

EVC/Bioregion Benchmark for Vegetation Quality Assessment

Monaro Tablelands bioregion

EVC 18: Riparian Forest

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus fastigata</i>	Cut-tail
	<i>Eucalyptus viminalis</i>	Manna Gum

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	20%	T
Medium Shrub	3	5%	MS
Small Shrub	3	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	2	5%	LH
Medium Herb	21	15%	MH
Small or Prostrate Herb	9	10%	SH
Large Tufted Graminoid	3	5%	LTG
Medium to Small Tufted Graminoid	5	10%	MTG
Medium to Tiny Non-tufted Graminoid	3	10%	MNG
Ground Fern	3	10%	GF
Scrambler or Climber	3	1%	SC
Bryophytes/Lichens	na	20%	BL

EVC 18: Riparian Forest - Monaro Tablelands bioregion

LF Code	Character Species	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Lomatia fraseri</i>	Tree Lomatia
MS	<i>Goodia lotifolia</i>	Golden Tip
MS	<i>Olearia alpicola</i>	Alpine Daisy-bush
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
SS	<i>Olearia erubescens</i>	Moth Daisy-bush
SS	<i>Leucopogon hookeri</i>	Mountain Beard-heath
SS	<i>Rubus parvifolius</i>	Small-leaf Bramble
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Senecio minimus</i>	Shrubby Fireweed
LH	<i>Epilobium billardierianum</i>	Variable Willow-herb
MH	<i>Ranunculus plebeius</i> s.l.	Forest/Hairy Buttercup
MH	<i>Rumex brownii</i>	Slender Dock
MH	<i>Pterostylis decurva</i>	Summer Greenhood
MH	<i>Asperula scoparia</i>	Prickly Woodruff
SH	<i>Cymbonotus preissianus</i>	Austral Bear's-ear
SH	<i>Leptinella filicula</i>	Mountain Cotula
SH	<i>Hydrocotyle sibthorpioides</i>	Shining Pennywort
SH	<i>Oxalis corniculata</i> s.l.	Yellow Wood-sorrel
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Juncus continuus</i>	Pithy Rush
LTG	<i>Carex appressa</i>	Tall Sedge
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Luzula meridionalis</i> var. <i>densiflora</i>	Common Woodrush
MTG	r <i>Poa clivicola</i>	Fine-leaf Snow-grass
MTG	<i>Poa ensiformis</i>	Sword Tussock-grass
MNG	<i>Poa tenera</i>	Slender Tussock-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Echinopogon ovatus</i>	Common Hedgehog-grass
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Blechnum nudum</i>	Fishbone Water-fern
SC	<i>Glycine clandestina</i>	Twining Glycine
SC	<i>Clematis aristata</i>	Mountain Clematis

Recruitment:

Continuous

Organic Litter:

50 % cover

Logs:

30 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
SS	<i>Rubus</i> sp. aff. <i>armeniacus</i>	Blackberry	high	high
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Taraxacum officinale</i> spp. agg.	Garden Dandelion	high	low
SH	<i>Trifolium repens</i> var. <i>repens</i>	White Clover	high	high
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Monaro Tablelands bioregion

EVC 21: Shrubby Dry Forest

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus dives</i> <i>Eucalyptus rubida</i>	Broad-leaved Peppermint Candlebark

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	4	10%	SS
Prostrate Shrub	1	1%	PS
Large Herb	1	5%	LH
Medium Herb	2	5%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	3	10%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Bryophytes/Lichens	na	10%	BL
Total understorey projective foliage cover		60%	

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
MS	<i>Daviesia ulicifolia</i>	Gorse Bitter-pea
MS	<i>Daviesia mimosoides</i> s.l.	Blunt-leaf Bitter-pea
MS	<i>Leucopogon lanceolatus</i> var. <i>lanceolatus</i>	Lance Beard-heath
MS	r <i>Persoonia silvatica</i>	Forest Geebung
SS	<i>Tetralochebauerifolia</i>	Heath Pink-bells
SS	<i>Leucopogon hookeri</i>	Mountain Beard-heath
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
SS	<i>Podolobium procumbens</i>	Trailing Podolobium
PS	<i>Persoonia chamaepeuce</i>	Dwarf Geebung
LH	<i>Senecio minimus</i>	Shrubby Fireweed
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
LH	<i>Brachyscome aculeata</i>	Branching Daisy
MH	<i>Viola betonicifolia</i> ssp. <i>betonicifolia</i>	Showy Violet
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Veronica calycina</i>	Hairy Speedwell
SH	<i>Lobelia pedunculata</i> s.l.	Matted Pratia
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
MTG	<i>Joycea pallida</i>	Silvertop Wallaby-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	r <i>Poa clivicola</i>	Fine-leaf Snow-grass
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass

EVC 21: Shrubby Dry Forest - Monaro Tablelands bioregion

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
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	low
MH	<i>Hypochaeris radicata</i>	Cat's Ear	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	low
SH	<i>Trifolium repens</i> var. <i>repens</i>	White Clover	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Monaro Tablelands 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.

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 nortonii</i>	Silver Bundy
	<i>Eucalyptus bridgesiana</i> s.l.	But But
	<i>Eucalyptus consideriana</i>	Yertchuk

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	1	1%	MNG
Ground Fern	2	5%	GF
Scrambler or Climber	3	5%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

EVC 22: Grassy Dry Forest – Monaro Tablelands 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>Pimelea curviflora</i> s.l.	Curved Rice-flower
MS	<i>Monotoca scoparia</i>	Prickly Broom-heath
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Astroloma humifusum</i>	Cranberry Heath
LH	<i>Acaena agnipila</i>	Hairy Sheep's Burr
MH	<i>Plantago varia</i>	Variable Plantain
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
SH	<i>Desmodium varians</i>	Slender Tick-trefoil
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LNG	<i>Gahnia radula</i>	Thatch Saw-sedge
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MTG	<i>Themeda traindra</i>	Kangaroo Grass
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 caryophyllea</i>	Silvery Hair-grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Monaro Tablelands 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. Stand dynamics can resemble rainforest with long fire-free intervals. 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 – Monaro Tablelands bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Monaro Tablelands 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 Herbland.

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	10%	BL
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		75%	

LF Code	Species typical of at least part of EVC range	Common Name
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 iodochroa</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
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>Dianella tasmanica</i>	Tasman Flax-lily
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 - Monaro Tablelands bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Monaro Tablelands 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 obliqua</i>	Messmate Stringybark
	<i>Eucalyptus viminalis</i>	Manna Gum

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	3	15%	T
Medium Shrub	10	25%	MS
Small Shrub	3	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	3	10%	SC
Bryophytes/Lichens	na	20%	BL

EVC 29: Damp Forest – Monaro Tablelands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Leucopogon lanceolatus</i> var. <i>lanceolatus</i>	Lance Beard-heath
MS	<i>Goodia lotifolia</i>	Golden Tip
MS	<i>Olearia lirata</i>	Snowy Daisy-bush
SS	<i>Leucopogon hookeri</i>	Mountain Beard-heath
SS	<i>Olearia erubescens</i>	Moth Daisy-bush
SS	<i>Rubus parvifolius</i>	Small-leaf Bramble
PS	<i>Astroloma humifusum</i>	Cranberry Heath
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Senecio minimus</i>	Shrubby Fireweed
LH	<i>Xerochrysum bracteatum</i>	Golden Everlasting
LH	<i>Urtica incisa</i>	Scrub Nettle
LH	<i>Brachyscome aculeata</i>	Branching Daisy
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Geranium potentilloides</i>	Cinquefoil Cranesbill
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
SH	<i>Lobelia pedunculata</i> s.l.	Matted Pratia
SH	<i>Leptinella filicula</i>	Mountain Cotula
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Deyeuxia quadriseta</i>	Reed Bent-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	r <i>Poa clivicola</i>	Fine-leaf Snow-grass
MTG	<i>Austrodanthonia penicillata</i>	Slender Wallaby-grass
MTG	<i>Luzula meridionalis</i> var. <i>densiflora</i>	Common Woodrush
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
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Blechnum penna-marina</i> ssp. <i>alpina</i>	Alpine Water-fern
GF	<i>Blechnum nudum</i>	Fishbone Water-fern
TRF	<i>Cyathea australis</i>	Rough Tree-fern
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Glycine clandestina</i>	Twining Glycine

Recruitment:

Continuous

Organic Litter:

50% cover

Logs:

30 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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Monaro Tablelands bioregion

EVC 30: Wet Forest

Description:

Grows on fertile, well-drained loamy soils on a range of geologies and elevation levels within the relatively dry and cold tablelands. 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 fastigata</i>	Cut-tail

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
Small Shrub	3	5%	SS
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
Scrambler or Climber	4	10%	SC
Bryophytes/Lichens	na	20%	BL

EVC 30: Wet Forest – Monaro Tablelands bioregion

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>Olearia argophylla</i>	Musk Daisy-bush
T	<i>Bedfordia arborescens</i>	Blanket-leaf
MS	<i>Tasmania lanceolata</i>	Mountain Pepper
MS	<i>Leucopogon maccraei</i>	Subalpine Beard-heath
MS	<i>Pimelea ligustrina</i>	Tall Rice-flower
MS	<i>Polyscias sambucifolia</i>	Elderberry Panax
SS	<i>Leucopogon hookeri</i>	Mountain Beard-heath
SS	<i>Olearia myrsinoides</i>	Silky Daisy-bush
LH	<i>Senecio linearifolius</i>	Fireweed Groundsel
LH	<i>Veronica gracilis</i>	Slender Speedwell
LH	<i>Senecio pinnatifolius</i>	Variable Groundsel
LH	<i>Xerochrysum bracteatum</i>	Golden Everlasting
MH	<i>Stellaria flaccida</i>	Forest Starwort
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
SH	<i>Sphagnum cristatum</i>	Peat Moss
SH	<i>Leptinella filicula</i>	Mountain Cotula
SH	<i>Hypericum japonicum</i>	Matted St John's Wort
SH	<i>Lobelia pedunculata</i> s.l.	Matted Pratia
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LTG	<i>Carex appressa</i>	Tall Sedge
LTG	<i>Juncus alexandri</i> ssp. <i>alexandri</i>	Mountain Rush
LTG	<i>Deyeuxia brachyathera</i>	Short Bent-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Juncus planifolius</i>	Broad-leaf Rush
MTG	<i>Isolepis subtilissima</i>	Mountain Club-sedge
MTG	<i>Poa australis</i> spp. agg.	Tussock Grass
MNG	<i>Luzula campestris</i> spp. agg.	Field Woodrush
MNG	<i>Empodisma minus</i>	Spreading Rope-rush
MNG	<i>Baumea gunnii</i>	Slender Twig-sedge
GF	<i>Blechnum watsii</i>	Hard Water-fern
GF	<i>Blechnum nudum</i>	Fishbone Water-fern
GF	<i>Blechnum penna-marina</i> ssp. <i>alpina</i>	Alpine Water-fern
GF	<i>Grammitis billardierei</i>	Common Finger-fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
TRF	<i>Cyathea australis</i>	Rough Tree-fern
SC	<i>Clematis aristata</i>	Mountain Clematis

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

Monaro Tablelands 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	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>Tasmania 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 ssp. 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 ssp. 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 – Monaro Tablelands 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

Monaro Tablelands Bioregion

EVC 33: Cool Temperate Rainforest/Warm Temperate Rainforest

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:

Lifeform	#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%	TF
Epiphyte	4	5%	EP
Scrambler or Climber	7	20%	SC
Bryophytes/Lichens		20%	BL

EVC 33: Cool Temperate Rainforest/Warm Temperate Rainforest Overlap

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>	Eastern Leatherwood
T	<i>Pittosporum bicolor</i>	Banyalla
T	<i>Rapanea howittiana</i>	Mutton-wood
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Hedycarya angustifolia</i>	Austral Mulberry
MS	<i>Tasmannia lanceolata</i>	Mountain Pepper
MS	<i>Telopea oreades</i>	Gippsland Waratah
MH	<i>Australina pusilla</i> subsp. <i>muelleri</i>	Shade Nettle
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
GF	<i>Blechnum cartilagineum</i>	Gristle Fern
GF	<i>Blechnum patersonii</i> subsp. <i>patersonii</i>	Strap Water-fern
GF	<i>Lastreopsis acuminata</i>	Shiny Shield-fern
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
TF	v <i>Cyathea X marcescens</i>	Skirted Tree-fern
TF	<i>Cyathea australis</i>	Rough Tree-fern
TF	v <i>Cyathea cunninghamii</i>	Slender Tree-fern
TF	<i>Dicksonia antarctica</i>	Soft Tree-fern
EP	<i>Fieldia australis</i>	Fieldia
EP	<i>Grammitis billardierei</i>	Common Finger-fern
EP	<i>Hymenophyllum australe</i>	Austral Filmy-fern
EP	<i>Microsorium pustulatum</i> subsp. <i>pustulatum</i>	Kangaroo Fern
EP	<i>Microsorium scandens</i>	Fragrant Fern
SC	<i>Clematis aristata</i>	Mountain Clematis
SC	<i>Eustrephus latifolius</i>	Wombat Berry
SC	<i>Marsdenia rostrata</i>	Milk Vine
SC	<i>Smilax australis</i>	Austral Sarsaparilla

Recruitment:

Continuous.

Organic Litter:

50 % cover

Logs:

20 m/0.1ha.

Weediness: There are no consistent weeds in this EVC

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Monaro Tablelands 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, gently south-facing slopes and in gully heads on northern or western slopes in low relief montane areas. It occupies the transition zone between the Tablelands and the escarpment of the Highlands - Far East and can be extensive on virtually flat areas between Montane Dry Woodland and Wet Forest.

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 – Monaro Tablelands 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

Monaro Tablelands 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. The overstorey trees vary from an open forest to an open woodland to 15 m tall, according to altitude, precipitation and frequency of fire. The species list of understorey plants is an unusual combination of species, which tolerate exposed montane conditions and species which enjoy the increased moisture available from cloud and fog drip. The ground layer is usually dominated by tussock grasses.

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 croajingolensis</i>	Gippsland Peppermint
	<i>Eucalyptus rubida</i>	Candlebark
	<i>Eucalyptus dives</i>	Broad-leaved Peppermint

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	7	30%	MS
Small Shrub	4	10%	SS
Large Herb	2	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	6	15%	MTG
Medium to Tiny Non-tufted Graminoid	2	5%	MNG
Ground Fern	2	5%	GF
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

EVC 36: Montane Dry Woodland - Monaro Tablelands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
MS	r <i>Persoonia silvatica</i>	Forest Geebung
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Tasmannia lanceolata</i>	Mountain Pepper
SS	<i>Leucopogon hookeri</i>	Mountain Beard-heath
SS	<i>Tetradlea bauerifolia</i>	Heath Pink-bells
SS	<i>Olearia erubescens</i>	Moth Daisy-bush
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
LH	<i>Senecio minimus</i>	Shrubby Fireweed
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
MH	<i>Poranthera microphylla</i>	Small Poranthera
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
SH	<i>Leptinella filicula</i>	Mountain Cotula
SH	<i>Lobelia pedunculata s.l.</i>	Matted Pratia
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Stylidium graminifolium s.l.</i>	Grass Trigger-plant
MTG	<i>Poa ensiformis</i>	Sword Tussock-grass
MNG	<i>Microlaena stipoides var. 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:

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

Monaro Tablelands 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>Tetradlea 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 - Monaro Tablelands 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

Monaro Tablelands 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	3	20%	T
Medium Shrub	7	25%	MS
Small Shrub	2	5%	SS
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 - Monaro Tablelands bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
T	<i>Pittosporum bicolor</i>	Banyalla
T	<i>Telopea oreades</i>	Gippsland Waratah
T	r <i>Podocarpus lawrencei</i> ssp. nov. (Goonmirk Rocks)	Errinundra Plum-pine
MS	R r <i>Tasmannia xerophila</i> ssp. <i>robusta</i>	Errinundra Pepper
MS	<i>Leucopogon maccraei</i>	Subalpine Beard-heath
MS	<i>Tasmannia lanceolata</i>	Mountain Pepper
MS	<i>Olearia phlogopappa</i>	Dusty Daisy-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>Lagenophora stipitata</i>	Common Bottle-daisy
MH	<i>Geranium potentilloides</i>	Cinquefoil Cranesbill
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Stellaria flaccida</i>	Forest Starwort
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	r <i>Uncinia nemoralis</i>	River Hook-sedge
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Carex breviculmis</i>	Common Grass-sedge
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
GF	<i>Histiopteris incisa</i>	Bat's Wing Fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
SC	<i>Clematis aristata</i>	Mountain Clematis

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

Monaro Tablelands 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 - Monaro Tablelands 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

Monaro Tablelands 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
10%	<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	15%	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	1	1%	GF
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	20%	BL

Recruitment:

Continuous.

Organic Litter:

40 % cover

Logs:

15 m/0.1 ha.

EVC 40: Montane Riparian Woodland - Monaro Tablelands 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>Epacris microphylla</i> s.l.	Coral Heath
SS	<i>Rubus parvifolius</i>	Small-leaf Bramble
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 longebrachiata</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 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	high	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	low
MH	<i>Trifolium dubium</i>	Suckling Clover	high	low
MH	<i>Cerastium glomeratum</i> s.l.	Common Mouse-ear Chickweed	high	low
MH	<i>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

Monaro Tablelands 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.	50 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>Podolobium alpestre</i>	Alpine Podolobium
MS	<i>Olearia phlogopappa</i>	Dusty Daisy-bush
MS	<i>Tasmannia xerophila</i>	Alpine Pepper
SS	<i>Leucopogon hookeri</i>	Mountain Beard-heath
LH	<i>Senecio gunnii</i>	Mountain Fireweed
MH	<i>Stellaria pungens</i>	Prickly Starwort
MH	<i>Oreomyrrhis eriopoda</i>	Australian Caraway
MH	<i>Viola betonicifolia ssp. betonicifolia</i>	Showy Violet
MH	<i>Asperula gunnii</i>	Mountain Woodruff
MTG	<i>Stylidium graminifolium s.l.</i>	Grass Trigger-plant
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Poa australis spp. agg.</i>	Tussock Grass
MTG	<i>Carex breviculmis</i>	Common Grass-sedge
GF	<i>Polystichum proliferum</i>	Mother Shield-fern

EVC 43: Sub-alpine Woodland - Monaro Tablelands 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

Monaro Tablelands 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

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 – Monaro Tablelands 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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