

EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 2: Coast Banksia Woodland

Description:

Restricted to near coastal localities on secondary dunes behind Coastal Dune Scrub. Usually dominated by a woodland overstorey of Saw Banksia *Banksia integrifolia* to 15 m tall over a medium shrub layer. The understorey consists of a number of herbs and sedges, including scramblers. Soils are intermediate in calcium and iron content between the foredunes where these elements are leached from the A and B soil horizons. Soils are also intermediate in organic matter between these dune systems.

Large trees:

Species	DBH(cm)	#/ha
<i>Banksia</i> spp.	50 cm	10 / ha
<i>Eucalyptus</i> spp.	70 cm	

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Banksia integrifolia</i>	Coast Banksia
	<i>Eucalyptus botryoides</i>	Bangalay

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	5	15%	MS
Small Shrub	3	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	2	1%	LH
Medium Herb	4	10%	MH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	3	5%	MTG
Ground Fern	1	5%	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>Monotoca elliptica</i>	Tree Broom-heath
MS	<i>Leptospermum laevigatum</i>	Coast Tea-tree
MS	<i>Leucopogon parviflorus</i>	Coast Beard-heath
MS	<i>Alyxia buxifolia</i>	Sea Box
MS	<i>Rhagodia candolleana</i> ssp. <i>candolleana</i>	Seaberry Saltbush
SS	<i>Dampiera stricta</i>	Blue Dampiera
SS	<i>Dillwynia glaberrima</i>	Smooth Parrot-pea
MH	<i>Dichondra repens</i>	Kidney-weed
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
MTG	<i>Lepidosperma gladiatum</i>	Coast Sword-sedge
MTG	<i>Burchardia umbellata</i>	Milkmaids
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Tetragonia implexicoma</i>	Bower Spinach
SC	<i>Muehlenbeckia adpressa</i>	Climbing Lignum

EVC 2: Coast Banksia Woodland - East Gippsland Lowlands bioregion

Recruitment:

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

Organic Litter:

40 % cover

Logs:

10 m/0.1 ha.

Weediness:

There are no consistent weeds in this EVC.

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 3: Damp Sands Herb-rich Woodland

Description:

A low, grassy or bracken-dominated eucalypt and banksia woodland or open forest to 15 m tall with a large shrub layer and ground layer rich in herbs, grasses, and orchids. Occurs mainly on old sand flats or undulating areas on moderately fertile, relatively well-drained, deep sandy or loamy topsoils over heavier subsoils (duplex soils). The subsoil of the tertiary dune systems has concretions of humus and iron rich deposits forming a coffee rock layer.

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus viminalis</i> ssp. <i>pyroriana</i>	Rough-barked Manna Gum
	<i>Banksia serrata</i>	Saw Banksia
	<i>Banksia integrifolia</i>	Coast Banksia

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	5	25%	MS
Small Shrub	3	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	2	5%	LH
Medium Herb	8	15%	MH
Small or Prostrate Herb	5	10%	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	10%	MNG
Ground Fern	1	15%	GF
Bryophytes/Lichens	na	10%	BL

EVC 3: Damp Sands Herb-rich Woodland - East Gippsland Lowlands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia mearnsii</i>	Black Wattle
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Leptospermum myrsinoides</i>	Heath Tea-tree
SS	<i>Leucopogon virgatus</i>	Common Beard-heath
SS	<i>Dillwynia glaberrima</i>	Smooth Parrot-pea
SS	<i>Amperea xiphoclada</i> var. <i>xiphoclada</i>	Broom Spurge
PS	<i>Astroloma humifusum</i>	Cranberry Heath
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Drosera peltata</i> ssp. <i>auriculata</i>	Tall Sundew
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Geranium solanderi</i> s.l.	Austral Cranesbill
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Opercularia varia</i>	Variable Stinkweed
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Poranthera microphylla</i>	Small Poranthera
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Austrostipa mollis</i>	Supple Spear-grass
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Lepidosperma concavum</i>	Sandhill Sword-sedge
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MTG	<i>Lomandra filiformis</i>	Wattle-headed Mat-rush
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MNG	<i>Imperata cylindrica</i>	Blady Grass
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>Thysanotus patersonii</i>	Climbing Fringe-lily

Recruitment:
Continuous

Organic Litter:
40 % cover

Logs:
15 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Hypochaeris radicata</i>	Cat's Ear	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal Grass	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 4: Coastal Vine-rich Forest

Description:

Closed to open forest to 25 m tall. Occurs only in East Gippsland and develops at the foot of slopes (often in shallow coastal gullies) which spill out onto coastal inlets or on aeolian sands on the seaward side of coastal hills which have a damp southerly aspect. The understorey has a scattered tall shrub layer and is covered with a diverse array of rainforest lianes. The groundlayer is dominated by Bracken *Pteridium esculentum*, tussock grasses and a wide array of herbs. This EVC is the early stages of littoral rainforest colonisation or recovery following severe wildfire.

Large trees:

Species	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	80 cm	20 / ha
<i>Angophora</i> spp.	70 cm	
<i>Acmena</i> spp.	70 cm	

Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus botryoides</i>	Southern Mahogany
	<i>Angophora floribunda</i>	Rough-barked Apple
	<i>Eucalyptus gummifera</i>	Red Bloodwood
	<i>Acmena smithii</i>	Lilly Pilly

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	7	25%	MS
Small Shrub	3	10%	SS
Medium Herb	4	10%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	3	10%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	3	5%	MTG
Ground Fern	2	10%	GF
Tree Fern	1	1%	TRF
Scrambler or Climber	5	10%	SC
Bryophytes/Lichens	na	20%	BL

EVC 4: Coastal Vine-rich Forest - East Gippsland Lowlands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Elaeocarpus reticulatus</i>	Blue Oliveberry
T	<i>Acacia mearnsii</i>	Black Wattle
MS	<i>Melaleuca squarrosa</i>	Scented Paperbark
MS	<i>Platysace lanceolata</i>	Shrubby Platysace
MS	<i>Notelaea venosa</i>	Large Mock-olive
MS	<i>Monotoca elliptica</i> s.l.	Tree Broom-heath
SS	<i>Dampiera stricta</i>	Blue Dampiera
SS	<i>Tetralthea pilosa</i>	Hairy Pink-bells
SS	<i>Amperea xiphoclada</i> var. <i>xiphoclada</i>	Broom Spurge
MH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Gonocarpus teucroides</i> s.l.	Germander Raspwort
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Gahnia clarkei</i>	Tall Saw-sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Dianella caerulea</i> var. <i>caerulea</i>	Paroo Lily
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Clematis glycinoides</i>	Mountain Clematis
SC	<i>Tylophora barbata</i>	Bearded Tylophora
SC	<i>Cissus hypoglauca</i>	Jungle Grape
SC	<i>Eustrephus latifolius</i>	Wombat Berry

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

East Gippsland Lowlands bioregion

EVC 5: Coastal Sand Heathland

Description:

An open or closed coastal heathland less than 1 m tall dominated by a diverse shrub layer and a variable ground layer of sedges, lilies and grasses. The heathland is found on well-drained siliceous sands and is often wind-pruned due to extreme exposure to wind and salt-spray.

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	8	40%	MS
Small Shrub	6	15%	SS
Large Herb	1	1%	LH
Medium Herb	5	10%	MH
Large Tufted Graminoid	3	5%	LTG
Medium to Small Tufted Graminoid	4	5%	MTG
Medium to Tiny Non-tufted Graminoid	4	15%	MNG
Ground Fern	2	5%	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
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Allocasuarina paludosa</i>	Scrub Sheoak
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Leptospermum laevigatum</i>	Coast Tea-tree
SS	<i>Dillwynia glaberrima</i>	Smooth Parrot-pea
SS	<i>Dampiera stricta</i>	Blue Dampiera
SS	<i>Hibbertia empetrifolia</i> s.l.	Tangled Guinea-flower
SS	<i>Leucopogon collinus</i>	Fringed Beard-heath
PS	<i>Xanthosia pusilla</i> spp. agg.	Heath Xanthosia
MH	<i>Selaginella uliginosa</i>	Swamp Selaginella
MH	<i>Gonocarpus teucroides</i> s.l.	Germander Raspwort
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
SH	<i>Opercularia varia</i>	Variable Stinkweed
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Anisopogon avenaceus</i>	Oat Spear-grass
MTG	<i>Patersonia glabrata</i>	Leafy Purple-flag
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Lepidosperma concavum</i>	Sandhill Sword-sedge
MTG	<i>Lepidosperma filiforme</i>	Common Rapier-sedge
MNG	<i>Schoenus brevifolius</i>	Zig-zag Bog-sedge
MNG	<i>Empodisma minus</i>	Spreading Rope-rush
MNG	<i>Leptocarpus tenax</i>	Slender Twine-rush
MNG	<i>Lepidosperma neesii</i>	Stiff Rapier-sedge
GF	<i>Pteridium esculentum</i>	Austral Bracken
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 5: Coastal Sand Heathland - East Gippsland Lowlands bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 7: Clay Heathland

Description:

Occurs on sites with impeded drainage, often on duplex soils. Dominated by heathy shrub species with or without an eucalypt overstorey. The ground layer is dense and diverse with a variety of landforms.

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

Large trees⁺:

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

Tree Canopy Cover⁺:

%cover	Character Species	Common Name
10%	<i>Eucalyptus conspicua</i>	Swamp Stringybark

Understorey:

Life form	#Spp	%Cover	LF code
Medium Shrub	6	30%	MS
Small Shrub	7	20%	SS
Prostrate Shrub	2	1%	PS
Large Herb	2	1%	LH
Medium Herb	8	10%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	3	5%	LTG
Medium to Small Tufted Graminoid	4	5%	MTG
Medium to Tiny Non-tufted Graminoid	4	5%	MNG
Ground Fern	2	1%	GF
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		75%	

EVC 7: Clay Heathland - East Gippsland Lowlands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Allocasuarina paludosa</i>	Scrub Sheoak
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Hakea teretifolia</i> ssp. <i>hirsuta</i>	Dagger Hakea
SS	<i>Dampiera stricta</i>	Blue Dampiera
SS	<i>Dillwynia sericea</i> s.l.	Showy Parrot-pea
SS	<i>Hibbertia empetrifolia</i> s.l.	Tangled Guinea-flower
SS	<i>Sphaerolobium vimineum</i> s.l.	Leafless Globe-pea
PS	<i>Xanthosia pusilla</i> spp. agg.	Heath Xanthosia
LH	<i>Euphrasia collina</i>	Purple Eyebright
LH	r <i>Hybanthus vernonii</i> ssp. <i>vernonii</i>	Erect Violet
MH	<i>Gonocarpus teucrioides</i> s.l.	Germander Raspwort
MH	<i>Drosera peltata</i> ssp. <i>auriculata</i>	Tall Sundew
MH	<i>Helichrysum scorpioides</i>	Button Everlasting
SH	<i>Opercularia varia</i>	Variable Stinkweed
SH	<i>Drosera pygmaea</i>	Tiny Sundew
LTG	<i>Anisopogon avenaceus</i>	Oat Spear-grass
LTG	<i>Xanthorrhoea resinosa</i>	Spear Grass-tree
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Patersonia sericea</i>	Silky Purple-flag
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Patersonia glabrata</i>	Leafy Purple-flag
MNG	<i>Schoenus brevifolius</i>	Zig-zag Bog-sedge
MNG	<i>Lepidosperma neesii</i>	Stiff Rapier-sedge
MNG	<i>Entolasia marginata</i>	Bordered Panic
MNG	<i>Schoenus lepidosperma</i>	Slender Bog-sedge
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.

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands Bioregion

EVC 7_61: Treed Clay Heathland

Description:

Occurs on sites with impeded drainage, often on duplex soils. Dominated by heathy shrub species with or without an eucalypt overstorey. The ground layer is dense and diverse with a variety of lifeforms.

Large Trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
10%	<i>Eucalyptus conspicua</i>	Silver Swamp Stringybark

Understorey:

Lifeform	#Spp	%Cover	LF Code
Medium Shrub	6	30%	MS
Small Shrub	7	20%	SS
Prostrate Shrub	2	1%	PS
Large Herb	2	1%	LH
Medium Herb	8	10%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	3	5%	LTG
Medium to Small Tufted Graminoid	4	5%	MTG
Medium to Tiny Non-Tufted Graminoid	4	5%	MNG
Ground Fern	2	1%	GF
Bryophytes/Lichens		10%	BL
Soil Crust		10%	S/C

LF Code

Species typical of at least part of EVC range

Common Name

MS	<i>Allocasuarina paludosa</i>	Scrub Sheoak
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Hakea teretifolia</i> subsp. <i>hirsuta</i>	Dagger Hakea
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
SS	<i>Dampiera stricta</i>	Blue Dampiera
SS	<i>Dillwynia sericea</i>	Showy Parrot-pea
SS	<i>Hibbertia empetrifolia</i> s.l.	Tangled Guinea-flower
SS	<i>Sphaerolobium vimineum</i> s.l.	Leafless Globe-pea
PS	<i>Xanthosia pusilla</i> spp. agg.	Heath Xanthosia
LH	<i>Euphrasia collina</i>	Purple Eyebright
LH	<i>Hybanthus vernonii</i> subsp. <i>vernonii</i>	Erect Violet
MH	<i>Drosera peltata</i> subsp. <i>auriculata</i>	Tall Sundew
MH	<i>Gonocarpus teucrioides</i> s.l.	Germander Raspwort
MH	<i>Helichrysum scorpioides</i>	Button Everlasting
SH	<i>Drosera pygmaea</i>	Tiny Sundew

EVC 7_61: Treed Clay Heathland

LF Code	Species typical of at least part of EVC range	Common Name
SH	<i>Opercularia varia</i>	Variable Stinkweed
LTG	<i>Anisopogon avenaceus</i>	Oat Spear-grass
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
LTG	<i>Xanthorrhoea resinosa</i>	Spear Grass-tree
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Patersonia glabrata</i>	Leafy Purple-flag
MTG	<i>Patersonia sericea</i>	Silky Purple-flag
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MNG	<i>Entolasia marginata</i>	Bordered Panic
MNG	<i>Lepidosperma neesii</i>	Stiff Rapier-sedge
MNG	<i>Schoenus brevifolius</i>	Zig-zag Bog-sedge
MNG	<i>Schoenus lepidosperma</i>	Slender Bog-sedge
GF	<i>Lindsaea linearis</i>	Screw Fern

Recruitment:

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

Organic Litter:

20 % cover

Logs:

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

Weediness: There are no consistent weeds in this EVC

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 8: Wet Heathland

Description:

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

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	7	40%	MS
Small Shrub	4	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	1	1%	LH
Medium Herb	4	5%	MH
Large Tufted Graminoid	2	15%	LTG
Medium to Small Tufted Graminoid	3	5%	MTG
Medium to Tiny Non-tufted Graminoid	5	10%	MNG
Ground Fern	1	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	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Epacris obtusifolia</i>	Blunt-leaf Heath
MS	<i>Comesperma ericinum</i>	Heath Milkwort
SS	<i>Dampiera stricta</i>	Blue Dampiera
SS	<i>Dillwynia glaberrima</i>	Smooth Parrot-pea
PS	<i>Xanthosia dissecta s.l.</i>	Cut-leaf Xanthosia
MH	<i>Selaginella uliginosa</i>	Swamp Selaginella
MH	<i>Drosera peltata ssp. auriculata</i>	Tall Sundew
MH	<i>Gonocarpus teucroides s.l.</i>	Germander Raspwort
LTG	<i>Xanthorrhoea resinosa</i>	Spear Grass-tree
MTG	<i>Eurychorda complanata</i>	Flat Cord-rush
MTG	<i>Stylidium graminifolium s.l.</i>	Grass Trigger-plant
MTG	<i>Patersonia fragilis</i>	Short Purple-flag
MTG	<i>Burchardia umbellata</i>	Milkmaids
MNG	<i>Leptocarpus tenax</i>	Slender Twine-rush
MNG	<i>Empodisma minus</i>	Spreading Rope-rush
MNG	<i>Schoenus brevifolius</i>	Zig-zag Bog-sedge
MNG	<i>Schoenus lepidosperma</i>	Slender Bog-sedge
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 - East Gippsland Lowlands bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 9: Coastal Saltmarsh

Description:

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	3	10%	MS
Small Shrub	2	1%	SS
Prostrate Shrub	1	1%	PS
Medium Herb	4	20%	MH
Small or Prostrate Herb	1	5%	SH
Large Tufted Graminoid	1	1%	LTG
Large Non-tufted Graminoid	2	10%	LNG
Medium to Small Tufted Graminoid	2	5%	MTG
Medium to Tiny Non-tufted Graminoid	1	15%	MNG
Scrambler or Climber	1	1%	SC
Soil Crust	na	10 %	S/C
Total understorey projective foliage cover		75%	

LF Code	Species typical of at least part of EVC range	Common Name
PS	<i>Wilsonia backhousei</i>	Narrow-leaf Wilsonia
MH	<i>Sarcocornia quinqueflora</i>	Beaded Glasswort
MH	<i>Samolus repens</i>	Creeping Brookweed
SH	<i>Selliera radicans</i>	Shiny Swamp-mat
LNG	<i>Juncus kraussii ssp. australiensis</i>	Sea Rush
MNG	<i>Baumea juncea</i>	Bare Twig-sedge

Recruitment:

Continuous

Organic Litter:

10% cover

Weediness:

There are no consistent weeds in this EVC.

EVC 9: Coastal Saltmarsh - East Gippsland Lowlands bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands 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 Swamp Paperbark *Melaleuca ericifolia* at the landward edge.

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	1	10%	MS
Small Shrub	2	5%	SS
Large Herb	2	5%	LH
Medium Herb	6	15%	MH
Small or Prostrate Herb	2	10%	SH
Large Tufted Graminoid	2	10%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	2	5%	MTG
Medium to Tiny Non-tufted Graminoid	3	20%	MNG
Ground Fern	1	5%	GF
Scrambler or Climber	1	1%	SC
Total understorey projective foliage cover		85%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Melaleuca ericifolia</i>	Swamp Paperbark
MH	<i>Samolus repens</i>	Creeping Brookweed
MH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
SH	<i>Selliera radicans</i>	Shiny Swamp-mat
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Juncus pallidus</i>	Pale Rush
LNG	<i>Juncus kraussii ssp. australiensis</i>	Sea Rush
MNG	<i>Ficinia nodosa</i>	Knobby Club-sedge
MNG	<i>Distichlis distichophylla</i>	Australian Salt-grass
GF	<i>Pteridium esculentum</i>	Austral Bracken

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>Cirsium vulgare</i>	Spear Thistle	high	high
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Plantago coronopus</i>	Buck's-horn Plantain	high	high
MH	<i>Cotula coronopifolia</i>	Water Buttons	high	high

EVC 10: Estuarine Wetland - East Gippsland Lowlands bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 11: Coastal Lagoon Wetland

Description:

Occupies the margins of coastal freshwater lagoons that have formed behind the coastal dune barrier and the adjacent hills. It has several zones dependent upon water depth and persistence of inundation. Within the lagoon itself where exposure is rare, the vegetation is dominated by graminoids whereas on the lagoon margin a tall scrub layer is common.

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	5	15%	MS
Small Shrub	2	1%	SS
Large Herb	1	1%	LH
Medium Herb	2	5%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	2	10%	LTG
Large Non-tufted Graminoid	2	15%	LNG
Medium to Small Tufted Graminoid	1	1%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	1	5%	GF
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	10%	BL
Total understorey projective foliage cover		60%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Leptospermum glabrescens s.l.</i>	Smooth Tea-tree
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Melaleuca squarrosa</i>	Scented Paperbark
MS	<i>Melaleuca ericifolia</i>	Swamp Paperbark
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
LTG	<i>Triglochin procerum s.l.</i>	Water Ribbons
LTG	<i>Carex appressa</i>	Tall Sedge
LNG	<i>Phragmites australis</i>	Common Reed
LNG	<i>Lepidosperma longitudinale</i>	Pithy Sword-sedge
MNG	<i>Baumea tetragona</i>	Square Twig-sedge
SC	<i>Cassytha glabella</i>	Slender Dodder-laurel

Recruitment:

Continuous

Organic Litter:

20% cover

Weediness:

There are no consistent weeds in this EVC.

EVC 11: Coastal Lagoon Wetland - East Gippsland Lowlands bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 12: Wet Swale Herbland

Description:

Occupies seasonally inundated dune swales often forming between the coastal dune barrier and hinterland hills. Soils are predominantly deep peats often with aeolian sand lenses where species typical of drier environments may grow. This EVC typically consists of a range of amphibious rushes, sedges and herbs.

Life forms:

Life form	#Spp	%Cover	LF code
Small Shrub	1	1%	SS
Large Herb	1	1%	LH
Medium Herb	7	15%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	4	10%	MTG
Medium to Tiny Non-tufted Graminoid	4	25%	MNG
Ground Fern	1	5%	GF
Scrambler or Climber	2	1%	SC
Total understorey projective foliage cover		70%	

LF Code	Species typical of at least part of EVC range	Common Name
LH	<i>Villarsia reniformis</i>	Running Marsh-flower
MH	<i>Potamogeton tricarlinatus</i> s.l.	Floating Pondweed
MH	<i>Myriophyllum simulans</i>	Amphibious Water-milfoil
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Veronica plebeia</i>	Trailing Speedwell
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Hydrocotyle sibthorpioides</i>	Shining Pennywort
SH	<i>Asperula subsimplex</i>	Water Woodruff
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LNG	<i>Eleocharis sphacelata</i>	Tall Spike-sedge
MTG	<i>Lepidosperma concavum</i>	Sandhill Sword-sedge
MTG	<i>Isolepis fluitans</i>	Floating Club-sedge
MTG	<i>Lachnagrostis filiformis</i>	Common Blown-grass
MTG	<i>Triglochin procerum</i> s.l.	Water Ribbons
MNG	<i>Imperata cylindrica</i>	Blady Grass
MNG	<i>Hemarthria uncinata</i> var. <i>uncinata</i>	Mat Grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	e <i>Pseudoraphis paradoxa</i>	Slender Mud-grass
MNG	<i>Ficinia nodosa</i>	Knobby Club-sedge
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Billardiera scandens</i>	Common Apple-berry
SC	<i>Glycine clandestina</i>	Twining Glycine

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
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low

EVC 12: Wet Swale Herbland - East Gippsland Lowlands bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 13: Brackish Sedgeland

Description:

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

Life Forms:

Life form	#Spp	%Cover	LF code
Large Herb	1	1%	LH
Medium Herb	2	5%	MH
Small or Prostrate Herb	2	1%	SH
Medium to Tiny Non-tufted Graminoid	2	55%	MNG
Total understorey projective foliage cover		60%	

LF Code	Species typical of at least part of EVC range	Common Name
LH	<i>Villarsia exaltata</i>	Erect Marsh-flower
LH	<i>Villarsia reniformis</i>	Running Marsh-flower
MH	<i>Samolus repens</i>	Creeping Brookweed
MH	<i>Lobelia anceps</i>	Angled Lobelia
SH	<i>Selliera radicans</i>	Shiny Swamp-mat
MNG	<i>Leptocarpus tenax</i>	Slender Twine-rush
MNG	<i>Hemarthria uncinata</i> var. <i>uncinata</i>	Mat Grass
MNG	<i>Baumea juncea</i>	Bare Twig-sedge

Recruitment:

Continuous

Organic Litter:

NA

Weediness:

There are no consistent weeds in this EVC.

EVC 13: Brackish Sedgeland - East Gippsland Lowlands bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 14: Banksia Woodland

Description:

Open scrub to open woodland to 10 m tall on well-drained Quaternary and Tertiary sandy soils. The overstorey is dominated by Saw Banksia *Banksia serrata*, sometimes with emergent eucalypts while the understorey is shrub-rich.

Large trees:

Species	DBH(cm)	#/ha
<i>Banksia serrata</i>	50 cm	15 / ha

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Banksia serrata</i>	Saw Banksia

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	10	25%	MS
Small Shrub	7	15%	SS
Large Herb	1	1%	LH
Medium Herb	5	10%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	3	10%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	5	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	2	10%	GF
Scrambler or Climber	3	1%	SC
Bryophytes/Lichens	na	10%	BL

EVC 14: Banksia Woodland - East Gippsland Lowlands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Acacia terminalis</i>	Sunshine Wattle
MS	<i>Acacia suaveolens</i>	Sweet Wattle
SS	<i>Dampiera stricta</i>	Blue Dampiera
SS	<i>Amperea xiphoclada</i> var. <i>xiphoclada</i>	Broom Spurge
SS	<i>Tetratheca pilosa</i>	Hairy Pink-bells
SS	<i>Dillwynia glaberrima</i>	Smooth Parrot-pea
MH	<i>Gonocarpus teucroides</i> s.l.	Germander Raspwort
MH	<i>Selaginella uliginosa</i>	Swamp Selaginella
MH	<i>Drosera peltata</i> ssp. <i>auriculata</i>	Tall Sundew
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Xanthorrhoea resinosa</i>	Spear Grass-tree
LTG	<i>Gahnia clarkei</i>	Tall Saw-sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Dianella caerulea</i> var. <i>caerulea</i>	Paroo Lily
MTG	<i>Patersonia glabrata</i>	Leafy Purple-flag
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Burchardia umbellata</i>	Milkmaids
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 glabella</i>	Slender Dodder-laurel
SC	<i>Cassytha phaeolasia</i>	Rusty Dodder-laurel
SC	<i>Billardiera scandens</i>	Common Apple-berry

Recruitment:

Episodic/Fire. Desirable period between disturbances is 30 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

East Gippsland Lowlands bioregion

EVC 15: Limestone Box Forest

Description:

Occurs on generally well developed terra rossa soils derived from Tertiary limestones that outcrop around coastal streams, gullies and lakes. Open eucalypt forest to 20 m tall with a tall shrub layer understorey and a grass and herb-rich ground layer on sheltered aspects but may be almost completely bare on drier aspects.

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 botryoides</i>	Southern Mahogany
	<i>Eucalyptus baueriana</i>	Blue Box
	<i>Eucalyptus bosistoana</i>	Coast Grey Box
	<i>Eucalyptus tricarpa</i>	Red Ironbark

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	3	15%	T
Medium Shrub	5	15%	MS
Small Shrub	1	1%	SS
Large Herb	2	1%	LH
Medium Herb	8	10%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	2	5%	LNG
Medium to Small Tufted Graminoid	4	5%	MTG
Medium to Tiny Non-tufted Graminoid	3	5%	MNG
Ground Fern	3	15%	GF
Scrambler or Climber	6	10%	SC
Bryophytes/Lichens	na	10%	BL

EVC 15: Limestone Box Forest - East Gippsland Lowlands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Rapanea howittiana</i>	Mutton-wood
T	<i>Pomaderris aspera</i>	Hazel Pomaderris
MS	<i>Olearia lirata</i>	Snowy Daisy-bush
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Melaleuca ericifolia</i>	Swamp Paperbark
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Solanum prinophyllum</i>	Forest Nightshade
MH	<i>Geranium potentilloides</i>	Cinquefoil Cranesbill
MH	<i>Veronica calycina</i>	Hairy Speedwell
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Oxalis corniculata</i> s.l.	Yellow Wood-sorrel
SH	<i>Desmodium gunnii</i>	Southern Tick-trefoil
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Gahnia melanocarpa</i>	Black-fruit Saw-sedge
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MTG	<i>Dianella caerulea</i> var. <i>caerulea</i>	Paroo Lily
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Oplismenus hirtellus</i>	Australian Basket-grass
MNG	<i>Poa tenera</i>	Slender Tussock-grass
MNG	<i>Echinopogon ovatus</i>	Common Hedgehog-grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Calochlaena dubia</i>	Common Ground-fern
GF	<i>Pellaea falcata</i> s.l.	Sickle Fern
GF	<i>Adiantum aethiopicum</i>	Common Maidenhair
SC	<i>Tylophora barbata</i>	Bearded Tylophora
SC	<i>Eustrephus latifolius</i>	Wombat Berry
SC	<i>Glycine clandestina</i>	Twining Glycine
SC	<i>Clematis glycinoides</i> var. <i>glycinoides</i>	Forest Clematis

Recruitment:
Continuous

Organic Litter:
20 % cover

Logs:
15 m/0.1 ha.

Weediness:				
LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Cerastium glomeratum</i> s.l.	Common Mouse-ear Chickweed	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 16: Lowland Forest

Description:

Eucalypt forest to 25 m tall on relatively fertile, moderately well-drained soils in areas of relatively high rainfall. Characterised by the diversity of life forms and species in the understorey including a range of shrubs, grasses and herbs.

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus sieberi</i>	Silvertop Ash
	<i>Eucalyptus globoidea</i>	White Stringybark
	<i>Eucalyptus consideniana</i>	Yertchuk

Understorey:

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

EVC 16: Lowland Forest - East Gippsland Lowlands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Exocarpos cupressiformis</i>	Cherry Ballart
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Persoonia linearis</i>	Narrow-leaf Geebung
MS	<i>Acacia myrtifolia</i>	Myrtle Wattle
MS	<i>Acacia terminalis</i>	Sunshine Wattle
SS	<i>Tetratheca pilosa</i>	Hairy Pink-bells
SS	<i>Hibbertia empetrifolia s.l.</i>	Tangled Guinea-flower
SS	<i>Dampiera stricta</i>	Blue Dampiera
SS	<i>Amperea xiphoclada var. xiphoclada</i>	Broom Spurge
MH	<i>Gonocarpus teucrioides s.l.</i>	Germander Raspwort
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
MH	<i>Scaevola ramosissima</i>	Hairy Fan-flower
MH	<i>Opercularia aspera</i>	Coarse Stinkweed
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Xanthorrhoea minor ssp. lutea</i>	Small Grass-tree
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Joycea pallida</i>	Silvertop Wallaby-grass
MTG	<i>Dianella caerulea var. caerulea</i>	Paroo Lily
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Patersonia glabrata</i>	Leafy Purple-flag
MTG	<i>Hierochloa rariflora</i>	Cane Holy-grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Lindsaea linearis</i>	Screw Fern
SC	<i>Cassytha phaeolasia</i>	Rusty Dodder-laurel
SC	<i>Cassytha glabella</i>	Slender Dodder-laurel
SC	<i>Billardiera scandens</i>	Common Apple-berry

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

East Gippsland Lowlands bioregion

EVC 18: Riparian Forest

Description:

A tall forest along river banks and associated alluvial terraces with occasional occurrences in the heads of gullies leading into creeks and rivers. The soil is fertile alluvium, regularly inundated and permanently moist. Dominated by tall eucalypts to 30 m tall, 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 cypellocarpa</i>	Mountain Grey-gum
	<i>Eucalyptus croajingaolensis</i>	Gippsland Peppermint
	<i>Eucalyptus viminalis</i>	Manna Gum
	<i>Eucalyptus elata</i>	River Peppermint

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	4	15%	T
Medium Shrub	13	25%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	2	1%	LH
Medium Herb	7	10%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	4	10%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	4	5%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	5	15%	GF
Tree Fern	1	5%	TRF
Scrambler or Climber	7	15%	SC
Bryophytes/Lichens	na	20%	BL

EVC 18: Riparian Forest - East Gippsland Lowlands bioregion

LF Code	Species typical of at least part of EVC range	Common Name		
T	<i>Pomaderris aspera</i>	Hazel Pomaderris		
T	<i>Elaeocarpus reticulatus</i>	Blue Oliveberry		
T	<i>Tristaniopsis laurina</i>	Kanooka		
MS	<i>Notelaea venosa</i>	Large Mock-olive		
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush		
MS	<i>Prostanthera lasianthos</i>	Victorian Christmas-bush		
MS	<i>Goodenia ovata</i>	Hop Goodenia		
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet		
MH	<i>Gonocarpus teucrioides</i> s.l.	Germander Raspwort		
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy		
MH	<i>Opercularia aspera</i>	Coarse Stinkweed		
SH	<i>Dichondra repens</i>	Kidney-weed		
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush		
LTG	<i>Gahnia clarkei</i>	Tall Saw-sedge		
LTG	<i>Gahnia melanocarpa</i>	Black-fruit Saw-sedge		
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass		
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge		
MTG	<i>Dianella caerulea</i> var. <i>caerulea</i>	Paroo Lily		
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily		
MTG	<i>Hierochloe rariflora</i>	Cane Holy-grass		
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass		
GF	<i>Pteridium esculentum</i>	Austral Bracken		
GF	<i>Adiantum aethiopicum</i>	Common Maidenhair		
GF	<i>Blechnum cartilagineum</i>	Gristle Fern		
GF	<i>Calochlaena dubia</i>	Common Ground-fern		
TRF	<i>Cyathea australis</i>	Rough Tree-fern		
EP	<i>Hymenophyllum cupressiforme</i>	Common Filmy Fern		
SC	<i>Tylophora barbata</i>	Bearded Tylophora		
SC	<i>Smilax australis</i>	Austral Sarsaparilla		
SC	<i>Billardiera scandens</i>	Common Apple-berry		
SC	<i>Eustrephus latifolius</i>	Wombat Berry		
Recruitment:				
Continuous				
Organic Litter:				
50 % cover				
Logs:				
30 m/0.1 ha.				
Weediness:				
LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 19: Riparian Shrubland

Description:

Diverse, medium to tall shrubland to 8 m tall occurring on rocky substrates of major streams and banks and channels of rocky creeks and along perennial streams in gorge tracts. Able to withstand frequent flooding or regenerate rapidly after such disturbance and often forming dense thickets along the stream's edge during long periods without flooding. Trees may be irregularly scattered throughout but tend to be restricted to the banks of the rivers and creeks. Sedges and rushes common to riparian environments dominate the understorey as well as an array of herbs and grasses including many ephemeral species which survive on the bare sands or in rock crevice.

Canopy Cover:

%cover

30%

Character Species

Acacia mearnsii

Acacia falciformis

Pomaderris aspera

Common Name

Black Wattle

Large-leaf Hickory-wattle

Hazel Pomaderris

Understorey:

Life form

Medium Shrub

Large Herb

Medium Herb

Small or Prostrate Herb

Large Tufted Graminoid

Medium to Small Tufted Graminoid

Medium to Tiny Non-tufted Graminoid

Ground Fern

Scrambler or Climber

Bryophytes/Lichens

#Spp

6

6

9

3

3

2

2

2

2

na

%Cover

25%

5%

10%

5%

5%

10%

1%

1%

1%

20%

LF code

MS

LH

MH

SH

LTG

MTG

MNG

GF

SC

BL

Total understorey projective foliage cover

75%

LF Code

MS

MS

MS

MS

SS

LH

LH

LH

MH

MH

MH

SH

SH

SH

SH

LTG

LTG

LTG

LTG

LNG

MTG

MTG

MTG

MNG

MNG

MNG

GF

GF

GF

SC

SC

Species typical of at least part of EVC range

Kunzea ericoides

Cassinia longifolia

Philotheca myoporoides

Beyeria lasiocarpa

Olearia iodochroa

Stypandra glauca

Xerochrysum bracteatum

Myriophyllum verrucosum

Solanum prinophyllum

Veronica plebeia

Hydrocotyle hirta

Oxalis corniculata s.l.

Dichondra repens

Hydrocotyle sibthorpioides

Crassula sieberiana

Lepidosperma urophorum

Lomandra longifolia

Eragrostis parviflora

Cyperus lucidus

Schoenoplectus tabernaemontani

Poa australis spp. agg.

Lomandra filiformis

Lachnagrostis filiformis

Cyperus sphaeroideus

Eleocharis acuta

Luzula campestris spp. agg.

Cheilanthes austrotenuifolia

Asplenium flabellifolium

Pellaea falcata s.l.

Clematis microphylla

Pandorea pandorana

Common Name

Burgan

Shiny Cassinia

Long-leaf Wax-flower

Wallaby-bush

Violet Daisy-bush

Nodding Blue-lily

Golden Everlasting

Red Water-milfoil

Forest Nightshade

Trailing Speedwell

Hairy Pennywort

Yellow Wood-sorrel

Kidney-weed

Shining Pennywort

Sieber Crassula

Tailed Rapier-sedge

Spiny-headed Mat-rush

Weeping Love-grass

Leafy Flat-sedge

River Club-sedge

Tussock Grass

Wattle Mat-rush

Common Blown-grass

Globe Kyllinga

Common Spike-sedge

Field Woodrush

Green Rock-fern

Necklace Fern

Sickle Fern

Small-leaved Clematis

Wonga Vine

EVC 19: Riparian Shrubland - East Gippsland Lowlands bioregion

Recruitment:

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

Organic Litter:

20% cover

Logs:

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

Weediness:

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 20: Heathy Dry Forest

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus mannifera</i> ssp. <i>mannifera</i>	Brittle Gum
	<i>Eucalyptus dives</i>	Broad-leaved Peppermint
	<i>Eucalyptus macrorhyncha</i>	Red Stringybark

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	9	30%	MS
Small Shrub	5	10%	SS
Prostrate Shrub	2	5%	PS
Large Herb	3	5%	LH
Medium Herb	8	10%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	5	20%	MTG
Scrambler or Climber	2	1%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		85%	

EVC 20: Heathy Dry Forest - East Gippsland Lowlands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Monotoca scoparia</i>	Prickly Broom-heath
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Brachyloma daphnoides</i>	Daphne Heath
MS	<i>Choretrum pauciflorum</i>	Dwarf Sour-bush
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
SS	<i>Tetralthea bauerifolia</i>	Heath Pink-bells
SS	<i>Acacia gunnii</i>	Ploughshare Wattle
SS	<i>Leucopogon virgatus</i>	Common Beard-heath
PS	<i>Platylobium formosum</i>	Handsome Flat-pea
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Poranthera microphylla</i>	Small Poranthera
MH	<i>Galium gaudichaudii</i>	Rough Bedstraw
MH	<i>Euchiton collinus</i> s.s.	Creeping Cudweed
MTG	<i>Joycea pallida</i>	Silvertop Wallaby-grass
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
EP	<i>Amyema pendula</i>	Drooping Mistletoe
SC	<i>Hardenbergia violacea</i>	Purple Coral-pea

Recruitment:

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

Organic Litter:

20 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Centaureum erythraea</i>	Common Centaury	high	low
MH	<i>Hypochaeris radicata</i>	Cat's Ear	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands 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. Open forest to 25 m tall characterised by the diversity and variability of the eucalypts. The understorey often lacks a secondary tree layer but contains a well-developed medium to low shrub layer. The ground layer is often very sparse with tussock-forming graminoids being the dominant life form.

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus muelleriana</i>	Yellow Stringybark
	<i>Eucalyptus cypellocarpa</i>	Mountain Grey-gum
	<i>Eucalyptus macrorhycha</i>	Red Stringybark
	<i>Eucalyptus consideriana</i>	Yertchuk
	<i>Eucalyptus mannifera</i>	Brittle Gum

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	10%	T
Medium Shrub	6	30%	MS
Small Shrub	2	5%	SS
Medium Herb	5	5%	MH
Large Tufted Graminoid	1	1%	LTG
Large Non-tufted Graminoid	2	10%	LNG
Medium to Small Tufted Graminoid	3	10%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	2	5%	GF
Scrambler or Climber	3	5%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		85%	

EVC 21: Shrubby Dry Forest - East Gippsland Lowlands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Allocasuarina littoralis</i>	Black Sheoak
MS	<i>Leucopogon lanceolatus</i> var. <i>lanceolatus</i>	Lance Beard-heath
MS	<i>Platysace lanceolata</i>	Shrubby Platysace
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Epacris impressa</i>	Common Heath
SS	<i>Hibbertia empetrifolia</i> s.l.	Tangled Guinea-flower
SS	<i>Pimelea humilis</i>	Common Rice-flower
MH	<i>Gonocarpus teucroides</i> s.l.	Germander Raspwort
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Hypericum gramineum</i>	Small St John's Wort
MH	<i>Poranthera microphylla</i>	Small Poranthera
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Dianella caerulea</i> var. <i>caerulea</i>	Paroo Lily
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Billardiera scandens</i>	Common Apple-berry
SC	<i>Glycine clandestina</i>	Twining Glycine
SC	<i>Tylophora barbata</i>	Bearded Tylophora
SC	<i>Clematis aristata</i>	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/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands 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. Grassy Dry Forest is characterised by 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 bridgesiana</i> s.l.	But But
	<i>Eucalyptus consideriana</i>	Yertchuk
	<i>Eucalyptus globulus</i> ssp. <i>pseudoglobulus</i>	Blue Gum

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	7	25%	MS
Small Shrub	3	5%	SS
Prostrate Shrub	1	5%	PS
Large Herb	3	5%	LH
Medium Herb	11	20%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	1	1%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	6	20%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	2	5%	GF
Scrambler or Climber	3	5%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

EVC 22: Grassy Dry Forest - East Gippsland Lowlands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Pultenaea juniperina s.l.</i>	Prickly Bush-pea
MS	<i>Leucopogon lanceolatus var. lanceolatus</i>	Lance Beard-heath
MS	<i>Indigofera australis</i>	Austral Indigo
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Astroloma humifusum</i>	Cranberry Heath
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
MH	<i>Hypericum gramineum</i>	Small St John's Wort
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Opercularia varia</i>	Variable Stinkweed
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Dianella revoluta s.l.</i>	Black-anther Flax-lily
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Billardiera scandens</i>	Common Apple-berry
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Glycine clandestina</i>	Twining Glycine

Recruitment:
Continuous

Organic Litter:
20 % cover

Logs:
20 m/0.1 ha.

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	low
LH	<i>Conyza albida</i>	Tall Fleabane	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Centaurea erythraea</i>	Common Centaury	high	low
MNG	<i>Aira caryophylla</i>	Silvery Hair-grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands 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 low 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 melliodora</i>	Yellow Box
	<i>Eucalyptus angophoroides</i>	Apple Box
	<i>Eucalyptus bosistoana</i>	Coast Grey-box

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	4	10%	MS
Small Shrub	3	5%	SS
Prostrate Shrub	1	5%	PS
Large Herb	4	5%	LH
Medium Herb	13	20%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	1%	LTG
Medium to Small Tufted Graminoid	7	30%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	2	10%	GF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	20%	BL

EVC 23: Herb-rich Foothill Forest - East Gippsland Lowlands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Cassinia aculeata</i>	Common Cassinia
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
SS	<i>Tetradlea bauerifolia</i>	Heath Pink-bells
SS	<i>Platylobium formosum</i>	Handsome Flat-pea
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Poranthera microphylla</i>	Small Poranthera
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Cymbonotus preissianus</i>	Austral Bear's-ear
SH	<i>Chiloglottis gunnii</i> s.l.	Common Bird-orchid
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Dichelachne sciurea</i> spp. agg.	Short-hair Plume-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
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
SC	<i>Glycine clandestina</i>	Twining Glycine
SC	<i>Hardenbergia violacea</i>	Purple Coral-pea

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Rosa rubiginosa</i>	Sweet Briar	high	high
SS	<i>Rubus</i> sp. aff. <i>armeniacus</i>	Blackberry	high	high
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
LH	<i>Sonchus asper</i> s.l.	Rough Sow-thistle	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Centaurea erythraea</i>	Common Centaury	high	low
MH	<i>Trifolium dubium</i>	Suckling Clover	high	low
MH	<i>Cerastium glomeratum</i> s.l.	Common Mouse-ear Chickweed	high	low
MH	<i>Trifolium arvense</i> var. <i>arvense</i>	Hare's-foot Clover	high	low
MNG	<i>Aira caryophylla</i>	Silvery Hair-grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 27: Blackthorn Scrub

Description:

Only found on northerly and westerly slopes of mountains and valleys. Trees are not a prominent feature, often present only as emergents or forming a very open woodland. The small tree or tall shrub layer to 6 m tall is a dominant feature, often forming even-aged stands of uniform height. The ground layer is generally sparse and species-poor due to low site quality and the density of the overstorey. Vines can be conspicuous in the understorey.

Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Acacia silvestris</i>	Red Wattle
	<i>Exocarpos cupressiformis</i>	Cherry Ballart

Understorey:

Life form	#Spp	%Cover	LF code
Medium Shrub	8	40%	MS
Small Shrub	1	1%	SS
Large Herb	2	1%	LH
Medium Herb	3	5%	MH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	3	5%	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
Total understorey projective foliage cover		50%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Philotheca trachyphylla</i>	Rock Wax-flower
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Goodenia ovata</i>	Hop Goodenia
MS	<i>Platysace lanceolata</i>	Shrubby Platysace
MH	<i>Poranthera microphylla</i>	Small Poranthera
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Notodanthonia longifolia</i>	Long-leaf Wallaby-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Asplenium flabellifolium</i>	Necklace Fern
SC	<i>Pandorea pandorana</i>	Wonga Vine
SC	<i>Billardiera scandens</i>	Common Apple-berry

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

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

Weediness:

There are no consistent weeds in this EVC.

EVC 27: Blackthorn Scrub - East Gippsland Lowlands bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 28: Rocky Outcrop Shrubland

Description:

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

Understorey:

Life form	#Spp	%Cover	LF code
Medium Shrub	8	45%	MS
Small Shrub	2	10%	SS
Prostrate Shrub	1	1%	PS
Large Herb	2	5%	LH
Medium Herb	2	5%	MH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	5	10%	MTG
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	20%	BL
Soil Crust	na	10%	S/C

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Exocarpos strictus</i>	Pale-fruit Ballart
MS	<i>Ozothamnus conditus</i>	Pepper Everlasting
MS	<i>Ozothamnus rogersianus</i>	Nunniong Everlasting
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
SS	<i>Pultenaea retusa</i>	Blunt Bush-pea
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Derwentia perfoliata</i>	Digger's Speedwell
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Joycea pallida</i>	Silvertop Wallaby-grass

Recruitment:

Continuous

Organic Litter:

40 % cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low

EVC 28: Rocky Outcrop Shrubland - East Gippsland Lowlands bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 29: Damp Forest

Description:

Grows on a wide range of geologies on well-developed generally colluvial soils on a variety of aspects. Dominated by a tall eucalypt tree layer to 30 m tall over a medium to large dense shrub layer of broad-leaved species typical of wet forest mixed with elements from dry forest types. The ground layer includes herbs and grasses as well as a variety of moisture-dependent ferns.

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus sieberi</i>	Silvertop Ash
	<i>Eucalyptus globoidea</i>	White Stringybark
	<i>Eucalyptus cypellocarpa</i>	Mountain Grey Gum
	<i>Eucalyptus obliqua</i>	Messmate Stringybark
	<i>Eucalyptus muelleriana</i>	Yellow Stringybark

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	3	20%	T
Medium Shrub	8	25%	MS
Small Shrub	3	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	1	1%	LH
Medium Herb	6	10%	MH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	4	5%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	3	15%	GF
Tree Fern	1	5%	TRF
Scrambler or Climber	4	5%	SC
Bryophytes/Lichens	na	20%	BL

EVC 29: Damp Forest - East Gippsland Lowlands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Elaeocarpus reticulatus</i>	Blue Oliveberry
T	<i>Allocasuarina littoralis</i>	Black Sheoak
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Persoonia linearis</i>	Narrow-leaf Geebung
MS	<i>Goodenia ovata</i>	Hop Goodenia
MS	<i>Leucopogon lanceolatus</i> var. <i>lanceolatus</i>	Lance Beard-heath
SS	<i>Hibbertia empetrifolia</i> s.l.	Tangled Guinea-flower
SS	<i>Tetratheca pilosa</i>	Hairy Pink-bells
PS	<i>Platylobium formosum</i>	Handsome Flat-pea
MH	<i>Gonocarpus teucrioides</i> s.l.	Germander Raspwort
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Opercularia aspera</i>	Coarse Stinkweed
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Dianella caerulea</i> var. <i>caerulea</i>	Paroo Lily
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Hierochloa rariflora</i>	Cane Holy-grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Blechnum cartilagineum</i>	Gristle Fern
GF	<i>Calochlaena dubia</i>	Common Ground-fern
TRF	<i>Cyathea australis</i>	Rough Tree-fern
EP	<i>Cassytha phaeolasia</i>	Rusty Dodder-laurel
SC	<i>Billardiera scandens</i>	Common Apple-berry
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Tylophora barbata</i>	Bearded Tylophora

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

East Gippsland Lowlands 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 obliqua</i>	Messmate Stringybark
	<i>Eucalyptus cypellocarpa</i>	Mountain Grey-gum
	<i>Eucalyptus globoidea</i>	White Stringybark
	<i>Eucalyptus viminalis</i>	Manna Gum

Understorey:

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

EVC 30: Wet Forest - East Gippsland Lowlands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Pomaderris aspera</i>	Hazel Pomaderris
T	<i>Acacia dealbata</i>	Silver Wattle
T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Olearia argophylla</i>	Musk Daisy-bush
MS	<i>Goodenia ovata</i>	Hop Goodenia
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Cassinia aculeata</i>	Common Cassinia
MS	<i>Ozothamnus ferrugineus</i>	Tree Everlasting
SS	<i>Rhytidosporum procumbens</i>	White Marianth
LH	<i>Senecio velleioides</i>	Forest Groundsel
LH	<i>Senecio glomeratus</i>	Annual Fireweed
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Gonocarpus teucrioides</i> s.l.	Germander Raspwort
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
SH	<i>Oxalis corniculata</i> s.l.	Yellow Wood-sorrel
SH	<i>Dichondra repens</i>	Kidney-weed
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Cyperus lucidus</i>	Leafy Flat-sedge
LTG	<i>Juncus pallidus</i>	Pale Rush
LTG	<i>Gahnia radula</i>	Thatch Saw-sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Poa australis</i> spp. agg.	Tussock Grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Poa labillardierei</i>	Common Tussock-grass
MTG	<i>Lomandra confertifolia</i> ssp. <i>leptostachya</i>	Slender Mat-rush
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Blechnum cartilagineum</i>	Gristle Fern
GF	<i>Calochlaena dubia</i>	Common Ground-fern
GF	<i>Sticherus lobatus</i>	Spreading Fan-fern
TRF	<i>Cyathea australis</i>	Rough Tree-fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Billardiera scandens</i>	Common Apple-berry
SC	<i>Comesperma volubile</i>	Love Creeper

Recruitment:

Continuous

Organic Litter:

50 % cover

Logs:

30 m/0.1 ha.

Weediness:

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 32: Warm Temperate Rainforest

Description:

Closed forest to 25 m tall occurring along gullies and river flats. Dominated by a range of non-eucalypt canopy species above an understorey of smaller trees and shrubs and usually visually dominated by ferns and climbers.

Large trees:

Species	DBH(cm)	#/ha
Various spp.	70 cm	20 / ha

Tree Canopy Cover:

%cover	Character Species	Common Name
50%	<i>Acacia melanoxylon</i>	Blackwood
	<i>Acmena smithii</i>	Lilly Pilly
	<i>Rapanea howittiana</i>	Muttonwood
	<i>Acronychia oblongifolia</i>	Yellowwood
	<i>Tristaniopsis laurina</i>	Kanooka

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	3	20%	T
Medium Shrub	7	15%	MS
Large Herb	3	5%	LH
Medium Herb	5	10%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	2	1%	MTG
Medium to Tiny Non-tufted Graminoid	2	1%	MNG
Ground Fern	8	30%	GF
Tree Fern	2	15%	TRF
Epiphyte	3	1%	EP
Scrambler or Climber	9	15%	SC
Bryophytes/Lichens	na	20%	BL

EVC 32: Warm Temperate Rainforest - East Gippsland Lowlands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Pomaderris aspera</i>	Hazel Pomaderris
T	<i>Elaeocarpus reticulatus</i>	Blue Oliveberry
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Notelaea venosa</i>	Large Mock-olive
MS	<i>Prostanthera lasianthos</i>	Victorian Christmas-bush
LH	<i>Sigesbeckia orientalis</i> ssp. <i>orientalis</i>	Indian Weed
LH	<i>Urtica incisa</i>	Scrub Nettle
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Sambucus gaudichaudiana</i>	White Elderberry
MH	<i>Stellaria flaccida</i>	Forest Starwort
MH	<i>Solanum prinophyllum</i>	Forest Nightshade
SH	<i>Pyrrosia rupestris</i>	Rock Felt-fern
SH	<i>Dichondra repens</i>	Kidney-weed
LTG	<i>Gahnia melanocarpa</i>	Black-fruit Saw-sedge
LTG	<i>Gahnia clarkei</i>	Tall Saw-sedge
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Carex appressa</i>	Tall Sedge
MTG	<i>Isolepis inundata</i>	Swamp Club-sedge
MNG	<i>Oplismenus hirtellus</i>	Australian Basket-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Blechnum nudum</i>	Fishbone Water-fern
GF	<i>Blechnum patersonii</i> ssp. <i>patersonii</i>	Strap Water-fern
GF	<i>Blechnum cartilagineum</i>	Gristle Fern
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
TRF	<i>Cyathea australis</i>	Rough Tree-fern
EP	<i>Hymenophyllum cupressiforme</i>	Common Filmy Fern
EP	<i>Fieldia australis</i>	Fieldia
EP	<i>Microsorium scandens</i>	Fragrant Fern
EP	<i>Microsorium pustulatum</i> ssp. <i>pustulatum</i>	Kangaroo Fern
SC	<i>Smilax australis</i>	Austral Sarsaparilla
SC	<i>Pandorea pandorana</i>	Wonga Vine
SC	<i>Eustrephus latifolius</i>	Wombat Berry
SC	<i>Cissus hypoglauca</i>	Jungle Grape

Recruitment:

Continuous

Organic Litter:

50 % 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>Conyza</i> spp.	Fleabane	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 34: Dry Rainforest

Description:

Open to closed non-eucalypt low forest or tall shrubland to 15 m tall. Occurs in areas of relatively low rainfall (750-900 mm per annum) and primarily confined to topographic fire refuges most often associated with extensive cliffs, gorges and rock screes on northern and western aspects. Characterised by canopy species that are rain-green (lose leaves during drought).

Large trees:

Species	DBH(cm)	#/ha
Various spp.	60 cm	10 / ha

Tree Canopy Cover:

%cover	Character Species	Common Name
50%	<i>Rapanea howittiana</i>	Mutton-wood
	<i>Pittosporum undulatum</i>	Sweet Pittosporum
	<i>Brachychiton populneus ssp. populneus</i>	Kurrajong

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	3	20%	T
Medium Shrub	9	20%	MS
Large Herb	5	5%	LH
Medium Herb	12	15%	MH
Small or Prostrate Herb	5	5%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	3	5%	MTG
Medium to Tiny Non-tufted Graminoid	3	5%	MNG
Ground Fern	5	10%	GF
Epiphyte	2	1%	EP
Scrambler or Climber	6	10%	SC
Bryophytes/Lichens	na	20%	BL

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Rubus fruticosus</i> spp. agg.	Blackberry	high	high
LH	<i>Solanum nigrum</i> sensu Willis (1972)	Black Nightshade	high	low
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
LH	<i>Conyza</i> spp.	Fleabane	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Gamochaeta purpurea</i> s.l.	Purple Cudweed	high	low
MH	<i>Cerastium glomeratum</i> s.l.	Common Mouse-ear Chickweed	high	low
MH	<i>Polycarpon tetraphyllum</i>	Four-leaved Allseed	high	low
MH	<i>Hypochoeris glabra</i>	Smooth Cat's-ear	high	low
MH	<i>Galium murale</i>	Small Goosegrass	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MTG	<i>Ehrharta erecta</i> var. <i>erecta</i>	Panic Veldt-grass	high	high
MNG	<i>Aira praecox</i>	Early Hair-grass	high	low

EVC 34: Dry Rainforest - East Gippsland Lowlands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia mearnsii</i>	Black Wattle
T	<i>Acacia implexa</i>	Lightwood
T	<i>Acacia falciformis</i>	Pale Hickory Wattle
T	<i>Pittosporum undulatum</i>	Sweet Pittosporum
MS	<i>Olearia lirata</i>	Snowy Daisy-bush
MS	<i>Cassinia trinerva</i>	Three-nerved Cassinia
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Hymenanthera dentata</i>	Tree Violet
LH	<i>Urtica incisa</i>	Scrub Nettle
LH	<i>Sigesbeckia orientalis</i> ssp. <i>orientalis</i>	Indian Weed
LH	<i>Senecio minimus</i>	Shrubby Fireweed
MH	<i>Solanum prinophyllum</i>	Forest Nightshade
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Sambucus gaudichaudiana</i>	White Elderberry
MH	<i>Lobelia anceps</i>	Angled Lobelia
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Hydrocotyle sibthorpioides</i>	Shining Pennywort
SH	<i>Pyrrhosia rupestris</i>	Rock Felt-fern
SH	<i>Oxalis exilis</i>	Shady Wood-sorrel
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Lepidosperma urophorum</i>	Tailed Rapier-sedge
LTG	<i>Gahnia melanocarpa</i>	Black-fruit Saw-sedge
LTG	<i>Cymbopogon refractus</i>	Barb-wire Grass
MTG	<i>Notodanthonia longifolia</i>	Long-leaf Wallaby-grass
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Echinopogon ovatus</i>	Common Hedgehog-grass
MNG	<i>Oplismenus hirtellus</i>	Australian Basket-grass
MNG	<i>Entolasia marginata</i>	Bordered Panic
GF	<i>Pteris tremula</i>	Tender Brake
GF	<i>Asplenium flabellifolium</i>	Necklace Fern
GF	<i>Doodia australis</i>	Common Rasp-fern
GF	<i>Cheilanthes austrotenuifolia</i>	Green Rock-fern
EP	<i>Cassytha phaeolasia</i>	Rusty Dodder-laurel
SC	<i>Eustrephus latifolius</i>	Wombat Berry
SC	<i>Celastrus australis</i>	Staff Climber
SC	<i>Geitnoplesium cymosum</i>	Scrambling Lily
SC	<i>Marsdenia rostrata</i>	Milk Vine

Recruitment:

Continuous

Organic Litter:

50 % cover

Logs:

10 m/0.1 ha.

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 47: Valley Grassy Forest

Description:

Valley Grassy Forest occurs under moderate rainfall regimes of 700-800 mm per annum on fertile well-drained colluvial or alluvial soils on gently undulating lower slopes and valley floors. Open forest to 25 m tall that may carry a variety of eucalypts, which prefer more moist or more fertile conditions over a sparse shrub cover. In season, a rich array of herbs, lilies, grasses and sedges dominate the ground layer but at the drier end of the spectrum the ground layer may be sparse and slightly less diverse, but with the moisture-loving species still remaining.

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
20% r	<i>Eucalyptus bosistoana</i>	Coast Grey-box
	<i>Eucalyptus muelleriana</i>	Yellow Stringybark

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	3	10%	T
Medium Shrub	9	20%	MS
Small Shrub	3	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	3	5%	LH
Medium Herb	17	20%	MH
Small or Prostrate Herb	4	5%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	2	5%	LNG
Medium to Small Tufted Graminoid	7	20%	MTG
Medium to Tiny Non-tufted Graminoid	4	15%	MNG
Ground Fern	3	5%	GF
Scrambler or Climber	6	5%	SC
Bryophytes/Lichens	na	20%	BL

EVC 47: Valley Grassy Forest - East Gippsland Lowlands bioregion

LF Code	Species typical of at least part of EVC rang	Common Name
T	<i>Acacia mearnsii</i>	Black Wattle
T	<i>Allocasuarina littoralis</i>	Black Sheoak
MS	<i>Leucopogon lanceolatus</i> var. <i>lanceolatus</i>	Lance Beard-heath
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Kunzea ericoides</i>	Burgan
SS	<i>Tetralochea pilosa</i>	Hairy Pink-bells
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Pultenaea retusa</i>	Blunt Bush-pea
SS	<i>Lissanthe strigosa</i> ssp. <i>subulata</i>	Peach Heath
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Solanum pungetium</i>	Eastern Nightshade
LH	<i>Urtica incisa</i>	Scrub Nettle
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Wahlenbergia gracilis</i> s.l.	Sprawling Bluebell
MH	<i>Opercularia aspera</i>	Coarse Stinkweed
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Euchiton collinus</i> s.s.	Creeping Cudweed
SH	<i>Galium propinquum</i>	Maori Bedstraw
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Desmodium gunnii</i>	Southern Tick-trefoil
SH	<i>Hypericum japonicum</i>	Matted St John's Wort
LTG	<i>Lomandra longifolia</i> ssp. <i>exilis</i>	Cluster-headed Mat-rush
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
LNG	<i>Lepidosperma longitudinale</i>	Pithy Sword-sedge
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Dianella caerulea</i> var. <i>caerulea</i>	Paroo Lily
MNG	<i>Poa tenera</i>	Slender Tussock-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Echinopogon ovatus</i>	Common Hedgehog-grass
MNG	<i>Oplismenus hirtellus</i>	Australian Basket-grass
GF	<i>Adiantum aethiopicum</i>	Common Maidenhair
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Doodia aspera</i>	Prickly Rasp-fern
GF	<i>Pellaea falcata</i> s.l.	Sickle Fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
EP	<i>Hymenophyllum cupressiforme</i>	Common Filmy Fern
SC	<i>Comesperma volubile</i>	Love Creeper
SC	<i>Glycine clandestina</i>	Twining Glycine
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Billardiera scandens</i>	Common Apple-berry

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Centaurea erythraea</i>	Common Centaury	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands 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.	50 cm	15 / ha
<i>Banksia serrata</i>	40 cm	

Tree Canopy Cover:

%cover	Character Species	Common Name
10%	<i>Eucalyptus willisii</i>	Jimmy's Shining Peppermint
	<i>Eucalyptus obliqua</i>	Messmate Stringybark
	<i>Eucalyptus radiata</i> s.l.	Narrow-leaf Peppermint
	<i>Eucalyptus viminalis</i> ssp. <i>pryoriana</i>	Rough-barked Manna Gum
	<i>Banksia serrata</i>	Saw Banksia

Understorey:

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

LF Code

Species typical of at least part of EVC range

Common Name

MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Leptospermum myrsinoides</i>	Heath Tea-tree
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Monotoca scoparia</i>	Prickly Broom-heath
SS	<i>Amperea xiphoclada</i> var. <i>xiphoclada</i>	Broom Spurge
SS	<i>Leucopogon virgatus</i>	Common Beard-heath
SS	<i>Dillwynia glaberrima</i>	Smooth Parrot-pea
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
MNG	<i>Hypolaena fastigiata</i>	Tassel Rope-rush
SC	<i>Cassytha glabella</i>	Slender Dodder-laurel

EVC 48: Heathy Woodland – East Gippsland Lowlands bioregion

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

East Gippsland Lowlands 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 higher nutrient availability. The EVC is dominated by Swamp Paperbark *Melaleuca ericifolia* (or sometimes Woolly Tea-tree *Leptospermum lanigerum*) which often forms a dense thicket, out-competing other species. Occasional emergent eucalypts may be present. Where light penetrates to ground level, a moss/lichen/liverwort or herbaceous ground cover is often present. Dry variants have a grassy/herbaceous ground layer.

Canopy Cover:

%cover	Character Species	Common Name
50%	<i>Leptospermum lanigerum</i> <i>Melaleuca ericifolia</i>	Woolly Tea-tree Swamp Paperbark

Understorey:

Life form	#Spp	%Cover	LF code
Medium Shrub	2	10%	MS
Small Shrub	2	1%	SS
Large Herb	2	5%	LH
Medium Herb	3	15%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	2	10%	LTG
Large Non-tufted Graminoid	3	10%	LNG
Medium to Small Tufted Graminoid	2	5%	MTG
Medium to Tiny Non-tufted Graminoid	2	15%	MNG
Ground Fern	1	5%	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>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>Poa labillardierei</i>	Common Tussock-grass
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
LNG	<i>Phragmites australis</i>	Common Reed
LNG	<i>Baumea rubiginosa</i> s.l.	Soft Twig-rush
MTG	<i>Triglochin procerum</i> s.l.	Water Ribbons
MTG	<i>Juncus gregiflorus</i>	Green Rush
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 – East Gippsland Lowlands bioregion

Recruitment:

Continuous

Organic Litter:

40 % cover

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

East Gippsland Lowlands Bioregion

EVC 53_62: Estuarine Swamp Scrub

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%	<i>Melaleuca ericifolia</i>	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	<i>Atriplex cinerea</i>	Coast Saltbush
MS	<i>Rhagodia candolleana</i> subsp. <i>candolleana</i>	Seaberry Saltbush
MH	<i>Chenopodium glaucum</i>	Glaucous Goosefoot
MH	<i>Samolus repens</i>	Creeping Brookweed
MH	<i>Sarcocornia quinqueflora</i>	Beaded Glasswort
SH	<i>Apium prostratum</i> subsp. <i>prostratum</i>	Sea Celery
SH	<i>Selliera radicans</i>	Shiny Swamp-mat
MTG	<i>Poa labillardierei</i>	Common Tussock-grass
MTG	<i>Poa poiformis</i>	Coast Tussock-grass
MNG	<i>Distichlis distichophylla</i>	Australian Salt-grass
MNG	<i>Ficinia nodosa</i>	Knobby Club-sedge

Recruitment:

Continuous.

Organic Litter:

20 % cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high

EVC 53_62: Estuarine Swamp Scrub

Weediness:				
LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low

EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 55: Plains Grassy Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus tereticornis</i> ssp. <i>mediana</i>	Gippsland Red-gum

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
Small Shrub	1	1%	SS
Prostrate Shrub	1	1%	PS
Large Herb	1	5%	LH
Medium Herb	10	20%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	10%	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

Species typical of at least part of EVC range

Common Name

T	<i>Allocasuarina littoralis</i>	Black Sheoak
MS	<i>Kunzea ericoides</i>	Burgan
SS	<i>Pimelea humilis</i>	Common Rice-flower
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
MH	<i>Hypericum gramineum</i>	Small St John's Wort
MH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Poranthera microphylla</i>	Small Poranthera
LTG	<i>Austrostipa rudis</i>	Veined Spear-grass
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Carex breviculmis</i>	Common Grass-sedge
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass

EVC 55: Plains Grassy Woodland – East Gippsland Lowlands bioregion

Recruitment:

Continuous

Organic Litter:

10 % cover

Logs:

10 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Plantago lanceolata</i>	Ribwort	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Centaureum erythraea</i>	Common Centaury	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high
MNG	<i>Romulea rosea</i>	Onion Grass	high	low
MNG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MNG	<i>Briza minor</i>	Lesser Quaking-grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 82: Riverine Escarpment Scrub

Description:

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

Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Brachychiton populneus</i> ssp. <i>populneus</i> <i>Pittosporum undulatum</i>	Kurrajong Sweet Pittosporum

Understorey:

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

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Cassinia trinerva</i>	Three-nerved Cassinia
MS	<i>Kunzea ericoides</i>	Burgan
MS	<i>Hymenanthera dentata</i> s.l.	Tree Violet
MS	<i>Olearia phlogopappa</i>	Dusty Daisy-bush
SS	k <i>Leucopogon juniperinus</i>	Long-flower Beard-heath
LH	<i>Plectranthus parviflorus</i>	Cockspur Flower
LH	<i>Stypandra glauca</i>	Nodding Blue-lily
LH	<i>Solanum pungetium</i>	Eastern Nightshade
MH	<i>Cynoglossum australe</i>	Australian Hound's-tongue
MH	<i>Hypericum gramineum</i>	Small St John's Wort
MH	<i>Galium gaudichaudii</i>	Rough Bedstraw
MH	<i>Senecio hispidulus</i> var. <i>dissectus</i>	Rough Fireweed
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Dichondra repens</i>	Kidney-weed
LTG	<i>Gahnia melanocarpa</i>	Black-fruit Saw-sedge
LTG	<i>Carex longibrachiata</i>	Bergalia Tussock
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Notodanthonia longifolia</i>	Long-leaf Wallaby-grass
MTG	k <i>Elymus multiflorus</i>	Short-awned Wheat-grass
MTG	<i>Carex breviculmis</i>	Common Grass-sedge
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Entolasia marginata</i>	Bordered Panic
GF	<i>Pellaea falcata</i> s.l.	Sickle Fern
GF	<i>Cheilanthes austrotenuifolia</i>	Green Rock-fern
SC	<i>Marsdenia rostrata</i>	Milk Vine
SC	<i>Pandorea pandorana</i>	Wonga Vine
SC	<i>Glycine clandestina</i>	Twining Glycine
SC	<i>Clematis glycinoides</i> var. <i>glycinoides</i>	Forest Clematis

EVC 82: Riverine Escarpment Scrub - East Gippsland Lowlands bioregion

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

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

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Lycium ferocissimum</i>	African Box-thorn	low	high
MS	<i>Rubus fruticosus</i> spp. agg.	Blackberry	high	high
LH	<i>Solanum nigrum sensu Willis (1972)</i>	Black Nightshade	high	low
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	low
MH	<i>Euphorbia peplus</i>	Petty Spurge	high	low
MH	<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	Hairy Hawkbit	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Euphorbia lathyrus</i>	Caper Spurge	high	high
SC	<i>Galium aparine</i>	Cleavers	high	low
LH	<i>Conyza</i> spp.	Fleabane	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 133: Limestone Pomaderris Shrubland

Description:

Shrubland to 8 m tall occurring on exposed northern or western aspects associated with limestone cliffs and lake shores or rivers with an understorey dominated by medium shrubs. It is found at low altitudes of between 10-30 m above sea level and receives a moderate rainfall of approximately 700 mm per annum.

Canopy Cover:

%cover	Character Species	Common Name
10%	<i>Allocasuarina verticillata</i>	Drooping Sheoak
	<i>Banksia marginata</i>	Silver Banksia

Understorey:

Life form	#Spp	%Cover	LF code
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	7	45%	MS
Small Shrub	2	1%	SS
Large Herb	5	5%	LH
Medium Herb	10	15%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	7	20%	MTG
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	<i>Dodonaea viscosa</i>	Sticky Hop-bush
MS	<i>Myoporum insulare</i>	Boobialla
MS	R r <i>Pomaderris oraria</i> ssp. <i>calicicola</i>	Limestone Pomaderris
MS	R r <i>Pomaderris oraria</i>	Bassian Pomaderris
SS	<i>Rhagodia candolleana</i> ssp. <i>candolleana</i>	Sea-berry Saltbush
SS	<i>Correa reflexa</i>	Common Correa
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Wahlenbergia gracilis</i> s.l.	Sprawling Bluebell
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
MH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
MH	<i>Daucus glochidiatus</i>	Australian Carrot
MH	<i>Galium migrans</i>	Wandering Bedstraw
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Cymbonotus preissianus</i>	Austral Bear's-ear
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Austrostipa nodosa</i>	Knotty Spear-grass
LTG	<i>Austrostipa blackii</i>	Crested Spear-grass
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Elymus scaber</i> var. <i>scaber</i>	Common Wheat-grass
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MTG	<i>Notodanthonia longifolia</i>	Long-leaf Wallaby-grass
GF	<i>Pleurosorus rutifolius</i> s.l.	Blanket Fern
SC	<i>Clematis microphylla</i>	Small-leaved Clematis
SC	<i>Tetragonia implexicoma</i>	Bower Spinach

EVC 133: Limestone Pomaderris Shrubland - East Gippsland Lowlands bioregion

Recruitment:

Continuous

Organic Litter:

40 % cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Rosa rubiginosa</i>	Sweet Briar	low	high
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
LH	<i>Centaureum tenuiflorum</i>	Slender Centaury	high	low
MH	<i>Centaureum erythraea</i>	Common Centaury	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MH	<i>Taraxacum officinale</i> spp. agg.	Garden Dandelion	high	low
MH	<i>Galium murale</i>	Small Goosegrass	high	low
MH	<i>Petrorhagia velutina</i>	Velvety Pink	high	low
MH	<i>Cardamine hirsuta</i> s.l.	Common Bitter-cress	high	low
MH	<i>Stellaria media</i>	Chickweed	high	low
MH	<i>Veronica persica</i>	Persian Speedwell	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MTG	<i>Catapodium rigidum</i>	Fern Grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 135: Gallery Rainforest

Description:

Closed forest to 20 m tall occurring along the fringes of substantial streams that periodically flood. The understorey comprises a number of willow shrubs that can withstand flooding while mature woody vines are generally absent as are tree-ferns, these life-forms being swept away during floods.

Large trees:

Species	DBH(cm)	#/ha
Various spp.	70 cm	20 / ha

Tree Canopy Cover:

%cover	Character Species	Common Name
50%	<i>Tristaniopsis laurina</i>	Kanooka
	<i>Acacia melanoxylon</i>	Blackwood

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	4	20%	T
Medium Shrub	12	30%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	1	1%	LH
Medium Herb	6	10%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	4	15%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	4	5%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	6	20%	GF
Tree Fern	1	1%	TRF
Epiphyte	2	5%	EP
Scrambler or Climber	8	10%	SC
Bryophytes/Lichens	na	20%	BL

EVC 135: Gallery Rainforest - East Gippsland Lowlands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Elaeocarpus reticulatus</i>	Blue Oliveberry
T	<i>Rapanea howittiana</i>	Mutton-wood
MS	<i>Notelaea venosa</i>	Large Mock-olive
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Lomatia myricoides</i>	River Lomatia
MS	<i>Leucopogon lanceolatus</i> var. <i>lanceolatus</i>	Lance Beard-heath
PS	<i>Platylobium formosum</i>	Handsome Flat-pea
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Geranium potentilloides</i>	Cinquefoil Cranesbill
MH	<i>Gratiola peruviana</i>	Austral Brooklime
MH	<i>Opercularia aspera</i>	Coarse Stinkweed
SH	<i>Dichondra repens</i>	Kidney-weed
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LTG	<i>Gahnia clarkei</i>	Tall Saw-sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Dianella caerulea</i> var. <i>caerulea</i>	Paroo Lily
MTG	<i>Isolepis inundata</i>	Swamp Club-sedge
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Oplismenus hirtellus</i>	Australian Basket-grass
GF	<i>Blechnum nudum</i>	Fishbone Water-fern
GF	<i>Adiantum aethiopicum</i>	Common Maidenhair
GF	<i>Calochlaena dubia</i>	Common Ground-fern
GF	<i>Blechnum cartilagineum</i>	Gristle Fern
TRF	<i>Cyathea australis</i>	Rough Tree-fern
EP	<i>Hymenophyllum cupressiforme</i>	Common Filmy Fern
SC	<i>Eustrephus latifolius</i>	Wombat Berry
SC	<i>Smilax australis</i>	Austral Sarsaparilla
SC	<i>Tylophora barbata</i>	Bearded Tylophora
SC	<i>Clematis aristata</i>	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	<i>Coryza</i> spp.	Fleabane	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 141: Sandy Flood Scrub

Description:

Structurally dominated by medium to large shrubs to 8 m tall with occasional eucalypt emergents. The understorey may contain a range of shrubs, grasses/sedges and herbs/ferns depending on location and period of inundation. Occupies alluvial terraces with coarse to fine sandy soils of permanent streams and rivers.

Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Leptospermum continentale</i>	Prickly Tea-tree
	<i>Kunzea ericoides</i>	Burgan
	<i>Pomaderris aspera</i>	Hazel Pomaderris
	<i>Acacia mearnsii</i>	Black Wattle

Understorey:

Life form	#Spp	%Cover	LF code
Medium Shrub	3	15%	MS
Small Shrub	1	1%	SS
Medium Herb	2	5%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	3	15%	LTG
Large Non-tufted Graminoid	1	10%	LNG
Medium to Small Tufted Graminoid	1	1%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	1	5%	GF
Bryophytes/Lichens	na	20%	BL
Total understorey projective foliage cover		70%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Monotoca scoparia</i>	Prickly Broom-heath
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Callistemon citrinus</i>	Crimson Bottlebrush
SS	<i>Hibbertia fasciculata</i> var. <i>prostrata</i>	Bundled Guinea-flower
MH	<i>Phyllanthus hirtellus</i>	Thyme Spurge
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
LTG	<i>Carex appressa</i>	Tall Sedge
LNG	<i>Lepidosperma longitudinale</i>	Pithy Sword-sedge
MNG	<i>Caustis flexuosa</i>	Curly Wig
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
TTG	<i>Centrolepis strigosa</i> ssp. <i>strigosa</i>	Hairy Centrolepis
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Adiantum aethiopicum</i>	Common Maidenhair

Recruitment:

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

Organic Litter:

10 % cover

Logs:

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

Weediness:

There are no consistent weeds in this EVC.

EVC 141: Sandy Flood Scrub – East Gippsland Lowlands bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 151: Plains Grassy Forest

Description:

Open forest to 20 m tall often above a heathy shrub layer and a diverse grassy, sedgy and herbaceous ground layer. Occurs on lowland plains and old river terraces made up of gravelly sandy clays.

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 muelleriana</i>	Yellow Stringybark
	<i>Eucalyptus bridgesiana</i> s.l.	But But
	<i>Eucalyptus polyanthemus</i>	Red Box
	<i>Eucalyptus macrorhyncha</i>	Red Stringybark
	<i>Eucalyptus botryoides</i>	Southern Mahogany
	<i>Eucalyptus globoidea</i>	White Stringybark

Understorey:

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

EVC 151: Plains Grassy Forest – East Gippsland Lowlands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Allocasuarina littoralis</i>	Black Sheoak
T	<i>Acacia mearnsii</i>	Black Wattle
T	<i>Acacia implexa</i>	Lightwood
T	<i>Exocarpos cupressiformis</i>	Cherry Ballart
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Banksia marginata</i>	Silver Banksia
MS	<i>Kunzea ericoides</i>	Burgan
MS	<i>Melaleuca parvistaminea</i>	Rough-barked Honey-myrtle
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Hibbertia riparia</i>	Erect Guinea-flower
SS	<i>Platylobium obtusangulum</i>	Common Flat-pea
SS	<i>Phyllanthus hirtellus</i>	Thyme Spurge
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Tricoryne elatior</i>	Yellow Rush-lily
LH	<i>Wahlenbergia gracilis</i> s.l.	Sprawling Bluebell
MH	<i>Poranthera microphylla</i>	Small Poranthera
MH	<i>Hypericum gramineum</i>	Small St John's Wort
MH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Oxalis corniculata</i> s.l.	Yellow Wood-sorrel
SH	<i>Opercularia varia</i>	Variable Stinkweed
LTG	<i>Xanthorrhoea minor</i> ssp. <i>lutea</i>	Small Grass-tree
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Poa australis</i> spp. agg.	Tussock Grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Entolasia marginata</i>	Bordered Panic
GF	<i>Pteridium esculentum</i>	Austral Bracken

Recruitment:
Continuous

Organic Litter:
20 % cover

Logs:
20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Centaurium tenuiflorum</i>	Slender Centaury	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Centaurium erythraea</i>	Common Centaury	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 169: Dry Valley Forest

Description:

Open eucalypt forest to 20 m tall occurring along minor gullies, ephemeral streams and river flats. The overstorey may contain a range of eucalypts typical of drier environments over an understorey of scattered shrubs and a notably mossy herb-rich groundcover.

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 baueriana</i>	Blue Box

Understorey:

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

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Exocarpos cupressiformis</i>	Cherry Ballart
T	<i>Pomaderris aspera</i>	Hazel Pomaderris
MS	<i>Olearia lirata</i>	Snowy Daisy-bush
MS	<i>Melaleuca ericifolia</i>	Swamp Paperbark
MS	<i>Correa reflexa</i>	Common Correa
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
MH	<i>Geranium potentilloides</i>	Cinquefoil Cranesbill
MH	<i>Galium gaudichaudii</i>	Rough Bedstraw
SH	<i>Opecularia hispida</i>	Hairy Stinkweed
SH	<i>Oxalis corniculata s.l.</i>	Yellow Wood-sorrel
SH	<i>Hydrocotyle tripartita</i>	Slender Pennywort
SH	<i>Dichondra repens</i>	Kidney-weed
LTG	<i>Gahnia clarkei</i>	Tall Saw-sedge
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
MNG	<i>Luzula campestris spp. agg.</i>	Field Woodrush
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Pellaea falcata s.l.</i>	Sickle Fern
GF	<i>Asplenium flabellifolium</i>	Necklace Fern
SC	<i>Smilax australis</i>	Austral Sarsaparilla
SC	<i>Eustrephus latifolius</i>	Wombat Berry
SC	<i>Clematis aristata</i>	Mountain Clematis

EVC 169: Dry Valley Forest - East Gippsland Lowlands bioregion

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
MH	<i>Cerastium glomeratum s.l.</i>	Common Mouse-ear Chickweed	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Polycarpon tetraphyllum</i>	Four-leaved Allseed	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 175.61: *Rainshadow* Grassy Woodland

Description:

A variable open eucalypt woodland to 15m 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

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus albens</i>	White Box

Understorey:

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

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia mearnsii</i>	Black Wattle
T	<i>Acacia implexa</i>	Lightwood
T	<i>Brachychiton populneus</i> ssp. <i>populneus</i>	Kurrajong
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Kunzea ericoides</i>	Burgan
MS	<i>Ozothamnus conditus</i>	Pepper Everlasting
MS	<i>Indigofera australis</i>	Austral Indigo
SS	<i>Lissanthe strigosa</i> ssp. <i>subulata</i>	Peach Heath
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Wahlenbergia gracilis</i> s.l.	Sprawling Bluebell
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
MH	<i>Hypericum gramineum</i>	Small St John's Wort
MH	<i>Stellaria pungens</i>	Prickly Starwort
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Cymbonotus preissianus</i>	Austral Bear's-ear
MTG	<i>Carex breviculmis</i>	Common Grass-sedge
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Elymus scaber</i> var. <i>scaber</i>	Common Wheat-grass
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
GF	<i>Cheilanthes austrotenuifolia</i>	Green Rock-fern
SC	<i>Clematis microphylla</i>	Small-leaved Clematis
SC	<i>Glycine clandestina</i>	Twining Glycine
SC	<i>Glycine tabacina</i> s.l.	Variable Glycine

EVC 175.61: *Rainshadow* Grassy Woodland - East Gippsland Lowlands bioregion

Recruitment:
Continuous

Organic Litter:
20 % cover

Logs:
15 m/0.1 ha.

Weediness:				
LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Rosa rubiginosa</i>	Sweet Briar	low	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Centaureum erythraea</i>	Common Centaury	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 175.62: *Limestone Grassy Woodland*

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus melliodora</i>	Yellow Box
	<i>Eucalyptus mannifera</i> ssp. <i>mannifera</i>	Brittle Gum

Understorey:

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

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia mearnsii</i>	Black Wattle
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Hymenanthera dentata</i> s.l.	Tree Violet
MS	<i>Bursaria spinosa</i> ssp. <i>spinosa</i>	Sweet Bursaria
MS	<i>Kunzea ericoides</i>	Burgan
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Wahlenbergia gracilis</i> s.l.	Sprawling Bluebell
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
MH	<i>Hypericum gramineum</i>	Small St John's Wort
MH	<i>Acaena echinata</i>	Sheep's-burr
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
MH	<i>Oxalis perennans</i>	Grassland Wood-sorrel
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Dichondra repens</i>	Kidneyweed
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
MTG	<i>Carex breviculmis</i>	Common Grass-sedge
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Bothriochloa macra</i>	Red-leg Grass
MTG	<i>Elymus scaber</i> var. <i>scaber</i>	Common Wheat-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Echinopogon ovatus</i>	Hedgehog Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Clematis microphylla</i>	Small-leaved Clematis
SC	<i>Glycine clandestina</i>	Twining Glycine

EVC 175.62: *Limestone* Grassy Woodland – East Gippsland Lowlands bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Rosa rubiginosa</i>	Sweet Briar	low	high
MS	<i>Rubus fruticosus</i> spp. agg.	Blackberry	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Centaureum erythraea</i>	Common Centaury	high	low
MH	<i>Plantago lanceolata</i>	Ribwort	high	low
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 177: Valley Slopes Dry Forest

Description:

Open eucalypt forest to 20 m tall. Occurs on steep, eroding slopes. Soils are skeletal though fertile and well-drained, with occasional rock outcropping which constantly erodes and falls into the river where it undercuts steep slopes. The unconsolidated soils are partially due to low biomass in the vegetation, which does little to bind the soil. This EVC carries a mixture of wet and dry species as river fogs and river margins provide increased moisture and hence the understorey consists of a mix of species common to both drier and wetter sites that do not usually occur together.

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 polyanthemos</i>	Red Box
	<i>Eucalyptus melliodora</i>	Yellow Box
	<i>Eucalyptus elata</i>	River Peppermint

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	15%	T
Medium Shrub	5	20%	MS
Prostrate Shrub	1	5%	PS
Large Herb	1	5%	LH
Medium Herb	3	10%	MH
Small or Prostrate Herb	1	5%	SH
Medium to Small Tufted Graminoid	3	10%	MTG
Medium to Tiny Non-tufted Graminoid	1	5%	MNG
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL
Total understorey projective foliage cover		50%	

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Exocarpos cupressiformis</i>	Cherry Ballart
T	<i>Acacia silvestris</i>	Red Wattle
MS	<i>Phyllanthus gunnii</i>	Shrubby Spurge
MS	<i>Philothea trachyphylla</i>	Rock Wax-flower
MS	<i>Hymenanthera dentata</i> s.l.	Tree Violet
MS	<i>Cassinia trinerva</i>	Three-nerved Cassinia
PS	<i>Xanthosia dissecta</i> s.l.	Cut-leaf Xanthosia
LH	<i>Plectranthus parviflorus</i>	Cockspur Flower
MH	<i>Stellaria flaccida</i>	Forest Starwort
MH	<i>Rumex brownii</i>	Slender Dock
MH	<i>Einadia hastata</i>	Saloop
SH	<i>Oxalis chnoodes</i>	Plains Wood-sorrel
MTG	<i>Notodanthonia longifolia</i>	Long-leaf Wallaby-grass
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Poa sieberiana</i> var. <i>sieberiana</i>	Grey Tussock-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
SC	k <i>Clematis microphylla</i> var. <i>leptophylla</i>	Skeleton Vine
SC	<i>Marsdenia rostrata</i>	Milk Vine

EVC 177: Valley Slopes Dry Forest - East Gippsland Lowlands bioregion

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
SS	<i>Rubus</i> sp. aff. <i>armeniacus</i>	Blackberry	high	high
LH	<i>Sonchus asper</i> s.l.	Rough Sow-thistle	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Moenchia erecta</i>	Erect Chickweed	high	low
MH	<i>Cerastium glomeratum</i> s.l.	Common Mouse-ear Chickweed	high	low
MH	<i>Aphanes arvensis</i>	Parsley Piert	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MNG	<i>Aira cupaniana</i>	Quicksilver Grass	high	low
MNG	<i>Aira caryophylla</i>	Silvery Hair-grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 191: Riparian Scrub

Description:

A dense shrubland to 6 m tall with occasional eucalypt emergents growing on waterlogged substrates often with a peaty surface horizon. Emergent eucalypts may be occasionally present. The understorey is often species-poor and consists typically of sedges tolerant of seasonal waterlogging. Occurs along creeks and minor stream tributaries of the lowland plains.

Canopy Cover:

%cover	Character Species	Common Name
60%	<i>Melaleuca squarrosa</i>	Scented Paperbark
	<i>Leptospermum continentale</i>	Prickly Tea-tree

Understorey:

Life form	#Spp	%Cover	LF code
Medium Shrub	3	10%	MS
Small Shrub	1	1%	SS
Medium Herb	1	1%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	1	10%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	1	1%	MTG
Medium to Tiny Non-tufted Graminoid	3	15%	MNG
Ground Fern	1	5%	GF
Scrambler or Climber	2	15%	SC
Bryophytes/Lichens	na	20%	BL
Total understorey projective foliage cover		80%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Ozothamnus ferrugineus</i>	Tree Everlasting
MS	<i>Acacia verticillata</i>	Prickly Moses
MS	<i>Ozothamnus rosmarinifolius</i>	Rosemary Everlasting
SS	<i>Amperea xiphoclada</i> var. <i>xiphoclada</i>	Broom Spurge
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Selaginella uliginosa</i>	Swamp Selaginella
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LNG	<i>Lepidosperma longitudinale</i>	Pithy Sword-sedge
MNG	<i>Baumea tetragona</i>	Square Twig-rush
MNG	<i>Schoenus brevifolius</i>	Zig-zag Bog-sedge
MNG	<i>Empodisma minus</i>	Spreading Rope-rush
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Gleichenia microphylla</i>	Scrambling Coral-fern
SC	<i>Billardiera scandens</i>	Common Apple-berry
SC	<i>Cassytha glabella</i>	Slender Dodder-laurel

Recruitment:

Continuous

Organic Litter:

40 % cover

Weediness:

There are no consistent weeds in this EVC.

EVC 191: Riparian Scrub – East Gippsland Lowlands bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 316: Shrubby Damp Forest

Description:

Grows in gullies and on protected slopes on relatively skeletal but fertile sedimentary soils. Eucalypt forest to 30 m tall with a dense mid stratum comprised of medium to large shrubs characteristic of both drier and damper environments. The ground layer has a sparse cover of grasses and herbs, and commonly includes Austral Bracken.

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 cypellocarpa</i>	Mountain Grey-gum
	<i>Eucalyptus obliqua</i>	Messmate Stringybark

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	3	20%	T
Medium Shrub	8	30%	MS
Small Shrub	2	5%	SS
Large Herb	4	10%	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	1	1%	MNG
Ground Fern	2	15%	GF
Tree Fern	1	1%	TRF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	20%	BL

EVC 316: Shrubby Damp Forest - East Gippsland Lowlands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
T	<i>Pomaderris aspera</i>	Hazel Pomaderris
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Pimelea axiflora</i>	Bootlace Bush
MS	<i>Olearia lirata</i>	Snowy Daisy-bush
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
LH	<i>Stypandra glauca</i>	Nodding Blue-lily
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
LH	<i>Senecio linearifolius</i>	Fireweed Groundsel
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Poa australis</i> spp. agg.	Tussock Grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Billardiera scandens</i>	Common Apple-berry

Recruitment:

Continuous

Organic Litter:

50 % cover

Logs:

30 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Cerastium glomeratum</i> s.l.	Common Mouse-ear Chickweed	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands 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
Total understorey projective foliage cover		60%	

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 – East Gippsland Lowlands bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 877: Lowland Herb-rich Forest

Description:

Primarily occurs in gullies and along lower slopes close to minor drainage lines. Soils are reasonably fertile colluvial loams. Open eucalypt forest to 20 m tall with a range of medium shrubs conspicuous in the mid-stratum. The ground layer is dominated by a dense cover of grasses and a high diversity of tussock-forming graminoids and herbs.

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus cypellocarpa</i>	Mountain Grey-gum
	<i>Eucalyptus globoidea</i>	White Stringybark
	<i>Eucalyptus polyanthemus</i>	Red Box

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	3	10%	T
Medium Shrub	4	20%	MS
Small Shrub	1	1%	SS
Prostrate Shrub	1	5%	PS
Large Herb	2	5%	LH
Medium Herb	13	30%	MH
Small or Prostrate Herb	4	5%	SH
Large Non-tufted Graminoid	1	15%	LTG
Medium to Small Tufted Graminoid	5	5%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
Bryophytes/Lichens	na	10%	BL

EVC 877: Lowland Herb-rich Forest - East Gippsland Lowlands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia mearnsii</i>	Black Wattle
MS	r <i>Zieria smithii</i>	Sandfly Zieria
MS	<i>Kunzea ericoides</i>	Burgan
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Cassinia aculeata</i>	Common Cassinia
MS	<i>Melaleuca parvistaminea</i>	Rough-barked Honey-myrtle
SS	<i>Pimelea humilis</i>	Common Rice-flower
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
LH	<i>Stypandra glauca</i>	Nodding Blue-lily
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
MH	<i>Hypericum gramineum</i>	Small St John's Wort
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
MH	<i>Pterostylis concinna</i>	Trim Greenhood
SH	<i>Opercularia varia</i>	Variable Stinkweed
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Oxalis exilis</i>	Shady Wood-sorrel
SH	<i>Dichondra repens</i>	Kidney-weed
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Luzula meridionalis</i>	Common Woodrush
MTG	<i>Lomandra filiformis ssp. coriacea</i>	Wattle Mat-rush
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Dianella caerulea var. caerulea</i>	Paroo Lily
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
MNG	<i>Entolasia marginata</i>	Bordered Panic
SC	<i>Comesperma volubile</i>	Love Creeper

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Rubus fruticosus spp. agg.</i>	Blackberry	high	high
LH	<i>Conyza bonariensis</i>	Flaxleaf Fleabane	high	low
LH	<i>Centaureum tenuiflorum</i>	Slender Centaury	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	low
MH	<i>Cerastium glomeratum s.l.</i>	Common Mouse-ear Chickweed	high	low
SH	<i>Trifolium repens var. repens</i>	White Clover	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Lowlands bioregion

EVC 953: Estuarine Scrub

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.

Canopy Cover:

%cover	Character Species	Common Name
50%	<i>Melaleuca ericifolia</i>	Swamp Paperbark

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		55%	

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

Recruitment:

Continuous

Organic Litter:

20 % cover

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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