

EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 3: Damp Sands Herb-rich Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus melliodora</i>	Yellow Box
	<i>Eucalyptus goniacalyx</i> s.l.	Bundy

Understorey:

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

LF Code

Species typical of at least part of EVC range

Common Name

T	<i>Exocarpos cupressiformis</i>	Cherry Ballart
T	<i>Acacia mearnsii</i>	Black Wattle
MS	<i>Kunzea ericoides</i>	Burgan
MS	<i>Acacia paradoxa</i>	Hedge Wattle
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
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 <i>Willis (1972)</i>	Ivy-leaf Violet
MH	<i>Geranium solanderi</i> s.l.	Austral Cranesbill
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Kennedia prostrata</i>	Running Postman
SH	<i>Opercularia varia</i>	Variable Stinkweed
SH	<i>Poranthera microphylla</i>	Small Poranthera
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Austrodanthonia penicillata</i>	Slender Wallaby-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Clematis microphylla</i>	Small-leaved Clematis

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

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

15 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high
MTG	<i>Ehrharta erecta</i> var. <i>erecta</i>	Panic Veldt-grass	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 6: Sand Heathland

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.

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

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>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

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 6: Sand Heathland – East Gippsland Uplands 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 Uplands bioregion

EVC 7: Clay Heathland

Description:

Occurs on sites with impeded drainage, often on duplex soils. Dominated by heathy shrub species with or without a 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	9	30%	MS
Small Shrub	6	10%	SS
Prostrate Shrub	3	5%	PS
Medium Herb	8	10%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	5	10%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	7	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Hakea sericea</i> s.l.	Bushy Needlewood
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
SS	<i>Dampiera stricta</i>	Blue Dampiera
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Gompholobium huegelii</i>	Common Wedge-pea
SS	<i>Rhytidisporum procumbens</i>	White Marianth
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Bossiaea prostrata</i>	Creeping Bossiaea
MH	<i>Lagenophora gracilis</i>	Slender Bottle-daisy
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Hypericum gramineum</i>	Small St John's Wort
SH	<i>Mitrasacme serpyllifolia</i>	Thyme Mitrewort
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Xanthorrhoea minor</i> ssp. <i>lutea</i>	Small Grass-tree
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MTG	<i>Poa sieberiana</i>	Grey Tussock-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
MNG	<i>Caustis flexuosa</i>	Curly Wig

EVC 7: Clay Heathland - East Gippsland Uplands bioregion

Recruitment:

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

Organic Litter:

20% Cover

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 Uplands 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	30%	MS
Small Shrub	3	5%	SS
Large Herb	2	5%	LH
Medium Herb	4	5%	MH
Large Tufted Graminoid	2	10%	LTG
Large Non-tufted Graminoid	3	10%	LNG
Medium to Small Tufted Graminoid	4	10%	MTG
Medium to Tiny Non-tufted Graminoid	3	10%	MNG
Ground Fern	1	1%	GF
Scrambler or Climber	2	10%	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>Hakea nodosa</i>	Yellow Hakea
MS	<i>Melaleuca squarrosa</i>	Scented Paperbark
MS	<i>Allocasuarina paludosa</i>	Scrub Sheoak
SS	<i>Bauera rubioides</i>	Wiry Bauera
PS	<i>Xanthosia dissecta s.l.</i>	Cut-leaf Xanthosia
LH	<i>Xyris operculata</i>	Tall Yellow-eye
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Selaginella uliginosa</i>	Swamp Selaginella
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
LNG	<i>Baumea rubiginosa s.l.</i>	Soft Twig-rush
MTG	<i>Lepidosperma filiforme</i>	Common Rapier-sedge
MTG	<i>Tetraria capillaris</i>	Hair Sedge
MTG	<i>Patersonia fragilis</i>	Short Purple-flag
MNG	<i>Empodisma minus</i>	Spreading Rope-rush
MNG	<i>Baumea tetragona</i>	Square Twig-sedge
MNG	<i>Poa tenera</i>	Slender Tussock-grass
GF	<i>Lindsaea linearis</i>	Screw Fern
SC	<i>Gleichenia dicarpa</i>	Pouched Coral-fern
SC	<i>Cassytha glabella</i>	Slender Dodder-laurel

EVC 8: Wet Heathland - East Gippsland Uplands bioregion

Recruitment:

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

Organic Litter:

20% cover

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 Uplands 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 Uplands 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 Uplands 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 Uplands 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:

40 % cover

Logs:

15 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
MH	<i>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 Uplands 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 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	2	10%	T
Medium Shrub	7	25%	MS
Small Shrub	3	10%	SS
Prostrate Shrub	1	1%	PS
Large Herb	1	1%	LH
Medium Herb	4	10%	MH
Large Tufted Graminoid	1	5%	LTG
Large Non-tufted Graminoid	2	10%	LNG
Medium to Small Tufted Graminoid	3	10%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	1	5%	GF
Scrambler or Climber	3	5%	SC
Bryophytes/Lichens	na	10%	BL

EVC 16: Lowland Forest - East Gippsland Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Goodenia ovata</i>	Hop Goodenia
MS	<i>Acacia mucronata</i> ssp. <i>longifolia</i>	Narrow-leaf Wattle
MS	<i>Leucopogon lanceolatus</i> var. <i>lanceolatus</i>	Lance Beard-heath
MS	<i>Epacris impressa</i>	Common Heath
SS	<i>Tetratheca pilosa</i>	Hairy Pink-bells
SS	<i>Hibbertia empetrifolia</i> s.l.	Tangled Guinea-flower
SS	<i>Lomatia ilicifolia</i>	Holly Lomatia
SS	<i>Dampiera stricta</i>	Blue Dampiera
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Gonocarpus teucrioides</i> s.l.	Germander Raspwort
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LNG	<i>Gahnia radula</i>	Thatch 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>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>Cassytha phaeolasia</i>	Rusty Dodder-laurel
SC	<i>Billardiera scandens</i>	Common Apple-berry
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:

There are no consistent weeds in this EVC.

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands 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 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 globoidea</i>	White Stringybark
	<i>Eucalyptus viminalis</i>	Manna Gum
	<i>Eucalyptus croajingolensis</i>	Gippsland Peppermint

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	4	15%	T
Medium Shrub	11	30%	MS
Large Herb	3	5%	LH
Medium Herb	9	10%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	3	5%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	6	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	4	15%	GF
Tree Fern	1	5%	TRF
Scrambler or Climber	5	10%	SC
Bryophytes/Lichens	na	20%	BL

EVC 18: Riparian Forest - East Gippsland Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Pomaderris aspera</i>	Hazel Pomaderris
T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Acacia dealbata</i>	Silver Wattle
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Cassinia aculeata</i>	Common Cassinia
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Leucopogon lanceolatus</i> var. <i>lanceolatus</i>	Lance Beard-heath
LH	<i>Senecio linearifolius</i>	Fireweed Groundsel
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
SH	<i>Poranthera microphylla</i>	Small Poranthera
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>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Carex breviculmis</i>	Common Grass-sedge
MTG	<i>Dianella caerulea</i> var. <i>caerulea</i>	Paroo Lily
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>Adiantum aethiopicum</i>	Common Maidenhair
GF	<i>Calochlaena dubia</i>	Common Ground-fern
TRF	<i>Cyathea australis</i>	Rough Tree-fern
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Smilax australis</i>	Austral Sarsaparilla
SC	<i>Glycine clandestina</i>	Twining Glycine
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
MS	<i>Rubus fruticosus</i> spp. agg.	Blackberry	high	high
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands 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	Character Species	Common Name
30%	<i>Acacia mearnsii</i>	Black Wattle
	<i>Acacia falciformis</i>	Large-leaf Hickory-wattle
	<i>Pomaderris aspera</i>	Hazel Pomaderris

Understorey:

Life form	#Spp	%Cover	LF code
Medium Shrub	6	25%	MS
Large Herb	6	5%	LH
Medium Herb	5	10%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	3	5%	LTG
Medium to Small Tufted Graminoid	2	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	1%	MNG
Ground Fern	3	5%	GF
Scrambler or Climber	2	1%	SC
Bryophytes/Lichens	na	20%	BL
Total understorey projective foliage cover		75%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Kunzea ericoides</i>	Burgan
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Philotheca myoporoides</i>	Long-leaf Wax-flower
MS	<i>Beyeria lasiocarpa</i>	Wallaby-bush
SS	<i>Olearia iodochroa</i>	Violet Daisy-bush
LH	<i>Stypandra glauca</i>	Nodding Blue-lily
LH	<i>Xerochrysum bracteatum</i>	Golden Everlasting
LH	<i>Myriophyllum verrucosum</i>	Red Water-milfoil
MH	<i>Solanum prinophyllum</i>	Forest Nightshade
MH	<i>Veronica plebeia</i>	Trailing Speedwell
MH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
SH	<i>Oxalis corniculata s.l.</i>	Yellow Wood-sorrel
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Hydrocotyle sibthorpioides</i>	Shining Pennywort
SH	<i>Crassula sieberiana</i>	Sieber Crassula
LTG	<i>Lepidosperma urophorum</i>	Tailed Rapier-sedge
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Eragrostis parviflora</i>	Weeping Love-grass
LTG	<i>Cyperus lucidus</i>	Leafy Flat-sedge
LNG	<i>Schoenoplectus tabernaemontani</i>	River Club-sedge
MTG	<i>Poa australis spp. agg.</i>	Tussock Grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Lachnagrostis filiformis</i>	Common Blown-grass
MNG	<i>Cyperus sphaeroideus</i>	Globe Kyllinga
MNG	<i>Eleocharis acuta</i>	Common Spike-sedge
MNG	<i>Luzula campestris spp. agg.</i>	Field Woodrush
GF	<i>Cheilanthes austrotenuifolia</i>	Green Rock-fern
GF	<i>Asplenium flabellifolium</i>	Necklace Fern
GF	<i>Pellaea falcata s.l.</i>	Sickle Fern
SC	<i>Clematis microphylla</i>	Small-leaved Clematis
SC	<i>Pandorea pandorana</i>	Wonga Vine

EVC 19: Riparian Shrubland - East Gippsland Uplands 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 Uplands 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
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	8	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		90%	

EVC 20: Heathy Dry Forest - East Gippsland Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
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 s.s.</i>	Creeping Cudweed
MTG	<i>Joycea pallida</i>	Silvertop Wallaby-grass
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Dianella revoluta s.l.</i>	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 Uplands 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 macrorhyncha</i>	Red Stringybark
	<i>Eucalyptus consideniana</i>	Yertchuk
	<i>Eucalyptus sieberi</i>	Silvertop Ash
	<i>Eucalyptus globoidea</i>	White Stringybark

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	5%	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		80%	

EVC 21: Shrubby Dry Forest - East Gippsland Uplands 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 teucrioides</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
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
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:

30 % 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 Uplands bioregion

EVC 22: Grassy Dry Forest

Description:

Occurs on a variety of gradients and altitudes and on a range of geologies. The overstorey is dominated by a low to medium height forest of eucalypts to 20 m tall, sometimes resembling an open woodland with a secondary, smaller tree layer including a number of Acacia species. The understorey usually consists of a sparse shrub layer of medium height. Grassy Dry Forest is characterised by a ground layer dominated by a high diversity of drought-tolerant grasses and herbs, often including a suite of fern species.

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus globulus</i> ssp. <i>pseudoglobulus</i>	Gippsland Blue Gum
	<i>Eucalyptus bridgesiana</i>	But But
	<i>Eucalyptus consideniana</i>	Yertchuk
	<i>Eucalyptus mannifera</i>	Brittle Gum
	<i>Eucalyptus nortonii</i>	Silver Bundy

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	10%	T
Medium Shrub	7	20%	MS
Small Shrub	3	5%	SS
Prostrate Shrub	1	5%	PS
Large Herb	3	1%	LH
Medium Herb	11	20%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	6	25%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	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 Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia falciformis</i>	Large-leaf Hickory-wattle
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Pultenaea juniperina</i> s.l.	Prickly Bush-pea
MS	<i>Leucopogon lanceolatus</i> var. <i>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</i> sensu Willis (1972)	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>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>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.

Weediness:

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 23: Herb-rich Foothill Forest

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus rubida</i>	Candlebark
	<i>Eucalyptus dives</i>	Broad-leaved Peppermint
	<i>Eucalyptus radiata</i> s.l.	Narrow-leaf Peppermint

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	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 Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
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
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 quadridentatus</i>	Cotton Fireweed
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Poranthera microphylla</i>	Small Poranthera
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Cymbonotus preissianus</i>	Austral Bear's-ear
SH	<i>Chiloglottis gunnii s.l.</i>	Common Bird-orchid
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Dichelachne sciurea spp. agg.</i>	Short-hair Plume-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MNG	<i>Microlaena stipoides var. 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	low	high
SS	<i>Rubus sp. aff. armeniacus</i>	Blackberry	high	high
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
LH	<i>Sonchus asper s.l.</i>	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 s.l.</i>	Common Mouse-ear Chickweed	high	low
MH	<i>Trifolium arvense var. arvense</i>	Hare's-foot Clover	high	low
MNG	<i>Aira caryophyllea</i>	Silvery Hair-grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 24: Foothill Box Ironbark Forest

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus tricarpa</i>	Red Ironbark
	<i>Eucalyptus polyanthemus</i>	Red Box
	<i>Eucalyptus muelleriana</i>	Yellow Stringybark

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	4	20%	MS
Large Herb	2	1%	LH
Medium Herb	2	1%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	3	5%	MTG
Epiphyte	1	1%	EP
Scrambler or Climber	3	5%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		50%	

EVC 24: Foothill Box Ironbark Forest - East Gippsland Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Exocarpos cupressiformis</i>	Cherry Ballart
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Platysace lanceolata</i>	Shrubby Platysace
MS	<i>Olearia ramulosa</i>	Twiggy Daisy-bush
MS	<i>Polyscias sambucifolia</i>	Elderberry Panax
SS	<i>Rhytidisporum procumbens</i>	White Marianth
LH	<i>Stypandra glauca</i>	Nodding Blue-lily
LH	<i>Wahlenbergia gracilis</i> s.l.	Sprawling Bluebell
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Helichrysum leucopsidium</i>	Satin Everlasting
MH	<i>Poranthera microphylla</i>	Small Poranthera
MH	<i>Veronica calycina</i>	Hairy Speedwell
MH	<i>Helichrysum scorpioides</i>	Button Everlasting
SH	<i>Opercularia varia</i>	Variable Stinkweed
SH	<i>Galium propinquum</i>	Maori Bedstraw
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Joycea pallida</i>	Silvertop Wallaby-grass
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MTG	<i>Dianella caerulea</i> var. <i>caerulea</i>	Paroo Lily
MTG	<i>Lepidosperma laterale</i> var. <i>laterale</i>	Variable Sword-sedge
EP	<i>Cassytha phaeolasia</i>	Rusty Dodder-laurel
SC	<i>Billardiera scandens</i>	Common Apple-berry
SC	<i>Pandorea pandorana</i>	Wonga Vine
SC	<i>Comesperma volubile</i>	Love Creeper
SC	<i>Hardenbergia violacea</i>	Purple Coral-pea

Recruitment:

Continuous

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 Uplands 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 Uplands bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands 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	7	25%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	3	5%	LH
Medium Herb	3	5%	MH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	5	10%	MTG
Scrambler or Climber	2	1%	SC
Bryophytes/Lichens	na	20%	BL
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		85%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>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>Olearia iodochoa</i>	Violet Daisy-bush
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
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
LTG	<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>Hypochaeris radicata</i>	Cat's Ear	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low

EVC 28: Rocky Outcrop Shrubland - East Gippsland Uplands bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 29: Damp Forest

Description:

Grows on a wide range of geologies on well-developed generally colluvial soils on a variety of aspects, from sea level to montane elevations. Dominated by a tall eucalypt tree layer to 30 m tall over a medium to tall 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 including occasional 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 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	15%	T
Medium Shrub	10	25%	MS
Small Shrub	2	5%	SS
Large Herb	2	1%	LH
Medium Herb	6	15%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	5%	LNG
Medium to Small Tufted Graminoid	4	10%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	4	20%	GF
Tree Fern	1	5%	TRF
Scrambler or Climber	4	10%	SC
Bryophytes/Lichens	na	20%	BL

EVC 29: Damp Forest - East Gippsland Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Elaeocarpus reticulatus</i>	Blue Oliveberry
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Leucopogon lanceolatus</i> var. <i>lanceolatus</i>	Lance Beard-heath
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Polyscias sambucifolia</i>	Elderberry Panax
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Poranthera microphylla</i>	Small Poranthera
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
MH	<i>Gonocarpus teucrioides</i> s.l.	Germander Raspwort
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Hierochloa rariflora</i>	Cane Holy-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Dianella caerulea</i> var. <i>caerulea</i>	Paroo Lily
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
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
TRF	<i>Cyathea australis</i>	Rough Tree-fern
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Billardiera scandens</i>	Common Apple-berry
SC	<i>Tylophora barbata</i>	Bearded Tylophora
SC	<i>Smilax australis</i>	Austral Sarsaparilla

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 Uplands 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 denticulata</i>	Errinundra Shining Gum
	<i>Eucalyptus regnans</i>	Mountain Ash
	<i>Eucalyptus viminalis</i>	Manna Gum

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	4	20%	T
Medium Shrub	7	25%	MS
Large Herb	1	1%	LH
Medium Herb	5	15%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	1	1%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	3	5%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	4	30%	GF
Tree Fern	2	15%	TRF
Epiphyte	1	1%	EP
Scrambler or Climber	4	10%	SC
Bryophytes/Lichens	na	20%	BL

EVC 30: Wet Forest - East Gippsland Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Olearia argophylla</i>	Musk Daisy-bush
T	<i>Bedfordia arborescens</i>	Blanket-leaf
T	<i>Telopea oreades</i>	Gippsland Waratah
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Polyscias sambucifolia</i>	Elderberry Panax
MS	<i>Pimelea axiflora</i>	Bootlace Bush
MS	<i>Tasmannia lanceolata</i>	Mountain Pepper
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Stellaria flaccida</i>	Forest Starwort
MH	<i>Geranium potentilloides</i>	Cinquefoil Cranesbill
MH	<i>Sambucus gaudichaudiana</i>	White Elderberry
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Poa ensiformis</i>	Sword Tussock-grass
MTG	<i>Hierochloa rariflora</i>	Cane Holy-grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Blechnum wattsii</i>	Hard Water-fern
GF	<i>Histiopteris incisa</i>	Bat's Wing Fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
TRF	<i>Cyathea australis</i>	Rough Tree-fern
EP	<i>Fieldia australis</i>	Fieldia
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Smilax australis</i>	Austral Sarsaparilla
SC	<i>Tylophora barbata</i>	Bearded Tylophora

Recruitment:

Continuous (excepting Mountain Ash)

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 Uplands bioregion

EVC 31: Cool Temperate Rainforest

Description:

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

Large trees:

Species	DBH(cm)	#/ha
<i>Elaeocarpus/Atherosperma</i>	70 cm	20 / ha

Tree Canopy Cover:

%cover	Character Species	Common Name
50%	<i>Elaeocarpus holopetalus</i>	Black Oliveberry
	<i>Atherosperma moschatum</i>	Southern Sassafras

Understorey:

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

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Telopea oreades</i>	Gippsland Waratah
T	<i>Pittosporum bicolor</i>	Banyalla
MS	<i>Tasmannia lanceolata</i>	Mountain Pepper
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Leucopogon maccraei</i>	Subalpine Beard-heath
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Australina pusilla</i> ssp. <i>muelleri</i>	Shade Nettle
MH	<i>Sambucus gaudichaudiana</i>	White Elderberry
MH	<i>Stellaria flaccida</i>	Forest Starwort
MTG	<i>Poa ensiformis</i>	Sword Tussock-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Uncinia nemoralis</i>	River Hook-sedge
MTG	<i>Libertia pulchella</i>	Pretty Grass-flag
MNG	<i>Uncinia tenella</i>	Delicate Hook-sedge
GF	<i>Grammitis billardierei</i>	Common Finger-fern
GF	<i>Blechnum wattsii</i>	Hard Water-fern
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Histiopteris incisa</i>	Bat's Wing Fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
TRF	<i>Cyathea australis</i>	Rough Tree-fern
EP	<i>Crepidomanes venosum</i>	Veined Bristle-fern
EP	<i>Fieldia australis</i>	Fieldia
EP	<i>Hymenophyllum flabellatum</i>	Shiny Filmy Fern
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Parsonsia brownii</i>	Twining Silkpod
SC	<i>Smilax australis</i>	Austral Sarsaparilla

EVC 31: Cool Temperate Rainforest - East Gippsland Uplands bioregion

Recruitment:

Continuous

Organic Litter:

50 % cover

Logs:

20 m/0.1 ha.

Weediness:

There are no consistent weeds in this EVC.

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 32: Warm Temperate Rainforest

Description:

Closed forest to 20m tall occurring along small streams. 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
<i>Acmena smithii</i>	70 cm	20 / ha

Tree Canopy Cover:

%cover	Character Species	Common Name
50%	<i>Acmena smithii</i>	Lilly Pilly

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	5	30%	T
Medium Shrub	6	15%	MS
Large Herb	2	1%	LH
Medium Herb	5	10%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	1	1%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	2	5%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	8	25%	GF
Tree Fern	2	20%	TRF
Epiphyte	4	10%	EP
Scrambler or Climber	9	20%	SC
Bryophytes/Lichens	na	20%	BL

EVC 32: Warm Temperate Rainforest - East Gippsland Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Pomaderris aspera</i>	Hazel Pomaderris
T	<i>Bedfordia arborescens</i>	Blanket-leaf
T	<i>Olearia argophylla</i>	Musk Daisy-bush
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Hedycarya angustifolia</i>	Austral Mulberry
MS	<i>Notelaea venosa</i>	Large Mock-olive
MS	<i>Pimelea axiflora</i>	Bootlace Bush
LH	<i>Urtica incisa</i>	Scrub Nettle
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
MH	<i>Australina pusilla ssp. muelleri</i>	Shade Nettle
MH	<i>Stellaria flaccida</i>	Forest Starwort
MH	<i>Sambucus gaudichaudiana</i>	White Elderberry
SH	<i>Pyrrosia rupestris</i>	Rock Felt-fern
LTG	<i>Gahnia melanocarpa</i>	Black-fruit Saw-sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Blechnum patersonii ssp. patersonii</i>	Strap Water-fern
GF	<i>Lastreopsis acuminata</i>	Shiny Shield-fern
GF	<i>Blechnum cartilagineum</i>	Gristle Fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
TRF	<i>Cyathea australis</i>	Rough Tree-fern
EP	<i>Fieldia australis</i>	Fieldia
EP	<i>Microsorium scandens</i>	Fragrant Fern
EP	<i>Crepidomanes venosum</i>	Veined Bristle-fern
EP	<i>Microsorium pustulatum ssp. pustulatum</i>	Kangaroo Fern
SC	<i>Smilax australis</i>	Austral Sarsaparilla
SC	<i>Eustrephus latifolius</i>	Wombat Berry
SC	<i>Marsdenia rostrata</i>	Milk Vine
SC	<i>Cissus hypoglauca</i>	Jungle Grape

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 Uplands bioregion

EVC 34: Dry Rainforest

Description:

Open to closed non-eucalypt forest to 15 m tall. Occurs in areas of relatively low rainfall (750-900mm per annum) and primarily confined to topographic fire refuges most often associated with extensive cliffs, gorges and rock screes on northern and western aspects.

Large trees:

Species	DBH(cm)	#/ha
Various spp.	70 cm	10 / ha

Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Bedfordia arborescens</i>	Blanket-leaf
	<i>Pittosporum bicolor</i>	Banyalla

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	5	10%	MS
Large Herb	3	5%	LH
Medium Herb	4	10%	MH
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	5	20%	GF
Tree Fern	2	30%	TRF
Epiphyte	2	1%	EP
Scrambler or Climber	3	5%	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>Kunzea ericoides</i>	Burgan
MS	<i>Olearia phlogopappa</i>	Dusty Daisy-bush
MS	<i>Pimelea axiflora</i>	Bootlace Bush
LH	<i>Urtica incisa</i>	Scrub Nettle
LH	<i>Prasophyllum odoratum</i>	Scented Leek-orchid
MH	<i>Stellaria flaccida</i>	Forest Starwort
MH	<i>Sambucus gaudichaudiana</i>	White Elderberry
MH	<i>Stackhousia monogyna</i>	Creamy Stackhousia
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
SH	<i>Galium propinquum</i>	Maori Bedstraw
LTG	<i>Carex appressa</i>	Tall Sedge
MTG	<i>Poa ensiformis</i>	Sword Tussock-grass
MNG	<i>Uncinia tenella</i>	Delicate Hook-sedge
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Blechnum patersonii ssp. patersonii</i>	Strap Water-fern
GF	<i>Asplenium bulbiferum ssp. gracillimum</i>	Mother Spleenwort
GF	<i>Grammitis billardierei</i>	Common Finger-fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
TRF	<i>Cyathea australis</i>	Rough Tree-fern
EP	<i>Crepidomanes venosum</i>	Veined Bristle-fern
EP	<i>Microsorium pustulatum ssp. pustulatum</i>	Kangaroo Fern
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Smilax australis</i>	Austral Sarsaparilla
SC	<i>Parsonsia brownii</i>	Twining Silkpod
SC	<i>Eustrephus latifolius</i>	Wombat Berry

EVC 34: Dry Rainforest - East Gippsland Uplands bioregion

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

10 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 35: Tableland Damp Forest

Description:

Tall eucalypt forest to 30 m tall with an understorey dominated by a tall, diverse shrub layer of broad-leaved shrubs and heaths with sometimes a scattering of tree-ferns. The ground layer is dominated by a variety of herbs and graminoids. Occurs on topographically protected south-facing slopes and occasionally in gully heads on northern or western slopes in low relief montane areas.

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 croajingolensis</i>	Gippsland Peppermint
	<i>Eucalyptus dalrympleana</i>	Mountain Gum
	<i>Eucalyptus denticulata</i>	Errinundra Shining Gum

Understorey:

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

EVC 35: Tableland Damp Forest – East Gippsland Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Telopea oreades</i>	Gippsland Waratah
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Persoonia silvatica</i>	Forest Geebung
MS	<i>Tasmannia xerophila</i> ssp. <i>robusta</i>	Errinundra Pepper
MS	<i>Tasmannia lanceolata</i>	Mountain Pepper
MS	<i>Leucopogon maccraei</i>	Subalpine Beard-heath
SS	<i>Leucopogon hookeri</i>	Mountain Beard-heath
LH	<i>Senecio linearifolius</i>	Fireweed Groundsel
LH	<i>Brachyscome aculeata</i>	Branching Daisy
LH	<i>Drymophila cyanocarpa</i>	Turquoise Berry
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
SH	<i>Leptinella filicula</i>	Mountain Cotula
SH	<i>Lobelia pedunculata</i> s.l.	Matted Pratia
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Dichelachne rara</i>	Common Plume-grass
MTG	<i>Luzula meridionalis</i> var. <i>flaccida</i>	Common Woodrush
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

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 Uplands bioregion

EVC 36: Montane Dry Woodland

Description:

Occurs on dry and exposed mid to upper slopes at montane elevations, often extending onto ridges in high rainfall areas. Effective rainfall may be enhanced by cold air drainage, low cloud cover and in some cases, persistent snow cover. Open forest to open woodland to 15 m tall, according to altitude, precipitation and frequency of fire. The shrubby understorey is an unusual combination of species, which tolerate exposed montane conditions and species which enjoy the increased moisture available from cloud and fog drip.

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus pauciflora</i>	Snow Gum
	<i>Eucalyptus dives</i>	Broad-leaved Peppermint
	<i>Eucalyptus rubida</i>	Candlebark
	<i>Eucalyptus mannifera</i>	Brittle Gum

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	20%	T
Mallee Tree	1	1%	MT
Medium Shrub	6	20%	MS
Small Shrub	2	5%	SS
Large Herb	2	5%	LH
Medium Herb	9	20%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	6	15%	MTG
Medium to Tiny Non-tufted Graminoid	1	5%	MNG
Ground Fern	1	5%	GF
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

EVC 36: Montane Dry Woodland – East Gippsland Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
T	<i>Acacia obliquinervia</i>	Mountain Hickory Wattle
MS	<i>Coprosma hirtella</i>	Rough Coprosma
MS	<i>Pultenaea juniperina</i> s.l.	Prickly Bush-pea
MS	<i>Daviesia ulicifolia</i>	Gorse Bitter-pea
MS	<i>Cassinia aculeata</i>	Common Cassinia
SS	<i>Olearia erubescens</i>	Moth Daisy-bush
SS	<i>Leucopogon hookeri</i>	Mountain Beard-heath
SS	<i>Platylobium formosum</i>	Handsome Flat-pea
LH	<i>Derwentia derwentiana</i>	Derwent Speedwell
MH	<i>Stellaria pungens</i>	Prickly Starwort
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Viola betonicifolia</i> ssp. <i>betonicifolia</i>	Showy Violet
MH	<i>Asperula scoparia</i>	Prickly Woodruff
SH	<i>Leptinella filicula</i>	Mountain Cotula
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
MTG	<i>Stylidium graminifolium</i> s.l.	Grass Trigger-plant
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Arthropodium milleflorum</i> s.l.	Pale Vanilla-lily
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
SC	<i>Clematis aristata</i>	Mountain Clematis

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

Weediness:

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 37: Montane Grassy Woodland

Description:

Occurs in montane elevations on moderately fertile soils on all aspects. An open eucalypt woodland to 10 m tall, sometimes with a secondary tree layer. The understorey often consists of a sparse shrub layer which can be variable in height. The EVC is characterised by its grassy ground cover together with a variety of other graminoids and herbs.

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus dives</i>	Broad-leaved Peppermint
	<i>Eucalyptus rubida</i>	Candlebark

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	3	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	1	1%	LH
Medium Herb	8	20%	MH
Small or Prostrate Herb	2	5%	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	1	1%	GF
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

LF Code

Species typical of at least part of EVC range

Common Name

T	<i>Acacia dealbata</i>	Silver Wattle
MS	<i>Pultenaea juniperina</i> s.l.	Prickly Bush-pea
MS	<i>Epacris impressa</i>	Common Heath
SS	<i>Tetratheca bauerifolia</i>	Heath Pink-bells
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
MH	<i>Helichrysum scorpioides</i>	Button Everlasting
SH	<i>Hydrocotyle sibthorpioides</i>	Shining Pennywort
SH	<i>Chiloglottis gunnii</i> s.l.	Common Bird-orchid
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
MTG	<i>Stylidium graminifolium</i> s.l.	Grass Trigger-plant
MTG	<i>Luzula meridionalis</i> var. <i>meridionalis</i>	Common Woodrush
MTG	<i>Diplarrena moraea</i>	White Iris
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Clematis aristata</i>	Mountain Clematis

EVC 37: Montane Grassy Woodland - East Gippsland Uplands bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

15 m/0.1 ha.

Weediness:

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 38: Montane Damp Forest

Description:

Grows on a wide range of geologies on well-developed generally colluvial soils on a variety of aspects at montane elevations. Dominated by a tall eucalypt tree layer to 30 m tall over a medium to tall 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 delegatensis</i> ssp. <i>delegatensis</i>	Alpine Ash
	<i>Eucalyptus rubida</i>	Candlebark

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	3	20%	T
Medium Shrub	7	25%	MS
Small Shrub	4	10%	SS
Prostrate Shrub	1	1%	PS
Large Herb	3	5%	LH
Medium Herb	8	15%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	6	15%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	2	10%	GF
Tree Fern	1	1%	TRF
Scrambler or Climber	1	5%	SC
Bryophytes/Lichens	na	20%	BL

EVC 38: Montane Damp Forest - East Gippsland Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Eucalyptus dives</i>	Broad-leaved Peppermint
T	<i>Acacia dealbata</i>	Silver Wattle
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Lomatia myricoides</i>	River Lomatia
MS	<i>Persoonia confertiflora</i>	Cluster-flower Geebung
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Tasmannia xerophila</i>	Alpine Pepper
SS	<i>Olearia megalophylla</i>	Large-leaf Daisy-bush
SS	k <i>Leucopogon juniperinus</i>	Long-flower Beard-heath
SS	<i>Ozothamnus thyrsoides</i>	Sticky Everlasting
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
PS	<i>Persoonia chamaepeuce</i>	Dwarf Geebung
PS	<i>Platylobium formosum</i>	Handsome Flat-pea
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Derwentia perfoliata</i>	Digger's Speedwell
LH	<i>Senecio hispidulus</i>	Rough Fireweed
LH	<i>Derwentia derwentiana</i>	Derwent Speedwell
LH	<i>Wahlenbergia gracilis</i> s.l.	Sprawling Bluebell
MH	<i>Stellaria pungens</i>	Prickly Starwort
MH	<i>Ranunculus plebeius</i> s.l.	Forest/Hairy Buttercup
MH	v <i>Wahlenbergia densifolia</i>	Fairy Bluebell
SH	<i>Lobelia pedunculata</i> s.l.	Matted Pratia
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Scleranthus biflorus</i> s.l.	Twin-flower Knawel
SH	<i>Oxalis exilis</i>	Shady Wood-sorrel
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
MTG	<i>Dichelachne crinita</i>	Long-hair Plume-grass
MTG	<i>Dichelachne sciurea</i> spp. agg.	Short-hair Plume-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Austrodanthonia racemosa</i> var. <i>racemosa</i>	Striped Wallaby-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Asplenium flabellifolium</i>	Necklace Fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Hardenbergia violacea</i>	Purple Coral-pea

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>Taraxacum officinale</i> spp. agg.	Garden Dandelion	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 39: Montane Wet Forest

Description:

Grows on the most sheltered wet sites such as gully heads and south facing slopes at montane elevations in high rainfall areas. Soils are deep, fertile, well-drained and structureless and although well-drained, may remain saturated for long periods. The overstorey forms a tall open eucalypt forest to 30 m tall over a secondary tree layer with occasional tall shrubs which provide shade and protection for a fern-rich ground layer. Scattered herbs occur in gaps in the ground layer.

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 delegatensis</i> ssp. <i>delegatensis</i>	Alpine Ash

Understorey:

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

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
T	<i>Telopea oreades</i>	Gippsland Waratah
T	<i>Elaeocarpus holopetalus</i>	Black Oliveberry
MS	<i>Polyscias sambucifolia</i>	Elderberry Panax
MS	<i>Prostanthera lasianthus</i>	Victorian Christmas-bush
MS	<i>Tasmannia lanceolata</i>	Mountain Pepper
MS	<i>Coprosma hirtella</i>	Rough Coprosma
MH	<i>Stellaria flaccida</i>	Forest Starwort
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Sambucus gaudichaudiana</i>	White Elderberry
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Poa ensiformis</i>	Sword Tussock-grass
MTG	<i>Hierochloa rariflora</i>	Cane Holy-grass
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Blechnum wattsii</i>	Hard Water-fern
GF	<i>Histiopteris incisa</i>	Bat's Wing Fern
GF	<i>Pteridium esculentum</i>	Austral Bracken
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
SC	<i>Clematis aristata</i>	Mountain Clematis

EVC 39: Montane Wet Forest - East Gippsland Uplands bioregion

Recruitment:

Continuous

Organic Litter:

50 % cover

Logs:

30 m/0.1 ha.

Weediness:

There are no consistent weeds in this EVC.

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 40: Montane Riparian Woodland

Description:

Associated with the peat-rich flats of perennial, meandering streams which flow through Montane Dry Woodland at montane elevations. Characterised by a low open woodland to 10 m tall with a dense riparian shrub layer lining the smaller creeks but on the larger streams may be largely non-treed. The ground layer contains a dense sward of grasses, herbs and sedges often associated with creeks or river margins.

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus rubida</i>	Candlebark
	<i>Eucalyptus camphora</i> ssp. <i>humeana</i>	Mountain Swamp-gum
	<i>Eucalyptus stellulata</i>	Black Sallee

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	10%	T
Medium Shrub	3	10%	MS
Small Shrub	3	5%	SS
Large Herb	4	10%	LH
Medium Herb	12	20%	MH
Small or Prostrate Herb	4	10%	SH
Large Tufted Graminoid	3	5%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	6	30%	MTG
Medium to Tiny Non-tufted Graminoid	3	5%	MNG
Ground Fern	2	5%	GF
Bryophytes/Lichens	na	20%	BL

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

15 m/0.1 ha.

EVC 40: Montane Riparian Woodland - East Gippsland Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Leptospermum grandifolium</i>	Mountain Tea-tree
MS	<i>Baeckea gunniana</i>	Alpine Baeckea
MS	<i>Leptospermum myrtifolium</i>	Myrtle Tea-tree
MS	<i>Pimelea axiflora</i>	Bootlace Bush
SS	<i>Hovea heterophylla</i>	Common Hovea
SS	<i>Leucopogon hookeri</i>	Mountain Beard-heath
SS	<i>Rubus parvifolius</i>	Small-leaf Bramble
SS	<i>Epacris microphylla</i> s.l.	Coral Heath
LH	<i>Villarsia reniformis</i>	Running Marsh-flower
LH	<i>Veronica gracilis</i>	Slender Speedwell
LH	<i>Senecio hispidulus</i>	Rough Fireweed
MH	<i>Asperula pusilla</i>	Alpine Woodruff
MH	<i>Asperula gunnii</i>	Mountain Woodruff
MH	<i>Geranium potentilloides</i>	Cinquefoil Cranesbill
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Ranunculus amphitrichus</i>	Small River Buttercup
SH	r <i>Gratiola nana</i>	Matted Brooklime
SH	<i>Scleranthus biflorus</i> s.l.	Twin-flower Knawel
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
LTG	r <i>Scirpus polystachyus</i>	Large-head Club-sedge
LTG	<i>Juncus gregiflorus</i>	Green Rush
LTG	<i>Carex longibrachiata</i>	Bergalia Tussock
MTG	<i>Carex gaudichaudiana</i>	Fen Sedge
MTG	<i>Lachnagrostis filiformis</i>	Common Blown-grass
MTG	<i>Lachnagrostis aemula</i> s.l.	Leafy Blown-grass
MTG	<i>Carex blakei</i>	Alpine Sedge
MNG	<i>Isolepis crassiuscula</i>	Alpine Club-sedge
MNG	<i>Baumea gunnii</i>	Slender Twig-sedge
MNG	<i>Baloskion australe</i>	Mountain Cord-rush
MNG	<i>Luzula campestris</i> spp. agg.	Field Woodruff
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Blechnum minus</i>	Soft Water-fern

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Rosa rubiginosa</i>	Sweet Briar	low	high
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
LH	<i>Rumex crispus</i>	Curled Dock	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	high
MH	<i>Trifolium dubium</i>	Suckling Clover	high	low
MH	<i>Cerastium glomeratum</i> s.l.	Common Mouse-ear Chickweed	high	low
MH	<i>Taraxacum officinale</i> spp. agg.	Garden Dandelion	high	low
MH	<i>Batrachium trichophyllum</i>	Water Fennel	high	high
MH	<i>Acetosella vulgaris</i>	Sheep Sorrel	high	high
SH	<i>Trifolium repens</i> var. <i>repens</i>	White Clover	high	high
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high
MNG	<i>Aira caryophylla</i>	Silvery Hair-grass	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 41: Montane Riparian Thicket

Description:

Occurs in montane and sub-alpine areas, often within Montane Damp Forest along drainage lines, streams with gentle gradients and in soaks at the heads of gullies on south-facing aspects. The waterlogged soils are colluviums or alluviums rich in organic matter and it is a closed shrubland to 8 m tall in structure, often forming a narrow, linear strip. The understorey consists of a variety of shade-tolerant species. Along the stream flats ferns are the common life form while sedges, grasses and herbs form a sparse but diverse ground layer.

Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Leptospermum grandifolium</i>	Mountain Tea-tree

Understorey:

Life form	#Spp	%Cover	LF code
Medium Shrub	3	5%	MS
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	2	40%	LTG
Medium to Small Tufted Graminoid	2	1%	MTG
Ground Fern	3	20%	GF
Tree Fern	1	5%	TRF
Epiphyte	2	1%	EP
Bryophytes/Lichens	na	20 %	BL

LF Code

Species typical of at least part of EVC range

Common Name

MS	<i>Gaultheria appressa</i>	Wax-berry
MS	<i>Olearia phlogopappa</i>	Dusty Daisy-bush
MS	<i>Tasmannia lanceolata</i>	Mountain Pepper
SH	<i>Chiloglottis gunnii</i> s.l.	Common Bird-orchid
SH	<i>Chiloglottis cornuta</i>	Green Bird-orchid
PH	<i>Leptinella filicula</i>	Mountain Cotula
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LTG	<i>Juncus usitatus</i>	Billabong Rush
LTG	<i>Carex appressa</i>	Tall Sedge
MTG	<i>Isolepis subtilissima</i>	Mountain Club-sedge
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
GF	<i>Grammitis billardierei</i>	Common Finger-fern
GF	<i>Blechnum wattsii</i>	Hard Water-fern
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Blechnum nudum</i>	Fishbone Water-fern
TRF	<i>Todea barbara</i>	Austral King-fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
EP	<i>Microsorium pustulatum</i> ssp. <i>pustulatum</i>	Kangaroo Fern
EP	<i>Hymenophyllum peltatum</i>	Alpine Filmy Fern

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

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

Weediness:

There are no consistent weeds in this EVC.

EVC 41: Montane Riparian Thicket – East Gippsland Uplands bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 42: Sub-alpine Shrubland

Description:

A sparse to dense dry shrubland that occurs above 1200 m where snow persists for long periods. Species diversity is relatively low due to the harsh environment of long periods of low temperatures, the dominance of exposed rock and shallow, skeletal soils. The dominant feature of this EVC is the dense, though sometimes patchy shrub-layer under scattered mallee-form eucalypts such as Black Sallee *Eucalyptus stellulata*, growing where soils accumulate in rock crevices. In the ground stratum herbs and grasses may be present in high numbers if the shrub layer is sparse.

Life forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	6	40%	MS
Small Shrub	4	15%	SS
Prostrate Shrub	2	1%	PS
Large Herb	3	5%	LH
Medium Herb	8	15%	MH
Small or Prostrate Herb	2	5%	SH
Medium to Small Tufted Graminoid	5	20%	MTG
Medium to Tiny Non-tufted Graminoid	1	5%	MNG
Bryophytes/Lichens	na	20%	BL

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Podolobium alpestre</i>	Alpine Podolobium
MS	<i>Bossiaea foliosa</i>	Leafy Bossiaea
MS	<i>Callistemon sieberi</i>	River Bottlebrush
MS	<i>Banksia canei</i>	Mountain Banksia
SS	<i>Baeckea ramosissima</i>	Rosy Baeckea
SS	<i>Leucopogon fraseri</i>	Sharp Beard-heath
PS	<i>Pimelea alpina</i>	Alpine Rice-flower
PS	<i>Persoonia chamaepeuce</i>	Dwarf Geebung
LH	<i>Brachyscome aculeata</i>	Branching Daisy
LH	<i>Senecio pinnatifolius</i>	Variable Groundsel
LH	<i>Senecio gunnii</i>	Mountain Fireweed
LH	<i>Trachymene composita</i>	Parsnip Trachymene
MH	<i>Celmisia asteliifolia</i> spp. agg.	Silver Daisy
MH	<i>Goodenia hederacea</i>	Ivy Goodenia
MH	<i>Erigeron pappocromus</i> spp. agg.	Violet Fleabane
SH	<i>Leptinella filicula</i>	Mountain Cotula
SH	<i>Goodenia lanata</i>	Trailing Goodenia
SH	<i>Chiloglottis gunnii</i> s.l.	Common Bird-orchid
MTG	<i>Poa fawcettiae</i>	Horny Snow-grass
MTG	<i>Stylidium graminifolium</i> s.l.	Grass Trigger-plant
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Deyeuxia scaberula</i>	Rough Bent-grass
MNG	<i>Luzula campestris</i> spp. agg.	Field Woodrush
MNG	<i>Empodisma minus</i>	Spreading Rope-rush

EVC 42: Sub-alpine Shrubland – East Gippsland Uplands bioregion

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

10 m/0.1 ha.

Weediness:

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 43: Sub-alpine Woodland

Description:

Grows on a wide range of geologies and aspects, in the higher altitudinal levels above 1200 m. Rainfall is relatively high and snow may persist for long periods over winter. Soils are generally skeletal sandy clay loams with a rich humus topsoil layer. A low, open woodland to 10 m tall dominated by Snow Gum *Eucalyptus pauciflora*, with the understorey variously consisting of a rich suite of grasses and herbs, or a dense layer of woody shrubs, depending on soil fertility.

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
15%	<i>Eucalyptus pauciflora</i>	Snow Gum

Understorey:

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

LF Code

Species typical of at least part of EVC range

Common Name

T	<i>Acacia obliquinervia</i>	Mountain Hickory Wattle
MS	<i>Pultenaea forsythiana</i>	Prickly Bush-pea
MS	<i>Daviesia ulicifolia</i>	Gorse Bitter-pea
MS	<i>Tasmannia xerophila</i>	Alpine Pepper
SS	<i>Leucopogon hookeri</i>	Mountain Beard-heath
LH	<i>Senecio gunnii</i>	Mountain Fireweed
LH	<i>Brachyscome aculeata</i>	Branching Daisy
MH	<i>Stellaria pungens</i>	Prickly Starwort
MH	<i>Oreomyrrhis eriopoda</i>	Australian Caraway
MH	<i>Viola betonicifolia</i> ssp. <i>betonicifolia</i>	Showy Violet
MH	<i>Asperula gunnii</i>	Mountain Woodruff
MTG	<i>Stylidium graminifolium</i> s.l.	Grass Trigger-plant
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Poa australis</i> spp. agg.	Tussock Grass
MTG	<i>Carex breviculmis</i>	Common Grass-sedge
GF	<i>Polystichum proliferum</i>	Mother Shield-fern

EVC 43: Sub-alpine Woodland – East Gippsland Uplands bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

10 m/0.1 ha.

Weediness:

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 45: Shrubby Foothill Forest

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus sieberi</i>	Silvertop Ash
	<i>Eucalyptus macrorhyncha</i>	Red Stringybark

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	9	30%	MS
Small Shrub	5	15%	SS
Prostrate Shrub	1	1%	PS
Large Herb	2	5%	LH
Medium Herb	5	5%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	4	5%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	1	5%	GF
Scrambler or Climber	2	1%	SC
Bryophytes/Lichens	na	10%	BL
Total understorey projective foliage cover		70%	

EVC 45: Shrubby Foothill Forest - East Gippsland Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia falciformis</i>	Large-leaf Hickory-wattle
T	<i>Exocarpos cupressiformis</i>	Cherry Ballart
MS	<i>Persoonia confertiflora</i>	Cluster-flower Geebung
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Pultenaea juniperina s.l.</i>	Prickly Bush-pea
MS	<i>Acacia terminalis</i>	Sunshine Wattle
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
SS	<i>Pimelea curviflora s.l.</i>	Curved Rice-flower
SS	<i>Dampiera stricta</i>	Blue Dampiera
SS	<i>Rhytidisporum procumbens</i>	White Marianth
LH	<i>Stypandra glauca</i>	Nodding Blue-lily
MH	<i>Gonocarpus teucrioides s.l.</i>	Germander Raspswort
MH	<i>Pomax umbellata</i>	Pomax
MH	<i>Gonocarpus tetragynus</i>	Common Raspswort
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
SH	<i>Opecularia ovata</i>	Broad-leaf Stinkweed
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>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Comesperma volubile</i>	Love Creeper
SC	<i>Billardiera scandens</i>	Common Apple-berry
SC	<i>Pandorea pandorana</i>	Wonga Vine

Recruitment:

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

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands 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 may carry a variety of eucalypts, usually species which prefer more moist or more fertile conditions over a sparse shrub cover. In season, a rich array of herbs, lilies, grasses and sedges dominate the ground layer but at the drier end of the spectrum the ground layer may be sparse and slightly less diverse, but with the moisture-loving species still remaining.

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus elata</i>	River Peppermint
	<i>Eucalyptus viminalis</i>	Manna Gum
	<i>Eucalyptus globoides</i>	White Stringybark
	<i>Eucalyptus polyanthemos</i>	Red Box

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	3	15%	T
Medium Shrub	7	25%	MS
Small Shrub	1	1%	SS
Prostrate Shrub	2	1%	PS
Large Herb	3	5%	LH
Medium Herb	10	20%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	3	15%	LTG
Medium to Small Tufted Graminoid	5	20%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	2	5%	GF
Scrambler or Climber	5	5%	SC
Bryophytes/Lichens	na	20%	BL

EVC 47: Valley Grassy Forest - East Gippsland Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Acacia mearnsii</i>	Black Wattle
MS	<i>Kunzea ericoides</i>	Burgan
MS	<i>Exocarpos strictus</i>	Pale-fruit Ballart
MS	<i>Pultenaea juniperina s.l.</i>	Prickly Bush-pea
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Wahlenbergia gracilis s.l.</i>	Sprawling Bluebell
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Acaena ovina</i>	Australian Sheep's Burr
LH	<i>Senecio linearifolius</i>	Fireweed Groundsel
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
MH	<i>Veronica calycina</i>	Hairy Speedwell
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Desmodium gunnii</i>	Southern Tick-trefoil
SH	<i>Cymbonotus preissianus</i>	Austral Bear's-ear
SH	<i>Leptostigma reptans</i>	Dwarf Nertera
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Austrostipa rudis</i>	Veined Spear-grass
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Poa australis spp. agg.</i>	Tussock Grass
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
MNG	<i>Echinopogon ovatus</i>	Common Hedgehog-grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
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
MS	<i>Rubus fruticosus spp. agg.</i>	Blackberry	high	high
MS	<i>Prunus spp.</i>	Cherry Plum	low	high
MS	<i>Rosa rubiginosa</i>	Briar Rose	low	high
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Centaurea erythraea</i>	Common Centaury	high	low
MH	<i>Gamochaeta purpurea s.l.</i>	Purple Cudweed	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands 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 small tree or 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
30%	<i>Acacia melanoxylon</i>	Blackwood
	<i>Pomaderris aspera</i>	Hazel Pomaderris
	<i>Tristaniopsis laurina</i>	Kanooka
	<i>Acacia mearnsii</i>	Black Wattle

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	10	30%	MS
Small Shrub	1	1%	SS
Large Herb	2	5%	LH
Medium Herb	9	15%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	2	1%	LTG
Medium to Small Tufted Graminoid	4	10%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	3	10%	GF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10 %	BL
Total understorey projective foliage cover		75%	

EVC 82: Riverine Escarpment Scrub - East Gippsland Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Lasiopetalum macrophyllum</i>	Shrubby Velvet-bush
MS	<i>Pimelea axiflora</i>	Bootlace Bush
MS	<i>Kunzea ericoides</i>	Burgan
MS	<i>Babingtonia pluriflora</i>	Tall Baeckea
SS	k <i>Leucopogon juniperinus</i>	Long-flower Beard-heath
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
SS	<i>Rhytidosporum procumbens</i>	White Marianth
LH	<i>Urtica incisa</i>	Scrub Nettle
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Stypandra glauca</i>	Nodding Blue-lily
MH	<i>Veronica plebeia</i>	Trailing Speedwell
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
MH	<i>Solanum prinophyllum</i>	Forest Nightshade
MH	<i>Euchiton collinus</i> s.s.	Creeping Cudweed
SH	<i>Hydrocotyle tripartita</i>	Slender Pennywort
SH	<i>Galium propinquum</i>	Maori Bedstraw
SH	<i>Oxalis corniculata</i> s.l.	Yellow Wood-sorrel
SH	<i>Dichondra repens</i>	Kidney-weed
LTG	<i>Lomandra longifolia</i> ssp. <i>exilis</i>	Cluster-headed Mat-rush
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Poa australis</i> spp. agg.	Tussock Grass
MTG	<i>Luzula meridionalis</i> var. <i>flaccida</i>	Common Woodrush
MTG	<i>Carex fascicularis</i>	Tassel Sedge
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Cheilanthes austrotenuifolia</i>	Green Rock-fern
GF	<i>Adiantum aethiopicum</i>	Common Maidenhair
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	r <i>Polystichum formosum</i>	Broad Shield-fern
EP	<i>Hymenophyllum cupressiforme</i>	Common Filmy Fern
SC	<i>Billardiera scandens</i>	Common Apple-berry
SC	<i>Pandorea pandorana</i>	Wonga Vine

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>Rubus fruticosus</i> spp. agg.	Blackberry	high	high
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	low
MH	<i>Euphorbia peplus</i>	Petty Spurge	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 83: Swampy Riparian Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus camphora</i> ssp. <i>humeana</i>	Mountain Swamp-gum

Understorey:

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

LF Code

Species typical of at least part of EVC range

T	<i>Prostanthera lasianthos</i>
T	<i>Acacia melanoxylon</i>
MS	<i>Leptospermum lanigerum</i>
MS	<i>Leptospermum continentale</i>
MS	<i>Coprosma quadrifida</i>
PS	<i>Xanthosia dissecta</i> s.l.
LH	<i>Senecio minimus</i>
LH	<i>Lycopus australis</i>
MH	<i>Gonocarpus tetragynus</i>
LTG	<i>Poa labillardierei</i>
LTG	<i>Lomandra longifolia</i>
LTG	<i>Juncus procerus</i>
LTG	<i>Gahnia sieberiana</i>
LNG	<i>Baumea rubiginosa</i> s.l.
LNG	<i>Phragmites australis</i>
MTG	<i>Carex gaudichaudiana</i>
MTG	<i>Dianella revoluta</i> s.s.
MTG	<i>Lomandra filiformis</i>
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>
SC	<i>Billardiera scandens</i>

Common Name

Victorian Christmas-bush
Blackwood
Woolly Tea-tree
Prickly Tea-tree
Prickly Currant-bush
Cut-leaf Xanthosia
Shrubby Fireweed
Australian Gipsywort
Common Raspwort
Common Tussock Grass
Spiny-headed Mat-rush
Tall Rush
Red-fruit Saw-sedge
Soft Twig-rush
Common Reed
Fen Sedge
Black-anther Flax-lily
Wattle Mat-rush
Weeping Grass
Common Apple-berry

EVC 83: Swampy Riparian Woodland - East Gippsland Uplands bioregion

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Hypochoeris 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
MTG	<i>Briza maxima</i>	Large Quaking-grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 127: Valley Heathy Forest

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus bridgesiana</i> s.l.	But But
	<i>Eucalyptus dives</i>	Broad-leaved Peppermint
	<i>Eucalyptus consideniana</i>	Yertchuk
	<i>Eucalyptus macrorhyncha</i>	Red Stringybark
	<i>Eucalyptus mannifera</i>	Brittle Gum

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	5	20%	MS
Small Shrub	5	10%	SS
Prostrate Shrub	2	15%	PS
Large Herb	1	5%	LH
Medium Herb	12	15%	MH
Small or Prostrate Herb	5	5%	SH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	7	20%	MTG
Medium to Tiny Non-tufted Graminoid	1	5%	MNG
Bryophytes/Lichens	na	10%	BL

LF Code

Species typical of at least part of EVC range

Common Name

T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Kunzea ericoides</i>	Burgan
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Pimelea linifolia</i>	Slender Rice-flower
SS	<i>Hovea heterophylla</i>	Common Hovea
SS	<i>Tetralochea bauerifolia</i>	Heath Pink-bells
SS	<i>Leucopogon virgatus</i>	Common Beard-heath
SS	<i>Podolobium procumbens</i>	Trailing Podolobium
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
MH	<i>Hypericum gramineum</i>	Small St John's Wort
MH	<i>Viola betonicifolia</i> ssp. <i>betonicifolia</i>	Showy Violet
MH	<i>Veronica calycina</i>	Hairy Speedwell
SH	<i>Cymbonotus preissianus</i>	Austral Bear's-ear
SH	<i>Opercularia varia</i>	Variable Stinkweed
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Poa sieberiana</i> var. <i>sieberiana</i>	Grey Tussock-grass
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass

EVC 127: Valley Heathy Forest - East Gippsland Uplands bioregion

Recruitment:

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

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Rubus fruticosus</i> spp. agg.	Blackberry	high	high
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>Centaureum erythraea</i>	Common Centaury	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	low
MH	<i>Cerastium glomeratum</i> s.l.	Common Mouse-ear Chickweed	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 133: Limestone Pomaderris Shrubland

Description:

Open woodland to 10 m tall or shrubland with scattered emergent eucalypts to 5 m tall occurring on steep, north facing aspects associated with limestone cliffs with an understorey dominated by medium shrubs. It is found at altitudes of 750 m above sea level and receives a moderate rainfall of approximately over 700 mm per annum.

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

Large trees⁺:

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

Tree Canopy Cover⁺:

%cover	Character Species	Common Name
10%	<i>Eucalyptus nortonii</i>	Silver Bundy
	<i>Eucalyptus globulus</i>	Blue Gum
	<i>Eucalyptus viminalis</i>	Manna Gum

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree ⁺		5%	IT
Understorey Tree or Large Shrub ⁺	2	10%	T
Medium Shrub	9	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	1%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

EVC 133: Limestone Pomaderris Shrubland - East Gippsland Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T ⁺	<i>Allocasuarina verticillata</i>	Drooping Sheoak
T ⁺	<i>Banksia marginata</i>	Silver Banksia
MS	K v <i>Ozothamnus adnatus</i>	Winged Everlasting
MS	<i>Bursaria spinosa</i> ssp. <i>lasiophylla</i>	Hairy Bursaria
MS	R r <i>Pomaderris oraria</i> ssp. <i>calicicola</i>	Limestone Pomaderris
MS	R r <i>Pomaderris oraria</i>	Bassian Pomaderris
SS	r <i>Pimelea flava</i> ssp. <i>dichotoma</i>	Diosma Rice-flower
SS	<i>Pimelea glauca</i>	Smooth Rice-flower
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Wahlenbergia gracilis</i> s.l.	Sprawling Bluebell
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
LH	r <i>Arthropodium</i> sp. 1 (robust glaucous)	Tall Vanilla-lily
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>Convolvulus erubescens</i> spp. agg.	Pink Bindweed
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>Carex breviculmis</i>	Common Grass-sedge
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MTG	<i>Poa labillardierei</i>	Common Tussock-grass
GF	<i>Pleurosorus rutifolius</i> s.l.	Blanket Fern
SC	k <i>Clematis microphylla</i> var. <i>leptophylla</i>	Skeleton Vine
SC	<i>Clematis microphylla</i>	Small-leaved Clematis

Recruitment:
Continuous

Organic Litter:
40 % cover

Logs⁺:
5 m/0.1 ha.

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 Uplands Bioregion

EVC 133_61: Treed Limestone Pomaderris Shrubland

Description:

Open woodland to 10 m tall or shrubland with scattered emergent eucalypts to 5 m tall occurring on steep, north facing aspects associated with limestone cliffs with an understorey dominated by medium shrubs. It is found at altitudes of 750 m above sea level and receives a moderate rainfall of approximately over 700 mm per annum.

Large Trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
10%	<i>Eucalyptus globulus</i>	Southern Blue-gum
	<i>Eucalyptus nortonii</i>	Silver Bundy
	<i>Eucalyptus viminalis</i>	Manna Gum

Understorey:

Lifeform	#Spp	%Cover	LF Code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	9	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	1%	SC
Bryophytes/Lichens		10%	BL
Soil Crust		10%	S/C

EVC 133_61: Treed Limestone Pomaderris Shrubland

LF Code		Species typical of at least part of EVC range	Common Name
T		<i>Allocasuarina verticillata</i>	Drooping Sheoak
T		<i>Banksia marginata</i>	Silver Banksia
MS		<i>Bursaria spinosa</i> subsp. <i>lasiophylla</i>	Hairy Bursaria
MS	v	<i>Ozothamnus adnatus</i>	Winged Everlasting
MS	r	<i>Pomaderris oraria</i>	Bassian Pomaderris
MS	r	<i>Pomaderris oraria</i> subsp. <i>calcicola</i>	Limestone Pomaderris
SS	r	<i>Pimelea flava</i> subsp. <i>dichotoma</i>	Diosma Rice-flower
SS		<i>Pimelea glauca</i>	Smooth Rice-flower
LH	r	<i>Arthropodium</i> sp. 1 (robust glaucous)	Tall Vanilla-lily
LH		<i>Senecio quadridentatus</i>	Cotton Fireweed
LH		<i>Wahlenbergia gracilis</i>	Sprawling Bluebell
MH		<i>Daucus glochidiatus</i>	Australian Carrot
MH		<i>Galium migrans</i>	Wandering Bedstraw
MH		<i>Oxalis perennans</i>	Grassland Wood-sorrel
SH		<i>Convolvulus erubescens</i> spp. agg.	Pink Bindweed
SH		<i>Cymbonotus preissianus</i>	Austral Bear's-ear
SH		<i>Dichondra repens</i>	Kidney-weed
SH		<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG		<i>Austrostipa blackii</i>	Crested Spear-grass
LTG		<i>Austrostipa nodosa</i>	Knotty Spear-grass
LTG		<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
MTG		<i>Carex breviculmis</i>	Common Grass-sedge
MTG		<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MTG		<i>Poa labillardierei</i>	Common Tussock-grass
MTG		<i>Themeda triandra</i>	Kangaroo Grass
SC		<i>Clematis microphylla</i>	Small-leaved Clematis
SC	k	<i>Clematis microphylla</i> var. <i>leptophylla</i>	Skeleton Vine

Recruitment:

Continuous.

Organic Litter:

40 % cover

Logs:

5 m/0.1ha.

Weediness:

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

EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands 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 of a number of willow shrubs that can withstand flooding while mature woody vines are generally absent.

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
50%	<i>Acmena smithii</i>	Lilly Pilly
	<i>Acacia melanoxylon</i>	Blackwood

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	15%	T
Medium Shrub	12	25%	MS
Large Herb	3	1%	LH
Medium Herb	11	15%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	3	5%	LTG
Large Non-tufted Graminoid	2	5%	LNG
Medium to Small Tufted Graminoid	6	10%	MTG
Medium to Tiny Non-tufted Graminoid	3	5%	MNG
Ground Fern	8	20%	GF
Tree Fern	2	5%	TRF
Epiphyte	2	1%	EP
Scrambler or Climber	8	10%	SC
Bryophytes/Lichens	na	20%	BL

EVC 135: Gallery Rainforest - East Gippsland Uplands 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>Pimelea axiflora</i>	Bootlace Bush
MS	<i>Hedycarya angustifolia</i>	Austral Mulberry
MS	<i>Goodenia ovata</i>	Hop Goodenia
LH	<i>Senecio linearifolius</i>	Fireweed Groundsel
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
MH	<i>Stellaria flaccida</i>	Forest Starwort
MH	<i>Gratiola peruviana</i>	Austral Brooklime
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Hydrocotyle tripartita</i>	Slender Pennywort
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LTG	<i>Carex appressa</i>	Tall Sedge
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Carex breviculmis</i>	Common Grass-sedge
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Isolepis inundata</i>	Swamp Club-sedge
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
MNG	<i>Echinopogon ovatus</i>	Common Hedgehog-grass
MNG	<i>Poa tenera</i>	Slender Tussock-grass
MNG	<i>Oplismenus hirtellus</i>	Australian Basket-grass
GF	<i>Adiantum aethiopicum</i>	Common Maidenhair
GF	<i>Calochlaena dubia</i>	Common Ground-fern
GF	<i>Blechnum nudum</i>	Fishbone Water-fern
GF	<i>Blechnum cartilagineum</i>	Gristle Fern
TRF	<i>Cyathea australis</i>	Rough Tree-fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
EP	<i>Hymenophyllum cupressiforme</i>	Common Filmy Fern
SC	<i>Smilax australis</i>	Austral Sarsaparilla
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Eustrephus latifolius</i>	Wombat Berry
SC	<i>Tylophora barbata</i>	Bearded Tylophora

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>Cirsium vulgare</i>	Spear Thistle	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands 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 melliodora</i>	Yellow Box
	<i>Eucalyptus globoidea</i>	White Stringybark
	<i>Eucalyptus muelleriana</i>	Yellow Stringybark
	<i>Eucalyptus polyanthemus</i>	Red Box
	<i>Eucalyptus macrorhyncha</i>	Red Stringybark
	<i>Eucalyptus radiata</i> s.l.	Narrow-leaf Peppermint
	<i>Eucalyptus bridgesiana</i> s.l.	But But

Understorey:

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

EVC 169: Dry Valley Forest - East Gippsland Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia falciformis</i>	Large-leaf Hickory-wattle
T	<i>Acacia mearnsii</i>	Black Wattle
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Kunzea ericoides</i>	Burgan
MS	<i>Indigofera australis</i>	Austral Indigo
MS	<i>Ozothamnus ferrugineus</i>	Tree Everlasting
SS	<i>Phyllanthus hirtellus</i>	Thyme Spurge
SS	<i>Pimelea humilis</i>	Common Rice-flower
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
LH	<i>Xerochrysum bracteatum</i>	Golden Everlasting
LH	<i>Mentha laxiflora</i>	Forest Mint
MH	<i>Veronica plebeia</i>	Trailing Speedwell
MH	<i>Poranthera microphylla</i>	Small Poranthera
MH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
MH	<i>Solanum prinophyllum</i>	Forest Nightshade
SH	<i>Oxalis corniculata</i> s.l.	Yellow Wood-sorrel
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Crassula sieberiana</i>	Sieber Crassula
SH	<i>Galium propinquum</i>	Maori Bedstraw
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Lepidosperma urophorum</i>	Tailed Rapier-sedge
LNG	<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>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Imperata cylindrica</i>	Blady Grass
MTG	<i>Austrodanthonia bipartita</i> s.l.	Leafy Wallaby-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Luzula campestris</i> spp. agg.	Field Woodrush
MNG	<i>Entolasia marginata</i>	Bordered Panic
MNG	<i>Echinopogon ovatus</i>	Common Hedgehog-grass
GF	<i>Cheilanthes austrotenuifolia</i>	Green Rock-fern
GF	<i>Asplenium flabellifolium</i>	Necklace Fern
GF	<i>Pellaea falcata</i> s.l.	Sickle Fern
GF	<i>Doodia australis</i>	Common Rasp-fern
EP	<i>Cassytha melantha</i>	Coarse Dodder-laurel
SC	<i>Pandorea pandorana</i>	Wonga Vine
SC	<i>Clematis microphylla</i>	Small-leaved Clematis
SC	<i>Glycine clandestina</i>	Twining Glycine

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Centaureum tenuiflorum</i>	Slender Centaury	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Cerastium glomeratum</i> s.l.	Common Mouse-ear Chickweed	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands 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 Uplands 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 Uplands 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
	<i>Eucalyptus viminalis</i> s.l.	Manna Gum
	<i>Eucalyptus rubida</i>	Candlebark

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

EVC 175_62: Limestone Grassy Woodland – East Gippsland Uplands bioregion

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
T	<i>Acacia implexa</i>	Lightwood
T	V v <i>Acacia caeruleascens</i>	Limestone Blue Wattle
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

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 Uplands bioregion

EVC 177: Valley Slopes Dry Forest

Description:

Open eucalypt forest to 20 m tall. Occurs on steep, eroding slopes in dry country above the Mitchell, Dargo and Tambo Rivers. 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 s.l.</i>	Tree Violet
MS	<i>Cassinia trinerva</i>	Three-nerved Cassinia
PS	<i>Xanthosia dissecta s.l.</i>	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 Uplands 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 sp. aff. armeniacus</i>	Blackberry	high	high
LH	<i>Sonchus asper s.l.</i>	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 s.l.</i>	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 caryophyllea</i>	Silvery Hair-grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 201: Shrubby Wet Forest

Description:

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

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 delegatensis</i> ssp. <i>delegatensis</i>	Alpine Ash
	<i>Eucalyptus croajingolensis</i>	Gippsland Peppermint
	<i>Eucalyptus obliqua</i>	Messmate Stringybark

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	20%	T
Medium Shrub	7	25%	MS
Small Shrub	3	10%	SS
Large Herb	2	1%	LH
Medium Herb	8	15%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	6	15%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	2	5%	GF
Bryophytes/Lichens	na	20%	BL

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
MS	<i>Polyscias sambucifolia</i>	Elderberry Panax
MS	<i>Coprosma hirtella</i>	Rough Coprosma
MS	<i>Daviesia ulicifolia</i>	Gorse Bitter-pea
MS	<i>Olearia phlogopappa</i>	Dusty Daisy-bush
SS	<i>Leucopogon hookeri</i>	Mountain Beard-heath
SS	<i>Ozothamnus thyrsoides</i>	Sticky Everlasting
SS	<i>Olearia megalophylla</i>	Large-leaf Daisy-bush
SS	<i>Olearia erubescens</i>	Moth Daisy-bush
LH	<i>Senecio linearifolius</i>	Fireweed Groundsel
LH	<i>Derwentia derwentiana</i>	Derwent Speedwell
LH	<i>Arthropodium milleflorum</i> s.l.	Pale Vanilla-lily
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
MH	<i>Poranthera microphylla</i>	Small Poranthera
MH	<i>Stellaria pungens</i>	Prickly Starwort
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
SH	<i>Leptinella filicula</i>	Mountain Cotula
SH	<i>Oxalis exilis</i>	Shady Wood-sorrel
LTG	<i>Lomandra longifolia</i> ssp. <i>exilis</i>	Cluster-headed Mat-rush
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
MTG	<i>Stylidium graminifolium</i> s.l.	Grass Trigger-plant
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Luzula meridionalis</i> var. <i>flaccida</i>	Common Woodrush
MTG	<i>Deyeuxia monticola</i> var. <i>monticola</i>	Mountain Bent-grass
MNG	<i>Poa tenera</i>	Slender Tussock-grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Polystichum proliferum</i>	Mother Shield-fern

EVC 201: Shrubby Wet Forest - East Gippsland Uplands bioregion

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>Prunella vulgaris</i>	Self-heal	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 206: Sub-alpine Grassland

Description:

Occurs primarily in areas at altitudes of around 1200 m above sea level. Structurally and floristically this EVC is dominated by grasses. Any shrubs present tend to be small and cryptic. The fertile and highly organic soils which are generally derived from granodiorite provide a suitable substrate for a lush cover of grasses and herbs, many specific to montane/sub-alpine environments. Snow persists for several months over winter. Species richness is low, indicative of the harsh environment.

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	1	5%	MS
Small Shrub	3	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	3	5%	LH
Medium Herb	11	20%	MH
Small or Prostrate Herb	3	10%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	5	20%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
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>Baeckea gunniana</i>	Alpine Baeckea
SS	<i>Grevillea australis</i>	Alpine Grevillea
SS	<i>Leucopogon hookeri</i>	Mountain Beard-heath
SS	<i>Hovea montana</i>	Alpine Rusty-pods
PS	<i>Pimelea alpina</i>	Alpine Rice-flower
MH	<i>Asperula gunnii</i>	Mountain Woodruff
MH	<i>Celmisia asteliifolia</i> spp. agg.	Silver Daisy
MH	<i>Leptorhynchus squamatus</i>	Scaly Buttons
MH	<i>Craspedia glauca</i> spp. agg.	Common Billy-buttons
SH	<i>Scleranthus biflorus</i> s.l.	Twin-flower Knawel
SH	<i>Gonocarpus micranthus</i> ssp. <i>micranthus</i>	Creeping Raspwort
SH	<i>Cotula alpina</i>	Alpine Cotula
MTG	<i>Carex breviculmis</i>	Common Grass-sedge
MTG	<i>Poa fawcettiae</i>	Horny Snow-grass
MTG	<i>Stylidium graminifolium</i> s.l.	Grass Trigger-plant
MTG	<i>Poa costiniana</i>	Bog Snow-grass
MNG	<i>Empodisma minus</i>	Spreading Rope-rush

Recruitment:

Continuous

Organic Litter:

10% Cover

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Acetosella vulgaris</i>	Sheep Sorrel	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
SH	<i>Trifolium repens</i> var. <i>repens</i>	White Clover	high	high

EVC 206: Sub-alpine Grassland – East Gippsland Uplands bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 316: Shrubby Damp Forest

Description:

Grows in gullies and on protected slopes on relatively skeletal but fertile sedimentary soils. Occurs at elevations of around 500 m above sea level and receives a low to moderate annual rainfall of approximately 750 mm. The overstorey includes a variety of Eucalypt species to 25 m tall. The dense mid stratum is 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 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	2	10%	T
Medium Shrub	6	25%	MS
Small Shrub	2	1%	SS
Large Herb	2	5%	LH
Medium Herb	10	15%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	2	1%	LTG
Large Non-tufted Graminoid	2	5%	LNG
Medium to Small Tufted Graminoid	4	15%	MTG
Ground Fern	2	15%	GF
Tree Fern	1	5%	TRF
Scrambler or Climber	3	5%	SC
Bryophytes/Lichens	na	20%	BL

EVC 316: Shrubby Damp Forest - East Gippsland Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Goodenia ovata</i>	Hop Goodenia
MS	<i>Epacris impressa</i>	Common Heath
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
SS	<i>Olearia erubescens</i>	Moth Daisy-bush
LH	<i>Stypandra glauca</i>	Nodding Blue-lily
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
MH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
MH	<i>Poranthera microphylla</i>	Small Poranthera
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Opercularia varia</i>	Variable Stinkweed
SH	<i>Chiloglottis gunnii s.l.</i>	Common Bird-orchid
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Poa australis</i> spp. agg.	Tussock Grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Calochlaena dubia</i>	Common Ground-fern
TRF	<i>Cyathea australis</i>	Rough Tree-fern
EP	<i>Cassytha melantha</i>	Coarse Dodder-laurel
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Hardenbergia violacea</i>	Purple Coral-pea
SC	<i>Billardiera scandens</i>	Common Apple-berry
SC	<i>Comesperma volubile</i>	Love Creeper

Recruitment:
Continuous

Organic Litter:
80 % cover

Logs:
30 m/0.1 ha.

Weediness:				
LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Rubus fruticosus</i> spp. agg.	Blackberry	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 318: Montane Swamp

Description:

Forms in drainage-lines on wet alluviums at montane and sub-montane elevations where annual rainfall is in the order of 650-750 mm. The vegetation is virtually treeless but occasional eucalypt emergents may be present. Characterised by an open shrub layer and a ground layer with a diversity of sedges, grasses, herbs and ferns.

Life Forms:

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

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Baeckea utilis</i> s.l.	Mountain Baeckea
MS	<i>Leptospermum myrtifolium</i>	Myrtle Tea-tree
MS	<i>Epacris breviflora</i>	Drumstick Heath
MS	<i>Hakea microcarpa</i>	Small-fruit Hakea
SS	<i>Epacris microphylla</i> s.l.	Coral Heath
MH	<i>Asperula conferta</i>	Common Woodruff
SH	<i>Leptinella filicula</i>	Mountain Cotula
LTG	<i>Carex appressa</i>	Tall Sedge
MTG	<i>Schoenus apogon</i>	Common Bog-sedge
MTG	<i>Isolepis subtilissima</i>	Club-sedge
MTG	<i>Festuca asperula</i>	Graceful Fescue
MTG	<i>Poa costiniana</i>	Prickly Snow-grass
MNG	<i>Baloskion australe</i>	Mountain Cord-rush
MNG	<i>Baumea gunnii</i>	Slender Twig-sedge
MNG	<i>Empodisma minus</i>	Spreading Rope-rush
GF	<i>Blechnum penna-marina</i> ssp. <i>alpina</i>	Alpine Water-fern

Recruitment:

Episodic/Fire. Desirable period between disturbances is 30 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

EVC 318: Montane Swamp - East Gippsland Uplands bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

East Gippsland Uplands bioregion

EVC 319: Montane Herb-rich Woodland

Description:

Occurs on southern and eastern-facing slopes or in protected gullies at elevations of around 1000 m above sea level, and receives a high rainfall of almost 1110 mm per annum. It is subject to cold air drainage, which influences the species mix. A mixture of eucalypts to 25 m tall forms the overstorey, with Silver Wattle abundant below. The shrub layer is neither diverse nor dense. The ground layer carries a diversity of herbs, graminoids and grasses. Climbers are commonly present.

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus dives</i>	Broad-leaved Peppermint
	<i>Eucalyptus mannifera</i> ssp. <i>mannifera</i>	Brittle Gum
	<i>Eucalyptus rubida</i>	Candlebark

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	10%	T
Medium Shrub	6	15%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	5	10%	LH
Medium Herb	12	20%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	7	20%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	2	5%	GF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	10%	BL

EVC 319: Montane Herb-rich Woodland - East Gippsland Uplands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
MS	<i>Cassinia aculeata</i>	Common Cassinia
MS	<i>Exocarpos strictus</i>	Pale-fruit Ballart
MS	<i>Choretrum pauciflorum</i>	Dwarf Sour-bush
MS	<i>Leucopogon fletcheri</i> ssp. <i>brevisepalus</i>	Twin-flower Beard-heath
SS	<i>Tetradlea bauerifolia</i>	Heath Pink-bells
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
SS	<i>Olearia erubescens</i>	Moth Daisy-bush
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
LH	<i>Derwentia derwentiana</i>	Derwent Speedwell
MH	<i>Euchiton collinus</i> s.s.	Creeping Cudweed
MH	<i>Poranthera microphylla</i>	Small Poranthera
MH	<i>Stellaria pungens</i>	Prickly Starwort
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Galium ciliare</i>	Hairy Bedstraw
SH	<i>Cymbonotus preissianus</i>	Austral Bear's-ear
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
MTG	<i>Dichelachne sciurea</i> spp. agg.	Short-hair Plume-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Austrodanthonia pilosa</i>	Velvet Wallaby-grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Asplenium flabellifolium</i>	Necklace Fern
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Glycine clandestina</i>	Twining Glycine

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	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Centaurea erythraea</i>	Common Centaury	high	low
MH	<i>Cerastium semidecandrum</i> s.l.	Mouse-ear Chickweed	high	low
MH	<i>Taraxacum officinale</i> spp. agg.	Garden Dandelion	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 Uplands bioregion

EVC 877: Lowland Herb-rich Forest

Description:

Primarily occurs in gullies and along slopes, and 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 stratum is dominated by a dense cover of grasses and a high diversity of tussock-forming graminoids and herbs. There is a diversity of vines and scramblers.

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 globoidea</i>	White Stringybark
	<i>Eucalyptus macrorhyncha</i>	Red Stringybark
	<i>Eucalyptus goniocalyx</i> s.l.	Bundy
	<i>Eucalyptus polyanthemos</i>	Red Box

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	4	20%	MS
Small Shrub	2	5%	SS
Large Herb	4	10%	LH
Medium Herb	8	15%	MH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	5	15%	MTG
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	10%	BL
Total understorey projective foliage cover		75%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Indigofera australis</i>	Austral Indigo
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Olearia lirata</i>	Snowy Daisy-bush
MS	<i>Beyeria lasiocarpa</i>	Wallaby-bush
SS	<i>Olearia iodochroa</i>	Violet Daisy-bush
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
LH	<i>Stypandra glauca</i>	Nodding Blue-lily
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Helichrysum leucopsidium</i>	Satin Everlasting
MH	<i>Pomax umbellata</i>	Pomax
MH	<i>Poranthera microphylla</i>	Small Poranthera
MH	<i>Stellaria pungens</i>	Prickly Starwort
MH	<i>Veronica calycina</i>	Hairy Speedwell
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
EP	<i>Amyema</i> spp.	Mistletoe
SC	<i>Billardiera scandens</i>	Common Apple-berry

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

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Centaureum erythraea</i>	Common Centaury	high	low
MH	<i>Cerastium glomeratum s.l.</i>	Common Mouse-ear Chickweed	high	low

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