Logs:**

30 m/0.1 ha.

**Weediness:**

There are no consistent weeds in this EVC.

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### EVC 31: Cool Temperate Rainforest

#### Description:

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

#### Large trees:

Species	DBH(cm)	#/ha
<i>Nothofagus cunninghamii</i>	70 cm	20 / ha
<i>Acacia melanoxylon</i>		

#### Tree Canopy Cover:

%cover	Character Species	Common Name
50%	<i>Nothofagus cunninghamii</i>	Myrtle Beech
	<i>Acacia melanoxylon</i>	Blackwood

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	20%	T
Medium Shrub	3	10%	MS
Medium Herb	2	1%	MH
Ground Fern	7	40%	GF
Tree Fern	2	30%	TRF
Epiphyte	6	5%	EP
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	20%	BL

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Olearia argophylla</i>	Musk Daisy-bush
T	<i>Pittosporum bicolor</i>	Banyalla
MS	<i>Hedycarya angustifolia</i>	Austral Mulberry
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
LH	<i>Urtica incisa</i>	Scrub Nettle
MH	<i>Australina pusilla ssp. muelleri</i>	Shade Nettle
LTG	<i>Carex appressa</i>	Tall Sedge
MNG	<i>Uncinia tenella</i>	Delicate Hook-sedge
GF	<i>Blechnum wattsii</i>	Hard Water-fern
GF	<i>Grammitis billardieri</i>	Common Finger-fern
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Asplenium bulbiferum ssp. gracillimum</i>	Mother Spleenwort
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
TRF	<i>Cyathea australis</i>	Rough Tree-fern
EP	<i>Microsorium pustulatum ssp. pustulatum</i>	Kangaroo Fern
EP	<i>Rumohra adiantiformis</i>	Leathery Shield-fern
EP	<i>Hymenophyllum australe</i>	Austral Filmy Fern
EP	<i>Crepidomanes venosum</i>	Veined Bristle-fern
SC	<i>Clematis aristata</i>	Mountain Clematis

# EVC 31: Cool Temperate Rainforest - Otway Ranges bioregion

**Recruitment:**

Continuous

**Organic Litter:**

50 % cover

**Logs:**

20 m/0.1 ha.

**Weediness:**

There are no consistent weeds in this EVC.

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### EVC 45: Shrubby Foothill Forest

#### Description:

Occurs on ridges and exposed aspects 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 stratum 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
<i>Eucalyptus</i> spp.	70 cm	20 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus obliqua</i>	Messmate Stringybark
	<i>Eucalyptus cypellocarpa</i>	Mountain Grey-gum

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	7	40%	MS
Small Shrub	2	10%	SS
Medium Herb	4	5%	MH
Large Tufted Graminoid	1	5%	LTG
Large Non-tufted Graminoid	1	10%	LNG
Medium to Small Tufted Graminoid	3	5%	MTG
Ground Fern	1	5%	GF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL
<b>Total understorey projective foliage cover</b>		<b>75%</b>	

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Goodenia ovata</i>	Hop Goodenia
MS	<i>Olearia lirata</i>	Snowy Daisy-bush
MS	<i>Acacia verticillata</i>	Prickly Moses
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Geranium potentilloides</i>	Cinquefoil Cranesbill
LTG	<i>Lepidosperma elatius</i>	Tall Sword-sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Osteocarpum acropterum</i> var. <i>deminutum</i>	Spiny-headed Mat-rush
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Billardiera scandens</i>	Common Apple-berry

#### Recruitment:

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

#### Organic Litter:

40 % cover

#### Logs:

20 m/0.1 ha.

#### Weediness:

There are no consistent weeds in this EVC.

# EVC 45: Shrubby Foothill Forest - Otway Ranges bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### EVC 48: Heathy Woodland

#### Description:

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

#### Large trees:

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

#### Tree Canopy Cover:

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

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	10	40%	MS
Small Shrub	6	15%	SS
Prostrate Shrub	2	5%	PS
Medium Herb	4	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	3	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	1	1%	GF
Scrambler or Climber	2	1%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C



# EVC 48: Heathy Woodland - Otway Ranges bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Persoonia juniperina</i>	Prickly Geebung
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
SS	<i>Tetratheca ciliata</i>	Pink-bells
SS	<i>Amperea xiphoclada</i> var. <i>xiphoclada</i>	Broom Spurge
SS	<i>Dillwynia glaberrima</i>	Smooth Parrot-pea
SS	<i>Isopogon ceratophyllus</i>	Horny Cone-bush
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Xanthosia pusilla</i> spp. agg.	Heath Xanthosia
PS	<i>Xanthosia dissecta</i> s.l.	Cut-leaf Xanthosia
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Drosera peltata</i> ssp. <i>peltata</i>	Pale Sundew
SH	<i>Goodenia lanata</i>	Trailing Goodenia
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Stylidium graminifolium</i> s.l.	Grass Trigger-plant
MTG	<i>Patersonia fragilis</i>	Short Purple-flag
MNG	<i>Tetrarrhena distichophylla</i>	Hairy Rice-grass
MNG	<i>Empodisma minus</i>	Spreading Rope-rush
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Cassytha pubescens</i> s.s.	Downy Dodder-laurel
SC	<i>Cassytha glabella</i>	Slender Dodder-laurel

## Recruitment:

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

## Organic Litter:

40 % cover

## Logs:

15 m/0.1 ha.

## Weediness:

There are no consistent weeds in this EVC.

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### EVC 53: Swamp Scrub

#### Description:

Closed scrub to 8 m tall at low elevations on alluvial deposits along streams or on poorly drained sites with high nutrient and water availability. Soils vary from organic loams to fine silts and peats which are inundated during the wetter months of the year and is dominated by Woolly Tea-tree *Leptospermum lanigerum* which often form a dense impenetrable thicket, out-competing other species. Emergent trees (eg. Swamp Gum *Eucalyptus ovata*) may sometimes 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%	<i>Leptospermum lanigerum</i>	Woolly Tea-tree
	<i>Melaleuca squarrosa</i>	Scented Paperbark
	<i>Acacia melanoxylon</i>	Blackwood

#### Understorey:

Life form	#Spp	%Cover	LF code
Medium Shrub	2	10%	MS
Large Herb	3	10%	LH
Medium Herb	7	20%	MH
Small or Prostrate Herb	1	5%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	3	15%	LNG
Medium to Small Tufted Graminoid	3	10%	MTG
Medium to Tiny Non-tufted Graminoid	1	5%	MNG
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	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
LH	<i>Lycopus australis</i>	Australian Gipsywort
LH	<i>Lythrum salicaria</i>	Purple Loosestrife
LH	<i>Persicaria praetermissa</i>	Spotted Knotweed
MH	<i>Hydrocotyle pterocarpa</i>	Wing Pennywort
MH	<i>Stellaria angustifolia</i>	Swamp Starwort
MH	<i>Lobelia anceps</i>	Angled Lobelia
SH	<i>Crassula helmsii</i>	Swamp Crassula
LTG	<i>Juncus procerus</i>	Tall Rush
LTG	<i>Juncus gregiflorus</i>	Green Rush
LNG	<i>Phragmites australis</i>	Common Reed
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
LNG	<i>Schoenoplectus tabernaemontani</i>	River Club-sedge
LNG	<i>Baumea rubiginosa</i> s.l.	Soft Twig-rush
MTG	<i>Triglochin procerum</i> s.l.	Water Ribbons
MNG	<i>Eleocharis acuta</i>	Common Spike-sedge
GF	<i>Blechnum cartilagineum</i>	Gristle Fern
SC	<i>Calystegia sepium</i>	Large Bindweed

# EVC 53: Swamp Scrub - Otway Ranges bioregion

**Recruitment:**

Continuous

**Organic Litter:**

40 % cover

**Weediness:****LF Code**

LNG

**Typical Weed Species**

*Holcus lanatus*

**Common Name**

Yorkshire Fog

**Invasive**

high

**Impact**

high

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### EVC 83: Swampy Riparian Woodland

#### Description:

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

#### Large trees:

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

#### Tree Canopy Cover:

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

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	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
T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Acacia mearnsii</i>	Black Wattle
MS	<i>Acacia verticillata</i> ssp. <i>verticillata</i>	Prickly Moses
MS	<i>Leptospermum lanigerum</i>	Woolly Tea-tree
MS	<i>Ozothamnus rosmarinifolius</i>	Rosemary Everlasting
LH	<i>Senecio minimus</i>	Shrubby Fireweed
LH	<i>Persicaria praetermissa</i>	Spotted Knotweed
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
SH	<i>Leptinella reptans</i> s.l.	Creeping Cotula
SH	<i>Hydrocotyle sibthorpioides</i>	Shining Pennywort
SH	R r <i>Lobelia beaugholei</i>	Showy Lobelia
LTG	<i>Juncus procerus</i>	Tall Rush
LTG	<i>Cyperus lucidus</i>	Leafy Flat-sedge
LTG	<i>Juncus pallidus</i>	Pale Rush
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
MTG	<i>Juncus planifolius</i>	Broad-leaf Rush
MTG	<i>Juncus pauciflorus</i>	Loose-flower Rush
MTG	<i>Triglochin procerum</i> s.l.	Water Ribbons
MNG	<i>Hemarthria uncinata</i> var. <i>uncinata</i>	Mat Grass
MNG	<i>Triglochin striatum</i>	Streaked Arrowgrass
MNG	<i>Empodisma minus</i>	Spreading Rope-rush
GF	<i>Pteridium esculentum</i>	Austral Bracken
TRF	<i>Cyathea australis</i>	Rough Tree-fern
SC	<i>Calystegia sepium</i>	Large Bindweed

# EVC 83: Swampy Riparian Woodland - Otway Ranges bioregion

**Recruitment:**

Continuous

**Organic Litter:**

20 % cover

**Logs:**

20 m/0.1 ha.

**Weediness:**

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

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### EVC 128: Grassy Forest

#### Description:

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
<i>Eucalyptus</i> spp.	70 cm	20 / ha

#### Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus obliqua</i>	Messmate Stringybark
	<i>Eucalyptus radiata</i> s.l.	Narrow-leaf Peppermint

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	3	10%	MS
Small Shrub	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
<b>Total understorey projective foliage cover</b>		<b>80%</b>	

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

# EVC 128: Grassy Forest - Otway Ranges bioregion

**Recruitment:**

Continuous

**Organic Litter:**

20 % cover

**Logs:**

20 m/0.1 ha.

**Weediness:**

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

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### EVC 161: Coastal Headland Scrub

#### Description:

Wind-pruned scrub or shrubland to 2 m tall with emergent eucalypts 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	9	50%	MS
Large Herb	6	10%	LH
Medium Herb	8	20%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	1%	LTG
Large Non-tufted Graminoid	2	5%	LNG
Medium to Small Tufted Graminoid	6	10%	MTG
Medium to Tiny Non-tufted Graminoid	3	5%	MNG
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Allocasuarina verticillata</i>	Drooping Sheoak
MS	<i>Myoporum insulare</i>	Common Boobialla
MS	<i>Leucopogon parviflorus</i>	Coast Beard-heath
MS	<i>Ozothamnus ferrugineus</i>	Tree Everlasting
SS	k <i>Olearia speciosa</i>	Netted Daisy-bush
LH	<i>Senecio odoratus</i> var. <i>odoratus</i>	Scented Groundsel
LH	<i>Epilobium billardierianum</i>	Variable Willow-herb
MH	<i>Lobelia anceps</i>	Angled Lobelia
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
MH	<i>Pseudognaphalium luteoalbum</i>	Jersey Cudweed
SH	<i>Oxalis exilis</i>	Shady Wood-sorrel
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Oxalis corniculata</i> s.l.	Yellow Wood-sorrel
LTG	<i>Juncus pallidus</i>	Pale Rush
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Poa poiformis</i>	Coast Tussock-grass
MTG	<i>Stylidium graminifolium</i> s.l.	Grass Trigger-plant
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Ficinia nodosa</i>	Knobby Club-sedge
SC	<i>Tetragonia implexicoma</i>	Bower Spinach
SC	<i>Clematis aristata</i>	Mountain Clematis

# EVC 161: Coastal Headland Scrub - Otway Ranges bioregion

## Recruitment:

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

## Organic Litter:

40 % cover

## Logs:

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

## Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Rubus fruticosus</i> spp. agg.	Blackberry	high	high
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Centaureum tenuiflorum</i>	Slender Centaury	high	low
MH	<i>Lotus uliginosus</i>	Greater Bird's-foot Trefoil	high	low
MH	<i>Plantago coronopus</i>	Buck's-horn Plantain	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Lotus suaveolens</i>	Hairy Bird's-foot Trefoil	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MNG	<i>Agrostis capillaris</i> s.l.	Brown-top Bent	high	high

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### 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:

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
<b>Total understorey projective foliage cover</b>		<b>90%</b>	

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Leucopogon parviflorus</i>	Coast Beard-heath
MS	<i>Correa alba</i>	White Correa
LH	<i>Epilobium billardierianum</i> ssp. <i>billardierianum</i>	Smooth Willow-herb
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Samolus repens</i>	Creeping Brookweed
MH	<i>Asperula conferta</i>	Common Woodruff
MH	<i>Sarcocornia quinqueflora</i>	Beaded Glasswort
SH	<i>Selliera radicans</i>	Shiny Swamp-mat
SH	<i>Mimulus repens</i>	Creeping Monkey-flower
SH	<i>Leptinella reptans</i> s.l.	Creeping Cotula
LTG	<i>Austrostipa stipoides</i>	Prickly Spear-grass
LTG	<i>Dichelachne crinita</i>	Long-hair Plume-grass
MTG	<i>Isolepis cernua</i>	Nodding Club-sedge
MTG	<i>Poa poiiformis</i>	Coast Tussock-grass
MTG	<i>Lachnagrostis filiformis</i>	Common Blown-grass
MTG	<i>Dianella brevicaulis</i>	Coast Flax-lily
MNG	<i>Distichlis distichophylla</i>	Australian Salt-grass
MNG	<i>Triglochin striatum</i>	Streaked Arrowgrass
MNG	<i>Ficinia nodosa</i>	Knobby Club-sedge

#### Recruitment:

Continuous

#### Organic Litter:

20% Cover



# EVC 163: Coastal Tussock Grassland - Otway Ranges bioregion

## Weediness:

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

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### EVC 165: Damp Heath Scrub

#### Description:

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	9	50%	MS
Small Shrub	5	15%	SS
Prostrate Shrub	2	5%	PS
Medium Herb	2	5%	MH
Large Tufted Graminoid	3	10%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	3	10%	GF
Bryophytes/Lichens	na	20%	BL
Soil Crust	na	10%	S/C

#### LF Code

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

#### Common Name

MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Pultenaea daphnoides</i>	Large-leaf Bush-pea
SS	<i>Olearia erubescens</i>	Moth Daisy-bush
SS	<i>Olearia myrsinoides</i>	Silky Daisy-bush
SS	<i>Tetralix ciliata</i>	Pink-bells
SS	<i>Bauera rubioides</i>	Wiry Bauera
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
PS	<i>Acrotriche serrulata</i>	Honey-pots
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Xanthorrhoea australis</i>	Austral Grass-tree
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MNG	<i>Tetrarrhena distichophylla</i>	Hairy Rice-grass
MNG	<i>Empodisma minus</i>	Spreading Rope-rush
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Lindsaea linearis</i>	Screw Fern
GF	<i>Gleichenia dicarpa</i>	Pouched Coral-fern
SC	<i>Cassytha pubescens s.s.</i>	Downy Dodder-laurel

#### Recruitment:

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

#### Organic Litter:

40 % cover

#### Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Rubus fruticosus spp. agg.</i>	Blackberry	high	high
LH	<i>Centaurea tenuiflorum</i>	Slender Centaury	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	low
MH	<i>Lotus uliginosus</i>	Greater Bird's-foot Trefoil	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
LNG	<i>Pennisetum clandestinum</i>	Kikuyu	high	high
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high

# EVC 165: Damp Heath Scrub - Otway Ranges bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### EVC 175: Grassy Woodland

#### Description:

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:

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

#### Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus radiata</i> s.l.	Narrow-leaf Peppermint
	<i>Allocasuarina verticillata</i>	Drooping 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 Ranges bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia mearnsii</i>	Black Wattle
T	<i>Allocasuarina littoralis</i>	Black Sheoak
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Cassinia aculeata</i>	Common Cassinia
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Hibbertia riparia</i>	Erect Guinea-flower
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Pterostylis longifolia</i> s.l.	Tall Greenhood
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Drosera peltata</i> ssp. <i>auriculata</i>	Tall Sundew
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Opercularia varia</i>	Variable Stinkweed
SH	<i>Drosera whittakeri</i> ssp. <i>aberrans</i>	Scented Sundew
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
LTG	<i>Xanthorrhoea minor</i> ssp. <i>lutea</i>	Small Grass-tree
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Comesperma volubile</i>	Love Creeper
SC	<i>Billardiera scandens</i>	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	<i>Pinus radiata</i>	Radiata Pine	high	high
T	<i>Pittosporum undulatum</i>	Sweet Pittosporum	high	high
MS	<i>Chrysanthemoides monilifera</i>	Boneseed	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### EVC 198: Sedgy Riparian Woodland

#### Description:

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

#### Large trees:

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

#### Tree Canopy Cover:

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

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	10%	T
Medium Shrub	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

#### LF Code

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

#### Common Name

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

# EVC 198: Sedgy Riparian Woodland - Otway Ranges bioregion

**Recruitment:**

Continuous

**Organic Litter:**

30 % cover

**Logs:**

20 m/0.1 ha.

**Weediness:**

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

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### 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. Largely restricted to western and northern aspects and ridgelines in areas of higher rainfall in the Otway Ranges.

#### Large trees:

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

#### Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus obliqua</i>	Messmate Stringybark
	<i>Eucalyptus cypellocarpa</i>	Mountain Grey Gum

#### Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	4	30%	T
Medium Shrub	6	20%	MS
Large Herb	2	1%	LH
Medium Herb	4	5%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	1	5%	LTG
Large Non-tufted Graminoid	1	10%	LNG
Medium to Small Tufted Graminoid	1	1%	MTG
Ground Fern	3	15%	GF
Tree Fern	2	10%	TRF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	20%	BL

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Pomaderris aspera</i>	Hazel Pomaderris
T	<i>Olearia argophylla</i>	Musk Daisy-bush
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Olearia lirata</i>	Snowy Daisy-bush
MS	<i>Goodenia ovata</i>	Hop Goodenia
MS	<i>Hedycarya angustifolia</i>	Austral Mulberry
LH	<i>Mentha laxiflora</i>	Forest Mint
LH	<i>Senecio linearifolius</i>	Fireweed Groundsel
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
MH	<i>Stellaria flaccida</i>	Forest Starwort
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
SH	<i>Oxalis corniculata s.l.</i>	Yellow Wood-sorrel
LTG	<i>Lepidosperma elatius</i>	Tall Sword-sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
TRF	<i>Cyathea australis</i>	Rough Tree-fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
SC	<i>Clematis aristata</i>	Mountain Clematis

# EVC 201: Shrubby Wet Forest - Otway Ranges bioregion

**Recruitment:**

Continuous

**Organic Litter:**

50 % cover

**Logs:**

30 m/0.1 ha.

**Weediness:**

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Hypericum androsaemum</i>	Tutsan	high	high

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### EVC 233: Wet Sands Thicket

#### Description:

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

#### Life forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	5	50%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	1	5%	PS
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	25%	LNG
Ground Fern	2	5%	GF
Tree Fern	1	1%	TRF
Bryophytes/Lichens	na	20%	BL

#### LF Code

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

#### Common Name

MS	<i>Bossiaea cinerea</i>	Showy Bossiaea
MS	<i>Monotoca glauca</i>	Currant-wood
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Melaleuca squarrosa</i>	Scented Paperbark
SS	<i>Boronia muelleri</i>	Forest Boronia
SS	<i>Bauera rubioides</i>	Wiry Bauera
SS	<i>Amperea xiphioclada</i> var. <i>xiphioclada</i>	Broom Spurge
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern

#### Recruitment:

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

#### Organic Litter:

40 % cover

#### Weediness:

There are no consistent weeds in this EVC.



# EVC 233: Wet Sands Thicket - Otway Ranges bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### 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
<b>Total understorey projective foliage cover</b>		<b>60%</b>	

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

#### Recruitment:

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

#### Organic Litter:

10% cover

#### Weediness:

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

# EVC 863: Floodplain Reedbed – Otway Ranges bioregion

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# EVC/Bioregion Benchmark for Vegetation Quality Assessment

## Otway Ranges bioregion

### EVC 894: Scoria Cone Woodland

#### Description:

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

#### Large trees:

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

#### Tree Canopy Cover:

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

#### Understorey:

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

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

# EVC 894: Scoria Cone Woodland – Otway Ranges bioregion

**Recruitment:**

Continuous

**Organic Litter:**

20 % cover

**Logs:**

10 m/0.1 ha

**Weediness:**

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

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