

EVC/Bioregion Benchmark for Vegetation Quality Assessment Highlands – Far East bioregion

EVC 16: Lowland Forest

Description:

Eucalypt forest to 25 m tall on relatively fertile, moderately well-drained soils on ridges 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	3	15%	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

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>Tetralochea 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 teucroides</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
GF	<i>Blechnum cartilagineum</i>	Gristle Fern
GF	<i>Calochlaena dubia</i>	Common Ground-fern
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

EVC 16: Lowland Forest Highlands – Far East bioregion

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

There are no consistent weeds in this EVC.

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EVC/Bioregion Benchmark for Vegetation Quality Assessment Highlands – Far East bioregion

EVC 18: Riparian Forest

Description:

A tall forest along river banks and associated alluvial terraces with occasional occurrences on soaks and springs 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 (frequently disrupted by floods and less often wildfire), 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 elata</i>	River Peppermint
	<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	20%	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	2	5%	TRF
Scrambler or Climber	5	10%	SC
Bryophytes/Lichens	na	10%	BL

EVC 18: Riparian Forest Highlands – Far East 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
T	<i>Hedycarya angustifolia</i>	Austral Mulberry
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Cassinia aculeata</i>	Common Cassinia
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Prostanthera lasianthos</i>	Victorian Christmas-bush
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>Blechnum cartilagineum</i>	Gristle Fern
GF	<i>Blechnum nudum</i>	Fishbone Water-Fern
GF	<i>Adiantum aethiopicum</i>	Common Maidenhair
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
TRF	<i>Cyathea australis</i>	Rough Tree-fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
SC	<i>Clematis aristata</i>	Mountain Clematis
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 Highlands – Far East 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 cypellocarpa</i>	Mountain Grey-gum
	<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 Highlands - Far East bioregion

LF Code	Species typical of at least part of EVC range	Common Name
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>Daviesia ulicifolia</i>	Gorse Bitter-pea
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 filliformis</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 Highlands – Far East 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	10	50%	MS
Small Shrub	3	15%	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	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
MS	<i>Kunzea ambigua</i>	White Kunzea
MS	<i>Pomaderris lanigera</i>	Rusty Pomaderris
MS	<i>Dodonaea viscosa</i>	Sticky Hop-bush
MS	<i>Correa reflexa</i>	Common Correa
SS	<i>Pultenaea retusa</i>	Blunt Bush-pea
SS	<i>Olearia iodochroa</i>	Violet Daisy-bush
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
PS	<i>Pseuderanthus divaricatissimus</i>	Tangled Pseuderanthus
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Derwentia perfoliata</i>	Digger's Speedwell
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
LTG	<i>Joycea pallida</i>	Silvertop Wallaby-grass
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Dichelachne rara</i>	Common Plume-grass
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily

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
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	High	Low

EVC 28: Rocky Outcrop Shrubland Highlands – Far East bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment Highlands – Far East 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 fastigata</i>	Cut-tail
	<i>Eucalyptus fraxinoides</i>	White Ash
	<i>Eucalyptus cypellocarpa</i>	Mountain Grey-gum
	<i>Eucalyptus obliqua</i>	Messmate Stringybark

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	3	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 Highlands - Far East bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Elaeocarpus reticulatus</i>	Blue Oliveberry
T	<i>Acacia frigescens</i>	Frosted Wattle
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 Highlands – Far East 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 50 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 denticulata</i>	Errinundra Shining Gum
	<i>Eucalyptus fastigata</i>	Cut-tail
	<i>Eucalyptus obliqua</i>	Messmate Stringybark
	<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 Highlands - Far East bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Acacia frigescens</i>	Frosted Wattle
T	<i>Olearia argophylla</i>	Musk Daisy-bush
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>Asplenium bulbiferum</i>	Mother Spleenwort
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 Highlands – Far East bioregion

EVC 31: Cool Temperate Rainforest

Description:

Closed non-eucalypt forest to 25 m tall. Occurs in high rainfall areas above 700 m in elevation and protected from fire within Wet Forest. The understorey is 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	20%	T
Medium Shrub	2	5%	MS
Large Herb	2	10%	LH
Medium Herb	2	5%	MH
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>Notelaea ligustrina</i>	Privet Mock-olive
T	<i>Pittosporum bicolor</i>	Banyalla
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Tasmannia lanceolata</i>	Mountain Pepper
MS	<i>Leucopogon maccraei</i>	Subalpine Beard-heath
LH	<i>Urtica incisa</i>	Scrub Nettle
LH	<i>Sambucus gaudichaudiana</i>	White Elderberry
MH	<i>Australina pusilla</i> ssp. <i>muelleri</i>	Shade Nettle
MH	<i>Stellaria flaccida</i>	Forest Starwort
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MNG	<i>Deyeuxia rodwayi</i>	Tasman Bent-grass
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Histiopteris incisa</i>	Bat's Wing Fern
GF	<i>Grammitis billardierei</i>	Common Finger-fern
GF	<i>Asplenium bulbiferum</i> ssp. <i>gracillimum</i>	Mother Spleenwort
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
EP	<i>Hymenophyllum flabellatum</i>	Shiny Filmy Fern
EP	<i>Fieldia australis</i>	Fieldia
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Parsonsia brownii</i>	Twining Silkpod

EVC 31: Cool Temperate Rainforest Highlands - Far East 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 Highlands – Far East bioregion

EVC 32: Warm Temperate Rainforest

Description:

Closed forest to 20m tall occurring along sheltered gullies at elevations below 700 m. 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	25%	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	5%	EP
Scrambler or Climber	9	20%	SC
Bryophytes/Lichens	na	20%	BL

EVC 32: Warm Temperate Rainforest Highlands - Far East bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Telopea oreades</i>	Gippsland Waratah
T	<i>Rapanea howittiana</i>	Muttonwood
T	<i>Pittosporum undulatum</i>	Sweet Pittosporum
T	<i>Bedfordia arborescens</i>	Blanket-leaf
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
LH	<i>Sigesbeckia orientalis</i> ssp. <i>orientalis</i>	Indian Weed
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Australina pusilla</i> ssp. <i>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
MTG	<i>Luzula meridionalis</i>	Common Woodrush
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Blechnum patersonii</i> ssp. <i>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</i> ssp. <i>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 Highlands – Far East bioregion

EVC 33: Cool/Warm Temperate Rainforest Overlap

Description:

Closed forest to 20m tall restricted to deeply incised river valleys of moderate gradient and associated steep gullies in rugged mountain country on a variety of southerly aspects at an elevation of 650 to 750 m. 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/Elaeocarpus/Atherosperma/Pomaderris</i>	70 cm	20 / ha

Tree Canopy Cover:

%cover	Character Species	Common Name
50%	<i>Acmena smithii</i>	Lilly Pilly
	<i>Atherosperma moschatum</i>	Southern Sassafras
	<i>Elaeocarpus holopetalus</i>	Black Oliveberry
	<i>Pomaderris aspera</i>	Hazel Pomaderris

Understorey:

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

EVC 33: Cool/Warm Temperate Rainforest Overlap Highlands - Far East bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
T	v <i>Eucryphia moorei</i>	Leatherwood
T	<i>Rapanea howittiana</i>	Muttonwood
T	<i>Pittosporum bicolor</i>	Banyalla
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Hedycarya angustifolia</i>	Austral Mulberry
MS	<i>Telopea oreodes</i>	Gippsland Waratah
MS	<i>Tasmania lanceolata</i>	Mountain Pepper
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Australina pusilla</i> ssp. <i>muelleri</i>	Shade Nettle
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Blechnum patersonii</i> ssp. <i>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
TRF	Rr <i>Cyathea cunninghamii</i>	Slender Tree-fern
TRF	r <i>Cyathea X. marcescens</i>	Skirted Tree-fern
EP	<i>Fieldia australis</i>	Fieldia
EP	<i>Grammitis billardieri</i>	Common Finger-fern
EP	<i>Hymenophyllum australe</i>	Austral Filmy Fern
EP	<i>Microsorium scandens</i>	Fragrant Fern
EP	<i>Microsorium pustulatum</i> ssp. <i>pustulatum</i>	Kangaroo Fern
SC	<i>Smilax australis</i>	Austral Sarsaparilla
SC	<i>Eustrephus latifolius</i>	Wombat Berry
SC	<i>Marsdenia rostrata</i>	Milk Vine
SC	<i>Clematis aristata</i>	Mountain Clematis

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 Highlands – Far East 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 Highlands - Far East 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 Highlands – Far East 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 rubida</i>	Candlebark

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 Highlands - Far East 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>Monotoca scoparia</i>	Prickly Broom-heath
SS	<i>Olearia erubescens</i>	Moth Daisy-bush
SS	<i>Leucopogon hookeri</i>	Mountain Beard-heath
SS	<i>Platylobium formosum</i>	Handsome Flat-pea
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
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 Highlands – Far East 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.	60 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>Leucopogon hookeri</i>	Mountain Beard-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 Highlands - Far East 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 Highlands – Far East 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 croajingolensis</i>	Gippsland Peppermint
	<i>Eucalyptus obliqua</i>	Messmate
	<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	15%	T
Medium Shrub	7	25%	MS
Small Shrub	3	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 Highlands – Far East bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
T	<i>Acacia melanoxylon</i>	Blackwood
MS	<i>Coprosma hirtella</i>	Rough Coprosma
MS	<i>Cassinia aculeata</i>	Common Cassinia
MS	<i>Olearia phlogopappa</i>	Dusty Daisy-bush
MS	<i>Pimelea axiflora</i>	Bootlace Bush
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>Sambucus gaudichaudiana</i>	White Elderberry
LH	<i>Derwentia perfoliata</i>	Digger's Speedwell
LH	<i>Senecio hispidulus</i>	Rough Fireweed
LH	<i>Derwentia derwentiana</i>	Derwent Speedwell
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
MH	<i>Stellaria flaccida</i>	Forest Starwort
MH	<i>Ranunculus scapiger</i>	Hairy Buttercup
SH	<i>Leptinella filicula</i>	Mountain Cotula
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
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Poa helmsii</i>	Tall Tussock-grass
MTG	<i>Poa ensiformis</i>	Sword Tussock-grass
MTG	<i>Dichelachne crinita</i>	Long-hair Plume-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Austrodanthonia racemosa</i> var. <i>racemosa</i>	Stiped 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>Rubus parvifolius</i>	Small-leaf Bramble
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 Highlands – Far East 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>Acacia frigescens</i>	Frosted 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 lasianthos</i>	Victorian Christmas-bush
MS	<i>Tasmania 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 Highlands – Far East 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 Highlands – Far East 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 Highlands - Far East 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	<i>Scleranthus biflorus</i> s.l.	Twin-flower Knawel
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
LTG	<i>Carex appressa</i>	Tall 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>Poa labillardierei</i>	Common Tussock-grass
MNG	<i>Baumea gunnii</i>	Slender Twig-sedge
MNG	<i>Baloskion australe</i>	Mountain Cord-rush
MNG	<i>Luzula campestris</i> spp. agg.	Field Woodrush
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 caryophyllea</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 Highlands – Far East 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 watsii</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.

Weediness:

There are no consistent weeds in this EVC.

EVC 41: Montane Riparian Thicket Highlands - Far East bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment Highlands – Far East 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 globoidea</i>	White Stringybark

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	3	15%	T
Medium Shrub	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 Highlands - Far East 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</i> s.l.	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</i> s.l.	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</i> spp. agg.	Tussock Grass
MNG	<i>Microlaena stipoides</i> var. <i>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</i> spp. agg.	Blackberry	high	high
MS	<i>Prunus</i> spp.	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>Centaureum erythraea</i>	Common Centaury	high	low
MH	<i>Gamochaeta purpurea</i> s.l.	Purple Cudweed	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high

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