

EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps bioregion

EVC 18: Riparian Forest

Description:

A tall forest of 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 eucalypts to 30 m tall, but also has an open to sparse secondary tree layer of wattles and scattered dense patches of shrubs, ferns, grasses and herbs.

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus chapmaniana</i>	Bogong Gum
	<i>Eucalyptus cypellocarpa</i>	Mountain Grey-gum
	<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	3	20%	T
Medium Shrub	7	30%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	2	1%	PS
Large Herb	5	10%	LH
Medium Herb	16	20%	MH
Small or Prostrate Herb	4	10%	SH
Medium to Small Tufted Graminoid	8	10%	MTG
Medium to Tiny Non-tufted Graminoid	4	5%	MNG
Ground Fern	3	10%	GF
Bryophytes/Lichens	na	20%	BL

EVC 18: Riparian Forest - Victorian Alps bioregion

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Daviesia ulicifolia</i>	Gorse Bitter-pea
MS	<i>Epacris impressa</i>	Common Heath
MS	<i>Cassinia aculeata</i>	Common Cassinia
MS	<i>Indigofera australis</i>	Austral Indigo
SS	<i>Tetralochea ciliata</i>	Pink-bells
SS	<i>Olearia myrsinoides</i>	Silky Daisy-bush
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Acrotriche prostrata</i>	Trailing Ground-berry
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Senecio linearifolius</i>	Fireweed Groundsel
LH	<i>Epilobium billardierianum</i> ssp. <i>cinereum</i>	Grey Willow-herb
MH	<i>Euchiton collinus</i> s.s.	Creeping Cudweed
MH	<i>Helichrysum scorpioides</i>	Button Everlasting
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
MH	<i>Stellaria pungens</i>	Prickly Starwort
SH	<i>Galium propinquum</i>	Maori Bedstraw
SH	<i>Galium ciliare</i>	Hairy Bedstraw
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Cymbonotus preissianus</i>	Austral Bear's-ear
MTG	<i>Poa sieberiana</i> var. <i>sieberiana</i>	Grey Tussock-grass
MTG	<i>Stylidium graminifolium</i> s.l.	Grass Trigger-plant
MTG	<i>Luzula meridionalis</i> var. <i>flaccida</i>	Common Woodrush
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Echinopogon ovatus</i>	Common Hedgehog-grass
MNG	<i>Deyeuxia rodwayi</i>	Tasman Bent-grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Asplenium flabellifolium</i>	Necklace Fern
SC	<i>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
MS	<i>Rubus fruticosus</i> spp. <i>agg.</i>	Blackberry	high	high
LH	<i>Sonchus oleraceus</i>	Common Sow-thistle	high	low
LH	<i>Rumex obtusifolius</i> ssp. <i>obtusifolius</i>	Broad-leaf Dock	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	low
MH	<i>Mimulus moschatus</i>	Musk Monkey-flower	high	low
MH	<i>Centaureum erythraea</i>	Common Centaury	high	low
MH	<i>Cerastium glomeratum</i> s.l.	Common Mouse-ear Chickweed	high	low
SH	<i>Trifolium repens</i> var. <i>repens</i>	White Clover	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MNG	<i>Aira caryophyllea</i>	Silvery Hair-grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps bioregion

EVC 19: Riparian Shrubland

Description:

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

Canopy Cover:

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

Understorey:

Life form	#Spp	%Cover	LF code
Medium Shrub	9	20%	MS
Medium Herb	2	5%	MH
Large Tufted Graminoid	1	10%	LTG
Medium to Small Tufted Graminoid	4	5%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	4	10%	GF
Tree Fern	2	1%	TRF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	20%	BL
Total understorey projective foliage cover		65%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Hedycarya angustifolia</i>	Austral Mulberry
MS	<i>Kunzea ericoides</i>	Burgan
MS	<i>Micrantheum hexandrum</i>	Box Micrantheum
MH	<i>Euchiton collinus</i> s.l.	Clustered/Creeping Cudweed
LTG	<i>Carex appressa</i>	Tall Sedge
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Poa ensiformis</i>	Sword Tussock-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Calochlaena dubia</i>	Common Ground-fern
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Blechnum minus</i>	Soft Water-fern
TRF	<i>Todea barbara</i>	Austral King-fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
SC	<i>Pandorea pandorana</i>	Wonga Vine

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

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

Weediness:

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

EVC 19: Riparian Shrubland - Victorian Alps bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps bioregion

EVC 20: Heathy Dry Forest

Description:

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

Large trees:

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

Tree Canopy Cover:

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

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	8	30%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	3	15%	PS
Large Herb	2	1%	LH
Medium Herb	4	5%	MH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	6	20%	MTG
Ground Fern	1	1%	GF
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

LF Code

Species typical of at least part of EVC range

Common Name

T	<i>Acacia dealbata</i>	Silver Wattle
MS	<i>Daviesia ulicifolia</i>	Gorse Bitter-pea
MS	<i>Persoonia confertiflora</i>	Cluster-flower Geebung
MS	<i>Monotoca scoparia</i>	Prickly Broom-heath
MS	<i>Pultenaea juniperina</i> s.l.	Prickly Bush-pea
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
SS	<i>Dillwynia phyllicoides</i>	Small-leaf Parrot-pea
PS	<i>Platylobium formosum</i>	Handsome Flat-pea
PS	<i>Persoonia chamaepeuce</i>	Dwarf Geebung
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Stellaria pungens</i>	Prickly Starwort
MH	<i>Poranthera microphylla</i>	Small Poranthera
MTG	<i>Joycea pallida</i>	Silvertop Wallaby-grass
MTG	<i>Stylidium graminifolium</i> s.l.	Grass Trigger-plant
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Clematis aristata</i>	Mountain Clematis

EVC 20: Heathy Dry Forest - Victorian Alps 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
MH	<i>Hypochaeris radicata</i>	Cat's Ear	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps bioregion

EVC 21: Shrubby Dry Forest

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus dives</i>	Broad-leaved Peppermint
	<i>Eucalyptus dalrympleana</i> ssp. <i>dalrympleana</i>	Mountain Gum

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Mallee Tree	1	5%	MT
Medium Shrub	8	40%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	2	5%	PS
Large Herb	3	5%	LH
Medium Herb	5	10%	MH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	4	10%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		85%	

LF Code

Species typical of at least part of EVC range

Common Name

T	<i>Acacia dealbata</i>	Silver Wattle
MS	<i>Monotoca scoparia</i>	Prickly Broom-heath
MS	<i>Coprosma hirtella</i>	Rough Coprosma
MS	<i>Daviesia latifolia</i>	Hop Bitter-pea
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
SS	<i>Olearia erubescens</i>	Moth Daisy-bush
PS	<i>Platylobium formosum</i>	Handsome Flat-pea
PS	<i>Persoonia chamaepeuce</i>	Dwarf Geebung
LH	<i>Derwentia perfoliata</i>	Digger's Speedwell
LH	<i>Wahlenbergia gracilis</i> s.l.	Sprawling Bluebell
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Stellaria pungens</i>	Prickly Starwort
MH	<i>Poranthera microphylla</i>	Small Poranthera
MH	<i>Helichrysum scorpioides</i>	Button Everlasting
LTG	<i>Lomandra longifolia</i> ssp. <i>exilis</i>	Cluster-headed Mat-rush
MTG	<i>Joycea pallida</i>	Silvertop Wallaby-grass
MTG	<i>Stylidium graminifolium</i> s.l.	Grass Trigger-plant
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Poa sieberiana</i> var. <i>sieberiana</i>	Grey Tussock-grass

EVC 21: Shrubby Dry Forest - Victorian Alps 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
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps bioregion

EVC 22: Grassy Dry Forest

Description:

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

Large trees:

Species

Eucalyptus spp.

DBH(cm)

60 cm

#/ha

20 / ha

Tree Canopy Cover:

%cover

30%

Character Species

Eucalyptus dives

Eucalyptus macrorhyncha

Eucalyptus goniocalyx s.l.

Common Name

Broad-leaved Peppermint

Red Stringybark

Bundy

Understorey:

Life form

Immature Canopy Tree
Understorey Tree or Large Shrub
Medium Shrub
Small Shrub
Prostrate Shrub
Large Herb
Medium Herb
Small or Prostrate Herb
Large Tufted Graminoid
Medium to Small Tufted Graminoid
Medium to Tiny Non-tufted Graminoid
Ground Fern
Scrambler or Climber
Bryophytes/Lichens
Soil Crust

#Spp

5%
1
4
3
2
3
11
3
1
7
2
1
1
na
na

%Cover

5%
5%
10%
5%
1%
5%
20%
5%
5%
20%
5%
5%
1%
10%
10%

LF code

IT
T
MS
SS
PS
LH
MH
SH
LTG
MTG
MNG
GF
SC
BL
S/C

EVC 22: Grassy Dry Forest - Victorian Alps bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
MS	<i>Cassinia aculeata</i>	Common Cassinia
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
SS	<i>Pimelea linifolia</i>	Slender Rice-flower
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
SS	<i>Hovea heterophylla</i>	Common Hovea
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Platylobium formosum</i>	Handsome Flat-pea
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Senecio quadridentatus</i>	Cotton Fireweed
MH	<i>Epilobium billardierianum</i>	Variable Willow-herb
MH	<i>Hypericum gramineum</i>	Small St John's Wort
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
SH	<i>Poranthera microphylla</i>	Small Poranthera
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Cymbonotus preissianus</i>	Austral Bear's-ear
MTG	<i>Joycea pallida</i>	Silvertop Wallaby-grass
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Echinopogon ovatus</i>	Common Hedgehog-grass
GF	<i>Cheilanthes austrotenuifolia</i>	Green Rock-fern
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Hardenbergia violacea</i>	Purple Coral-pea

Recruitment:

Continuous

Organic Litter:

20 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Centaurium erythraea</i>	Common Centaury	high	low
MH	<i>Anagallis arvensis</i>	Pimpernel	high	low
MH	<i>Trifolium arvense</i> var. <i>arvense</i>	Hare's-foot Clover	high	low
MTG	<i>Briza minor</i>	Lesser Quaking-grass	high	low
MTG	<i>Vulpia bromoides</i>	Squirrel-tail Fescue	high	low
MNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps bioregion

EVC 23: Herb-rich Foothill Forest

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus radiata</i> s.l.	Narrow-leaf Peppermint
	<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	6	20%	MS
Small Shrub	3	10%	SS
Prostrate Shrub	2	5%	PS
Large Herb	4	5%	LH
Medium Herb	12	20%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	6	20%	MTG
Medium to Tiny Non-tufted Graminoid	1	5%	MNG
Ground Fern	2	15%	GF
Scrambler or Climber	1	5%	SC
Bryophytes/Lichens	na	20%	BL

EVC 23: Herb-rich Foothill Forest - Victorian Alps bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Acacia dealbata</i>	Silver Wattle
MS	<i>Cassinia aculeata</i>	Common Cassinia
MS	<i>Coprosma hirtella</i>	Rough Coprosma
MS	<i>Daviesia leptophylla</i>	Narrow-leaf Bitter-pea
MS	<i>Daviesia ulicifolia</i>	Gorse Bitter-pea
SS	<i>Tetratheca ciliata</i>	Pink-bells
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
SS	<i>Olearia erubescens</i>	Moth Daisy-bush
SS	<i>Ozothamnus thyrsoides</i>	Sticky Everlasting
PS	<i>Acrotriche serrulata</i>	Honey-pots
PS	<i>Acrotriche prostrata</i>	Trailing Ground-berry
PS	<i>Platylobium formosum</i>	Handsome Flat-pea
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Chrysocephalum semipapposum</i>	Clustered Everlasting
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Hypericum gramineum</i>	Small St John's Wort
MH	<i>Viola betonicifolia ssp. betonicifolia</i>	Showy Violet
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Chiloglottis gunnii s.l.</i>	Common Bird-orchid
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Stylidium graminifolium s.l.</i>	Grass Trigger-plant
MTG	<i>Poa sieberiana var. sieberiana</i>	Grey Tussock-grass
MTG	<i>Joycea pallida</i>	Silvertop Wallaby-grass
MNG	<i>Microlaena stipoides var. stipoides</i>	Weeping Grass
MNG	<i>Deyeuxia rodwayi</i>	Tasman Bent-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:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Solanum nigrum sensu Willis (1972)</i>	Black Nightshade	low	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps bioregion

EVC 27: Blackthorn Scrub

Description:

Occurs 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 large shrub layer to 10 m tall is a dominant feature, often forming even-aged stands of uniform height. The ground layer is generally sparse and species-poor due to low site quality and the density of the overstorey. Vines can be conspicuous in the understorey.

Canopy Cover:

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

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Medium Shrub	5	20%	MS
Medium Herb	2	1%	MH
Medium to Small Tufted Graminoid	3	5%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	2	5%	GF
Epiphyte	2	1%	EP
Scrambler or Climber	2	1%	SC
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		45%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Philotheca trachyphylla</i>	Rock Wax-flower
MS	<i>Cassinia trinerva</i>	Three-nerved Cassinia
MS	<i>Kunzea ericoides</i>	Burgan
MS	<i>Olearia lirata</i>	Snowy Daisy-bush
MH	<i>Stellaria flaccida</i>	Forest Starwort
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Notodanthonia longifolia</i>	Long-leaf Wallaby-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Asplenium flabellifolium</i>	Necklace Fern
SC	<i>Pandorea pandorana</i>	Wonga Vine

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 - Victorian Alps bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps 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 4 m tall characterises this EVC, including a number of rock-adapted species. The ground layer is usually sparse and species-poor except where it occurs in discrete patches and forms a mosaic with Rocky Outcrop Hermland.

Understorey:

Life form	#Spp	%Cover	LF code
Medium Shrub	7	30%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	2	5%	LH
Medium Herb	2	1%	MH
Medium to Small Tufted Graminoid	4	5%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	1	1%	GF
Scrambler or climber	1	1%	SC
Bryophytes/Lichens	na	20%	BL
Soil Crust	na	10%	S/C
Total understorey projective foliage cover		65%	

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Leucopogon fletcheri</i> ssp. <i>brevisepalus</i>	Twin-flower Beard-heath
MS	<i>Platysace lanceolata</i>	Shrubby Platysace
MS	<i>Ozothamnus obcordatus</i>	Grey Everlasting
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
SS	<i>Phyllanthus hirtellus</i>	Thyme Spurge
SS	<i>Hibbertia riparia</i>	Erect Guinea-flower
LH	<i>Stypandra glauca</i>	Nodding Blue-lily
LH	<i>Wahlenbergia gracilis</i> s.l.	Sprawling Bluebell
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
MH	<i>Pomax umbellata</i>	Pomax
MH	<i>Stellaria pungens</i>	Prickly Starwort
MH	<i>Leucochrysum albicans</i>	Hoary Sunray
MH	<i>Isotoma axillaris</i>	Rock Isotome
MTG	<i>Joycea pallida</i>	Silvertop Wallaby-grass
MTG	<i>Lepidosperma laterale</i>	Variable Sword-sedge
MTG	<i>Lomandra filiformis</i>	Wattle Mat-rush
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
GF	<i>Cheilanthes austrotenuifolia</i>	Green Rock-fern
SC	<i>Cassytha melantha</i>	Coarse Dodder-laurel
SC	<i>Hardenbergia violacea</i>	Purple Coral-pea

Recruitment:

Continuous

Organic Litter:

40 % cover

Weediness:

There are no consistent weeds in this EVC.

EVC 28: Rocky Outcrop Shrubland - Victorian Alps bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps 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.

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus regnans</i>	Mountain Ash
	<i>Eucalyptus cypellocarpa</i>	Mountain Grey-gum

Understorey:

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

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Olearia argophylla</i>	Musk Daisy-bush
T	<i>Acacia dealbata</i>	Silver Wattle
MS	<i>Coprosma hirtella</i>	Rough Coprosma
MS	<i>Olearia phlogopappa</i>	Dusty Daisy-bush
MS	<i>Pimelea axiflora</i>	Bootlace Bush
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
LH	<i>Urtica incisa</i>	Scrub Nettle
LH	<i>Mentha laxiflora</i>	Forest Mint
MH	<i>Stellaria flaccida</i>	Forest Starwort
MH	<i>Australina pusilla</i> ssp. <i>muelleri</i>	Shade Nettle
MH	<i>Sambucus gaudichaudiana</i>	White Elderberry
MH	<i>Geranium potentilloides</i>	Cinquefoil Cranesbill
SH	<i>Galium propinquum</i>	Maori Bedstraw
SH	<i>Oxalis corniculata</i> s.l.	Yellow Wood-sorrel
SH	<i>Leptinella filicula</i>	Mountain Cotula
LTG	<i>Lepidosperma elatius</i>	Tall Sword-sedge
MTG	<i>Poa australis</i> spp. <i>agg.</i>	Tussock Grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Blechnum nudum</i>	Fishbone Water-fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
SC	<i>Clematis aristata</i>	Mountain Clematis

EVC 29: Damp Forest - Victorian Alps bioregion

Recruitment:

Continuous

Organic Litter:

50 % cover

Logs:

30 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
LH	<i>Solanum nigrum sensu Willis (1972)</i>	Black Nightshade	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps bioregion

EVC 30: Wet Forest

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus delegatensis</i> ssp. <i>delegatensis</i> <i>Eucalyptus regnans</i>	Alpine Ash Mountain Ash

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	3	25%	T
Medium Shrub	7	15%	MS
Large Herb	2	5%	LH
Medium Herb	6	10%	MH
Small or Prostrate Herb	1	1%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	2	5%	MTG
Ground Fern	4	25%	GF
Tree Fern	1	15%	TRF
Scrambler or Climber	1	5%	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>Pittosporum bicolor</i>	Banyalla
MS	<i>Olearia phlogopappa</i>	Dusty Daisy-bush
MS	<i>Polyscias sambucifolia</i>	Elderberry Panax
MS	<i>Cassinia aculeata</i>	Common Cassinia
MS	<i>Coprosma hirtella</i>	Rough Coprosma
LH	<i>Urtica incisa</i>	Scrub Nettle
LH	<i>Senecio linearifolius</i>	Fireweed Groundsel
LH	<i>Mentha laxiflora</i>	Forest Mint
MH	<i>Stellaria flaccida</i>	Forest Starwort
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
MH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
MH	<i>Geranium potentilloides</i>	Cinquefoil Cranesbill
SH	<i>Leptinella filicula</i>	Mountain Cotula
LTG	<i>Carex appressa</i>	Tall Sedge
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Poa ensiformis</i>	Sword Tussock-grass
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Blechnum wattsi</i>	Hard Water-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

EVC 30: Wet Forest - Victorian Alps 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

Victorian Alps bioregion

EVC 31: Cool Temperate Rainforest

Description:

Closed non-eucalypt forest to 25 m tall with occasional emergent eucalypts. Generally restricted to deeply incised gullies and gully-heads with southern aspects. Soils are well-developed gradational clay or sandy clay loams high in humus content. Rainfall is in the order of 1000-2000 mm a year.

Large trees:

Species	DBH(cm)	#/ha
Various genera	70 cm	20 / ha

Tree Canopy Cover:

%cover	Character Species	Common Name
50%	<i>Nothofagus cunninghamii</i>	Myrtle Beech
	<i>Atherosperma moschatum</i>	Southern Sassafras
	<i>Acacia dealbata</i>	Silver Wattle

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	1	5%	SS
Large Herb	1	1%	LH
Medium Herb	4	5%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	2	10%	MTG
Ground Fern	5	25%	GF
Tree Fern	1	10%	TRF
Bryophytes/Lichens	na	40%	BL

LF Code

Species typical of at least part of EVC range

Common Name

MS	<i>Olearia phlogopappa</i>	Dusty Daisy-bush
MS	<i>Polyscias sambucifolia</i>	Elderberry Panax
MS	<i>Tasmannia lanceolata</i>	Mountain Pepper
MS	<i>Coprosma hirtella</i>	Rough Coprosma
SS	<i>Wittsteinia vacciniacea</i>	Baw Baw Berry
MH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
MH	<i>Australina pusilla ssp. muelleri</i>	Shade Nettle
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
MH	<i>Viola hederacea sensu Willis (1972)</i>	Ivy-leaf Violet
LTG	<i>Carex appressa</i>	Tall Sedge
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Libertia pulchella</i>	Pretty Grass-flag
MTG	<i>Poa ensiformis</i>	Sword Tussock-grass
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Blechnum wattsi</i>	Hard Water-fern
GF	<i>Grammitis billardieri</i>	Common Finger-fern
GF	<i>Blechnum fluviatile</i>	Ray Water-fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
SC	<i>Clematis aristata</i>	Mountain Clematis

EVC 31: Cool Temperate Rainforest - Victorian Alps 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

Victorian Alps 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 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	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
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 obliquinervia</i>	Mountain Hickory Wattle
MS	<i>Polyscias sambucifolia</i>	Elderberry Panax
MS	<i>Coprosma hirtella</i>	Rough Coprosma
MS	<i>Olearia phlogopappa</i>	Dusty Daisy-bush
MS	<i>Cassinia aculeata</i>	Common Cassinia
SS	<i>Leucopogon hookeri</i>	Mountain Beard-heath
LH	<i>Derwentia derwentiana</i>	Derwent Speedwell
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
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
SH	<i>Leptinella filicula</i>	Mountain Cotula
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Stylidium graminifolium</i> s.l.	Grass Trigger-plant
MTG	<i>Poa ensiformis</i>	Sword Tussock-grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Polystichum proliferum</i>	Mother Shield-fern

EVC 35: Tableland Damp Forest - Victorian Alps 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

Victorian Alps 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 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. Generally the lower rainfall, less fertile geologies support a shrubby understorey with a lower overall species diversity. The ground layer is rarely high in grass and herb cover and is usually dominated by tussock grasses.

Large trees:

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

Tree Canopy Cover:

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

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 - Victorian Alps 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>Polyscias sambucifolia</i>	Elderberry Panax
MS	<i>Daviesia ulicifolia</i>	Gorse Bitter-pea
MS	<i>Cassinia aculeata</i>	Common Cassinia
SS	<i>Olearia erubescens</i>	Moth Daisy-bush
SS	<i>Leucopogon hookeri</i>	Mountain Beard-heath
SS	<i>Platylobium formosum</i>	Handsome Flat-pea
LH	<i>Derwentia derwentiana</i>	Derwent Speedwell
MH	<i>Stellaria pungens</i>	Prickly Starwort
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Viola betonicifolia ssp. 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 s.l.</i>	Grass Trigger-plant
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Arthropodium milleflorum s.l.</i>	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

Victorian Alps bioregion

EVC 37: Montane Grassy Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus pauciflora</i>	Snow Gum
	<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	6	20%	MS
Small Shrub	3	10%	SS
Prostrate Shrub	2	5%	PS
Large Herb	2	5%	LH
Medium Herb	15	20%	MH
Small or Prostrate Herb	3	10%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	7	20%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	1	1%	GF
Bryophytes/Lichens	na	10%	BL
Soil Crust	na	10%	S/C

EVC 37: Montane Grassy Woodland - Victorian Alps bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
MS	<i>Cassinia aculeata</i>	Common Cassinia
MS	<i>Pultenaea juniperina s.l.</i>	Prickly Bush-pea
MS	<i>Pimelea linifolia</i>	Slender Rice-flower
MS	<i>Brachyloma daphnoides</i>	Daphne Heath
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
SS	<i>Olearia erubescens</i>	Moth Daisy-bush
SS	<i>Leucopogon hookeri</i>	Mountain Beard-heath
PS	<i>Platylobium formosum</i>	Handsome Flat-pea
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Viola betonicifolia ssp. betonicifolia</i>	Showy Violet
MH	<i>Stellaria pungens</i>	Prickly Starwort
SH	<i>Chiloglottis gunnii s.l.</i>	Common Bird-orchid
SH	<i>Galium ciliare</i>	Hairy Bedstraw
SH	<i>Leptinella filicula</i>	Mountain Cotula
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	<i>Stylidium graminifolium s.l.</i>	Grass Trigger-plant
MTG	<i>Themeda triandra</i>	Kangaroo Grass
MTG	<i>Luzula meridionalis var. flaccida</i>	Common Woodrush
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Glycine clandestina</i>	Twining Glycine

Recruitment:
Continuous

Organic Litter:
20 % cover

Logs:
15 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Cerastium glomeratum s.l.</i>	Common Mouse-ear Chickweed	high	low
MH	<i>Centaurea erythraea</i>	Common Centaury	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	low
MH	<i>Taraxacum officinale spp. agg.</i>	Garden Dandelion	high	low
SH	<i>Trifolium repens var. repens</i>	White Clover	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps 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 dalrympleana</i> ssp. <i>dalrympleana</i>	Mountain Gum

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
Large Herb	3	5%	LH
Medium Herb	10	15%	MH
Small or Prostrate Herb	2	5%	SH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	6	15%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	2	10%	GF
Scrambler or Climber	1	5%	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 obliquinervia</i>	Mountain Hickory Wattle
MS	<i>Coprosma hirtella</i>	Rough Coprosma
MS	<i>Polyscias sambucifolia</i>	Elderberry Panax
MS	<i>Olearia phlogopappa</i>	Dusty Daisy-bush
MS	<i>Cassinia aculeata</i>	Common Cassinia
SS	<i>Olearia erubescens</i>	Moth Daisy-bush
SS	<i>Leucopogon hookeri</i>	Mountain Beard-heath
SS	<i>Platylobium formosum</i>	Handsome Flat-pea
LH	<i>Derwentia derwentiana</i>	Derwent Speedwell
LH	<i>Senecio linearifolius</i>	Fireweed Groundsel
LH	<i>Picris angustifolia</i>	Native Picris
MH	<i>Stellaria pungens</i>	Prickly Starwort
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Viola betonicifolia</i> ssp. <i>betonicifolia</i>	Showy Violet
SH	<i>Leptinella filicula</i>	Mountain Cotula
SH	<i>Chiloglottis gunnii</i> s.l.	Common Bird-orchid
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Poa ensiformis</i>	Sword Tussock-grass
MTG	<i>Stylidium graminifolium</i> s.l.	Grass Trigger-plant
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Pteridium esculentum</i>	Austral Bracken
SC	<i>Clematis aristata</i>	Mountain Clematis

EVC 38: Montane Damp Forest - Victorian Alps bioregion

Recruitment:

Continuous

Organic Litter:

50 % cover

Logs:

30 m/0.1 ha.

Weediness:

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps 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 regnans</i>	Mountain Ash
	<i>Euclayptus 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	20%	T
Medium Shrub	5	25%	MS
Large Herb	2	5%	LH
Medium Herb	5	15%	MH
Small or Prostrate Herb	2	1%	SH
Large Tufted Graminoid	1	1%	LTG
Large Non-tufted Graminoid	1	1%	LNG
Medium to Small Tufted Graminoid	1	5%	MTG
Ground Fern	3	25%	GF
Tree Fern	2	5%	TRF
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>Acacia dealbata</i>	Silver Wattle
T	<i>Olearia argophylla</i>	Musk Daisy-bush
MS	<i>Olearia phlogopappa</i>	Dusty Daisy-bush
MS	<i>Polyscias sambucifolia</i>	Elderberry Panax
MS	<i>Cassinia aculeata</i>	Common Cassinia
MS	<i>Tasmannia lanceolata</i>	Mountain Pepper
LH	<i>Senecio linearifolius</i>	Fireweed Groundsel
LH	<i>Mentha laxiflora</i>	Forest Mint
MH	<i>Sambucus gaudichaudiana</i>	White Elderberry
MH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Stellaria flaccida</i>	Forest Starwort
SH	<i>Leptostigma reptans</i>	Dwarf Nertera
LTG	<i>Dryopoa dives</i>	Giant Mountain-grass
LNG	<i>Tetrarrhena juncea</i>	Forest Wire-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Poa ensiformis</i>	Sword Tussock-grass
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Histiopteris incisa</i>	Bat's Wing Fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern
SC	<i>Clematis aristata</i>	Mountain Clematis

EVC 39: Montane Wet Forest - Victorian Alps 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

Victorian Alps 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.

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

Large trees⁺:

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

Tree Canopy Cover⁺:

%cover	Character Species	Common Name
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	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	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 - Victorian Alps 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	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

Victorian Alps Bioregion

EVC 40_61: Treed 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	10 / ha

Tree Canopy Cover:

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

Understorey:

Lifeform	#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	2	5%	GF
Bryophytes/Lichens		20%	BL

EVC 40_61: Treed Montane Riparian Woodland

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

Recruitment:

Continuous.

Organic Litter:

40 % cover

Logs:

15 m/0.1ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Prunella vulgaris</i>	Self-heal	high	high
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	high
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
SH	<i>Trifolium repens</i> var. <i>repens</i>	White Clover	high	high
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high
LH	<i>Rumex crispus</i>	Curled Dock	high	high
MS	<i>Rosa rubiginosa</i>	Sweet Briar	high	high
MH	<i>Acetosella vulgaris</i>	Sheep Sorrel	high	high
MH	<i>Batrachium trichophyllum</i>	Water Fennel	high	high
MH	<i>Cerastium glomeratum</i> s.l.	Common Mouse-ear Chickweed	high	low

EVC 40_61: Treed Montane Riparian Woodland

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MH	<i>Taraxacum officinale</i> spp. agg.	Garden Dandelion	high	low
MH	<i>Trifolium dubium</i>	Suckling Clover	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MNG	<i>Aira elegantissima</i>	Delicate Hair-grass	high	low
MNG	<i>Aira caryophylla</i>	Silvery Hair-grass	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps 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
40%

Character Species

Leptospermum grandifolium
Nothofagus cunninghamii

Common Name

Mountain Tea-tree
Myrtle Beech

Understorey:

Life form

Medium Shrub

Small or Prostrate Herb

Large Tufted Graminoid

Medium to Small Tufted Graminoid

Ground Fern

Tree Fern

Epiphyte

Bryophytes/Lichens

#Spp

1

1

2

2

3

1

2

na

%Cover

5%

1%

40%

1%

20%

5%

1%

20 %

LF code

MS

SH

LTG

MTG

GF

TRF

EP

BL

Total understorey projective foliage cover

95%

LF Code

MS

SH

SH

LTG

LTG

MTG

MTG

MTG

GF

GF

GF

GF

TRF

TRF

EP

EP

Species typical of at least part of EVC range

Tasmanian lanceolata

Chiloglottis gunnii s.l.

Chiloglottis cornuta

Gahnia sieberiana

Juncus usitatus

Isolepis subtilissima

Dianella tasmanica

Carex alsophila

Grammitis billardiarei

Blechnum wattsii

Polystichum proliferum

Blechnum nudum

Todea barbara

Dicksonia antarctica

Microsorium pustulatum ssp. pustulatum

Hymenophyllum peltatum

Common Name

Mountain Pepper

Common Bird-orchid

Green Bird-orchid

Red-fruit Saw-sedge

Billabong Rush

Mountain Club-sedge

Tasman Flax-lily

Forest Sedge

Common Finger-fern

Hard Water-fern

Mother Shield-fern

Fishbone Water-fern

Austral King-fern

Soft Tree-fern

Kangaroo Fern

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 - Victorian Alps bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps bioregion

EVC 42: Sub-alpine Shrubland

Description:

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

Life forms:

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

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

EVC 42: Sub-alpine Shrubland - Victorian Alps bioregion

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

10 m/0.1 ha.

Weediness:

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps bioregion

EVC 43: Sub-alpine Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

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

Understorey:

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

LF Code

Species typical of at least part of EVC range

T	<i>Acacia obliquinervia</i>
MS	<i>Podolobium alpestre</i>
MS	<i>Olearia phlogopappa</i>
MS	<i>Tasmannia xerophila</i>
SS	<i>Leucopogon hookeri</i>
LH	<i>Senecio gunnii</i>
MH	<i>Stellaria pungens</i>
MH	<i>Oreomyrrhis eriopoda</i>
MH	<i>Viola betonicifolia</i> ssp. <i>betonicifolia</i>
MH	<i>Asperula gunnii</i>
MTG	<i>Stylidium graminifolium</i> s.l.
MTG	<i>Dianella tasmanica</i>
MTG	<i>Poa australis</i> spp. <i>agg.</i>
MTG	<i>Carex breviculmis</i>
GF	<i>Polystichum proliferum</i>

Common Name

Mountain Hickory Wattle
Alpine Podolobium
Dusty Daisy-bush
Alpine Pepper
Mountain Beard-heath
Mountain Fireweed
Prickly Starwort
Australian Caraway
Showy Violet
Mountain Woodruff
Grass Trigger-plant
Tasman Flax-lily
Tussock Grass
Common Grass-sedge
Mother Shield-fern

EVC 43: Sub-alpine Woodland - Victorian Alps 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

Victorian Alps bioregion

EVC 45: Shrubby Foothill Forest

Description:

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

Large trees:

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

Tree Canopy Cover:

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

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	8	35%	MS
Small Shrub	2	10%	SS
Prostrate Shrub	2	5%	PS
Large Herb	2	5%	LH
Medium Herb	1	1%	MH
Small or Prostrate Herb	1	1%	SH
Medium to Small Tufted Graminoid	3	5%	MTG
Epiphyte	1	1%	EP
Bryophytes/Lichens	na	10%	BL
Total understorey projective foliage cover		55%	

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia obliquinervia</i>	Mountain Hickory Wattle
MS	<i>Monotoca scoparia</i>	Prickly Broom-heath
MS	<i>Daviesia ulicifolia</i>	Gorse Bitter-pea
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Exocarpos strictus</i>	Pale-fruit Ballart
SS	<i>Rhytidosporum procumbens</i>	White Marianth
PS	<i>Persoonia chamaepeuce</i>	Dwarf Geebung
PS	<i>Acrotriche serrulata</i>	Honey-pots
LH	<i>Senecio tenuiflorus</i>	Slender Fireweed
LH	<i>Chrysocephalum semipapposum</i>	Clustered Everlasting
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
SH	<i>Goodenia lanata</i>	Trailing Goodenia
MTG	<i>Stylidium graminifolium</i> s.l.	Grass Trigger-plant
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
SC	<i>Cassytha glabella</i>	Slender Dodder-laurel

EVC 45: Shrubby Foothill Forest - Victorian Alps bioregion

Recruitment:

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

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

There are no consistent weeds in this EVC.

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps bioregion

EVC 72: Granitic Hills Woodland

Description:

Mainly restricted to granite rocky outcrops and structurally consists of a low woodland to 10 m high with the dominant trees often being stunted.

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 nortonii</i>	Silver Bundy
	<i>Eucalyptus macrorhyncha</i>	Red Stringybark
	<i>Eucalyptus goniocalyx</i> s.l.	Bundy

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	1	5%	T
Medium Shrub	4	20%	MS
Small Shrub	3	20%	SS
Large Herb	2	5%	LH
Medium Herb	11	20%	MH
Medium to Small Tufted Graminoid	4	5%	MTG
Medium to Tiny Non-tufted Graminoid	3	5%	MNG
Ground Fern	1	1%	GF
Bryophytes/Lichens	na	10%	BL
Total understorey projective foliage coverage		70%	

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Allocasuarina verticillata</i>	Drooping Sheoak
MS	<i>Calytrix tetragona</i>	Common Fringe-myrtle
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Grevillea jephcottii</i>	Green Grevillea
MS	<i>Acacia verniciflua</i>	Varnish Wattle
SS	<i>Micromyrtus ciliata</i>	Heath-myrtle
SS	<i>Tetradlea ciliata</i>	Pink-bells
SS	<i>Dillwynia sericea</i> s.l.	Showy Parrot-pea
LH	<i>Stackhousia viminea</i>	Slender Stackhousia
LH	<i>Derwentia perfoliata</i>	Digger's Speedwell
MH	<i>Euchiton collinus</i> s.s.	Creeping Cudweed
MH	<i>Drosera peltata</i>	Pale Sundew
MH	<i>Daucus glochidiatus</i>	Australian Carrot
MH	<i>Gonocarpus elatus</i>	Tall Raspwort
MTG	<i>Dichelachne sieberiana</i>	Rough Plume-grass
MTG	<i>Poa sieberiana</i> var. <i>cyanophylla</i>	Blue-leaf Tussock-grass
MTG	<i>Juncus bufonius</i>	Toad Rush
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Cheilanthes sieberi</i> ssp. <i>sieberi</i>	Narrow Rock-fern

EVC 72: Granitic Hills Woodland - Victorian Alps bioregion

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
MH	<i>Centaureum erythraea</i>	Common Centaury	high	low
MNG	<i>Aira</i> spp.	Hair Grass	high	low
Und	<i>Vulpia</i> spp.	Fescue	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps bioregion

EVC 82: Riverine Escarpment Scrub

Description:

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

Canopy Cover:

%cover
30%

Character Species

Acacia melanoxylon
Pomaderris aspera
Acacia dealbata

Common Name

Blackwood
Hazel Pomaderris
Silver Wattle

Understorey:

Life form

Immature Canopy Shrub
Medium Shrub
Small Shrub
Prostrate Shrub
Large Herb
Medium Herb
Small or Prostrate Herb
Large Tufted Graminoid
Medium to Small Tufted Graminoid
Medium to Tiny Non-tufted Graminoid
Ground Fern
Scrambler or Climber
Bryophytes/Lichens

#Spp

8
2
1
2
12
3
4
3
2
3
1
na

%Cover

5%
30%
1%
1%
5%
20%
5%
15%
10%
5%
10%
5%

LF code

IT
MS
SS
PS
LH
MH
SH
LTG
MTG
MNG
GF
SC
BL

LF Code

MS
MS
MS
MS
SS
SS
PS
LH
LH
MH
MH
MH
MH
SH
SH
LTG
LTG
LTG
LTG
MTG
MTG
MNG
GF
GF
GF
GF

Species typical of at least part of EVC range

Coprosma quadrifida
Lomatia myricoides
Leptospermum brevipes
Kunzea ericoides
Leucopogon hookeri
Platylobium formosum
Acrotriche serrulata
Epilobium billardierianum ssp. *hydrophilum*
Senecio tenuiflorus
Ajuga australis
Acaena novae-zelandiae
Lagenophora stipitata
Viola hederacea sensu Willis (1972)
Dichondra repens
Hydrocotyle laxiflora
Cyperus lucidus
Carex appressa
Lomandra longifolia
Poa labillardierei var. *labillardierei*
Poa sieberiana var. *sieberiana*
Dianella tasmanica
Microlaena stipoides var. *stipoides*
Pteridium esculentum
Polystichum proliferum
Adiantum aethiopicum
Blechnum nudum

Common Name

Prickly Currant-bush
River Lomatia
Slender Tea-tree
Burgan
Mountain Beard-heath
Handsome Flat-pea
Honey-pots
Robust Willow-herb
Slender Fireweed
Austral Bugle
Bidgee-widgee
Common Bottle-daisy
Ivy-leaf Violet
Kidney-weed
Stinking Pennywort
Leafy Flat-sedge
Tall Sedge
Spiny-headed Mat-rush
Common Tussock-grass
Grey Tussock-grass
Tasman Flax-lily
Weeping Grass
Austral Bracken
Mother Shield-fern
Common Maidenhair
Fishbone Water-fern

EVC 82: Riverine Escarpment Scrub - Victorian Alps bioregion

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

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

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	<i>Rosa rubiginosa</i>	Sweet Briar	high	high
MS	<i>Rubus</i> sp. aff. <i>armeniacus</i>	Blackberry	high	high
MS	<i>Rubus fruticosus</i> spp. agg.	Blackberry	high	high
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Centaureum erythraea</i>	Common Centaury	high	low
MH	<i>Prunella vulgaris</i>	Self-heal	high	high
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps bioregion

EVC 83: Swampy Riparian Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
20%	<i>Eucalyptus camphora</i> ssp. <i>humeana</i> <i>Eucalyptus radiata</i> s.l.	Mountain Swamp-gum 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	5	10%	MS
Small Shrub	1	1%	SS
Large Herb	3	5%	LH
Medium Herb	8	15%	MH
Small or Prostrate Herb	4	5%	SH
Large Tufted Graminoid	5	30%	LTG
Large Non-tufted Graminoid	2	5%	LNG
Medium to Small Tufted Graminoid	3	5%	MTG
Medium to Tiny Non-tufted Graminoid	3	5%	MNG
Ground Fern	4	10%	GF
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	20%	BL

EVC 83: Swampy Riparian Woodland - Victorian Alps bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia melanoxylon</i>	Blackwood
T	<i>Acacia dealbata</i>	Silver Wattle
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Leptospermum continentale</i>	Prickly Tea-tree
MS	<i>Epacris breviflora</i>	Drumstick Heath
SS	<i>Rubus parvifolius</i>	Small-leaf Bramble
LH	<i>Mentha laxiflora</i>	Forest Mint
LH	<i>Epilobium gunnianum</i>	Gunn's Willow-herb
LH	<i>Urtica incisa</i>	Scrub Nettle
LH	<i>Senecio minimus</i>	Shrubby Fireweed
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
MH	<i>Geranium potentilloides</i>	Cinquefoil Cranesbill
MH	<i>Asperula scoparia</i>	Prickly Woodruff
SH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
SH	<i>Dichondra repens</i>	Kidney-weed
SH	<i>Hypericum japonicum</i>	Matted St John's Wort
SH	<i>Gonocarpus micranthus</i> ssp. <i>micranthus</i>	Creeping Raspwort
SH	<i>Hydrocotyle tripartita</i>	Slender Pennywort
LTG	<i>Cyperus lucidus</i>	Leafy Flat-sedge
LTG	<i>Carex appressa</i>	Tall Sedge
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LTG	<i>Poa labillardierei</i>	Common Tussock-grass
LNG	<i>Phragmites australis</i>	Common Reed
MTG	<i>Poa ensiformis</i>	Sword Tussock-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
MNG	<i>Eleocharis gracilis</i>	Slender Spike-sedge
MNG	<i>Echinopogon ovatus</i>	Common Hedgehog-grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Blechnum nudum</i>	Fishbone Water-fern
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Blechnum minus</i>	Soft Water-fern
TRF	<i>Dicksonia antarctica</i>	Soft Tree-fern

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
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
MH	<i>Mimulus moschatus</i>	Musk Monkey-flower	high	low
MH	<i>Lotus corniculatus</i>	Bird's-foot Trefoil	high	high
SH	<i>Trifolium repens</i> var. <i>repens</i>	White Clover	high	low
LNG	<i>Holcus lanatus</i>	Yorkshire Fog	high	high
MTG	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps bioregion

EVC 169: Dry Valley Forest

Description:

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

Large trees:

Species

Eucalyptus spp.

DBH(cm)

70 cm

#/ha

20 / ha

Tree Canopy Cover:

%cover

30%

Character Species

Eucalyptus macrorhyncha

Eucalyptus cypellocarpa

Common Name

Red Stringybark

Mountain Grey-gum

Understorey:

Life form

Immature Canopy Tree
Understorey Tree or Large Shrub
Medium Shrub
Small Shrub
Prostrate Shrub
Large Herb
Medium Herb
Small or Prostrate Herb
Large Tufted Graminoid
Medium to Small Tufted Graminoid
Medium to Tiny Non-tufted Graminoid
Ground Fern
Tree Fern
Scrambler or Climber
Bryophytes/Lichens

#Spp

4
9
3
1
4
11
3
3
4
1
3
1
2
na

%Cover

5%
15%
30%
10%
1%
5%
15%
5%
5%
15%
1%
10%
5%
5%
10%

LF code

IT
T
MS
SS
PS
LH
MH
SH
LTG
MTG
MNG
GF
TRF
SC
BL

EVC 169: Dry Valley Forest - Victorian Alps bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Olearia argophylla</i>	Musk Daisy-bush
T	<i>Acacia dealbata</i>	Silver Wattle
MS	<i>Pimelea axiflora</i>	Bootlace Bush
MS	<i>Olearia phlogopappa</i>	Dusty Daisy-bush
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Goodia lotifolia</i>	Golden Tip
SS	<i>Tetratheca pilosa</i>	Hairy Pink-bells
SS	<i>Hibbertia obtusifolia</i>	Grey Guinea-flower
SS	<i>Olearia megalophylla</i>	Large-leaf Daisy-bush
LH	<i>Stypandra glauca</i>	Nodding Blue-lily
LH	<i>Chrysocephalum semipapposum</i>	Clustered Everlasting
MH	<i>Stellaria pungens</i>	Prickly Starwort
MH	<i>Hydrocotyle hirta</i>	Hairy Pennywort
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
SH	<i>Leptinella filicula</i>	Mountain Cotula
SH	<i>Chiloglottis gunnii</i> s.l.	Common Bird-orchid
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
LTG	<i>Deyeuxia frigida</i>	Forest Bent-grass
MTG	<i>Poa australis</i> spp. agg.	Tussock Grass
MTG	<i>Libertia pulchella</i>	Pretty Grass-flag
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Blechnum wattsii</i>	Hard Water-fern
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
SC	<i>Hardenbergia violacea</i>	Purple Coral-pea

Recruitment:

Continuous

Organic Litter:

40 % cover

Logs:

20 m/0.1 ha.

Weediness:

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps bioregion

EVC 175: Grassy Woodland

Description:

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

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 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	1	5%	T
Medium Shrub	4	10%	MS
Small Shrub	1	1%	SS
Large Herb	5	10%	LH
Medium Herb	7	20%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	7	30%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	1	1%	GF
Scrambler or Climber	1	5%	SC
Bryophytes/Lichens	na	10%	BL

LF Code

Species typical of at least part of EVC range

Common Name

MS		<i>Exocarpos strictus</i>	Pale-fruit Ballart
MS	R r	<i>Discaria pubescens</i>	Australian Anchor Plant
MS		<i>Hymenanthera dentata</i> s.l.	Tree Violet
MS	r	<i>Pimelea pauciflora</i>	Poison Rice-flower
SS		<i>Pimelea glauca</i>	Smooth Rice-flower
PS	r	<i>Muehlenbeckia axillaris</i>	Matted Lignum
LH		<i>Ajuga australis</i>	Austral Bugle
LH		<i>Derwentia perfoliata</i>	Digger's Speedwell
LH		<i>Senecio quadridentatus</i>	Cotton Fireweed
LH		<i>Wahlenbergia gracilis</i> s.l.	Sprawling Bluebell
MH		<i>Geranium solanderi</i> s.l.	Austral Cranesbill
MH		<i>Daucus glochidiatus</i>	Australian Carrot
MH		<i>Gonocarpus tetragynus</i>	Common Raspwort
MH		<i>Plantago hispida</i>	Hairy Plantain
SH	r	<i>Scleranthus diander</i>	Tufted Knawel
SH		<i>Convolvulus erubescens</i> spp. agg.	Pink Bindweed
SH		<i>Desmodium varians</i>	Slender Tick-trefoil
LTG		<i>Austrostipa blackii</i>	Crested Spear-grass
MTG		<i>Themeda triandra</i>	Kangaroo Grass
MTG		<i>Poa hookeri</i>	Hooker's Tussock-grass
MTG		<i>Carex breviculmis</i>	Common Grass-sedge
MTG		<i>Elymus scaber</i> var. <i>scaber</i>	Common Wheat-grass
MNG		<i>Poa tenera</i>	Slender Tussock-grass
GF	r	<i>Asplenium trichomanes</i> ssp. <i>quadrialeans</i>	Common Spleenwort
SC		<i>Glycine clandestina</i>	Twining Glycine

EVC 175: Grassy Woodland - Victorian Alps 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>Verbascum virgatum</i>	Twiggy Mullein	high	high
LH	<i>Cirsium vulgare</i>	Spear Thistle	high	low
LH	<i>Dianthus armeria</i>	Deptford Pink	high	low
MH	<i>Hypochoeris radicata</i>	Cat's Ear	high	low
MH	<i>Trifolium campestre</i> var. <i>campestre</i>	Hop Clover	high	high
MH	<i>Centaurium erythraea</i>	Common Centaury	high	low
MH	<i>Veronica arvensis</i>	Wall Speedwell	high	low
MH	<i>Trifolium arvense</i> var. <i>arvense</i>	Hare's-foot Clover	high	high
MH	<i>Cerastium glomeratum</i> s.l.	Common Mouse-ear Chickweed	high	high
SH	<i>Trifolium repens</i> var. <i>repens</i>	White Clover	high	high
MNG	<i>Aira caryophylla</i>	Silvery Hair-grass	high	high

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps bioregion

EVC 192: Montane Rocky Shrubland

Description:

Treeless or sparsely treed shrubland of rocky alpine peaks greater than 1000m above sea level which are subject to low cloud cover and snowfall during winter. When present, trees are often stunted and low-growing and may form part of the dominant shrub layer.

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	8	40%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	5	5%	LH
Medium Herb	7	5%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	5%	LTG
Medium to Small Tufted Graminoid	4	5%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	3	5%	GF
Scrambler or Climber	1	1%	SC
Bryophytes/Lichens	na	20%	BL

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Tasmannia lanceolata</i>	Mountain Pepper
MS	<i>Coprosma hirtella</i>	Rough Coprosma
MS	<i>Leucopogon gelidus</i>	Drooping Beard-heath
MS	<i>Olearia phlogopappa</i>	Dusty Daisy-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>Platylobium formosum</i>	Handsome Flat-pea
LH	<i>Senecio linearifolius</i>	Fireweed Groundsel
LH	<i>Arthropodium milleflorum</i> s.l.	Pale Vanilla-lily
LH	<i>Derwentia derwentiana</i>	Derwent Speedwell
LH	<i>Senecio gunnii</i>	Mountain Fireweed
MH	<i>Stellaria pungens</i>	Prickly Starwort
MH	<i>Craspedia glauca</i> spp. agg.	Common Billy-buttons
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
SH	<i>Leptinella filicula</i>	Mountain Cotula
SH	<i>Chiloglottis gunnii</i> s.l.	Common Bird-orchid
LTG	<i>Deyeuxia frigida</i>	Forest Bent-grass
LTG	<i>Carex appressa</i>	Tall Sedge
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Luzula meridionalis</i>	Common Woodrush
MTG	<i>Stylidium graminifolium</i> s.l.	Grass Trigger-plant
MTG	<i>Luzula meridionalis</i> var. <i>flaccida</i>	Common Woodrush
MNG	<i>Poa tenera</i>	Slender Tussock-grass
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Blechnum penna-marina</i> ssp. <i>alpina</i>	Alpine Water-fern
GF	<i>Asplenium flabellifolium</i>	Necklace Fern
SC	<i>Clematis aristata</i>	Mountain Clematis

EVC 192: Montane Rocky Shrubland - Victorian Alps bioregion

Recruitment:

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

Organic Litter:

40 % cover

Weediness:

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps bioregion

EVC 201: Shrubby Wet Forest

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus delegatensis</i> ssp. <i>delegatensis</i>	Alpine Ash
	<i>Eucalyptus croajingolensis</i>	Gippsland Peppermint
	<i>Eucalyptus obliqua</i>	Messmate Stringybark

Understorey:

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

LF Code

Species typical of at least part of EVC range

Common Name

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

EVC 201: Shrubby Wet Forest - Victorian Alps bioregion

Recruitment:

Continuous

Organic Litter:

50 % cover

Logs:

30 m/0.1 ha.

Weediness:

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

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps bioregion

EVC 206: Sub-alpine Grassland

Description:

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

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	1	5%	MS
Small Shrub	3	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	3	5%	LH
Medium Herb	11	20%	MH
Small or Prostrate Herb	3	10%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	5	20%	MTG
Medium to Tiny Non-tufted Graminoid	2	10%	MNG
Bryophytes/Lichens	na	20%	BL
Soil Crust	na	10%	S/C

LF Code

Species typical of at least part of EVC range

Common Name

MS	<i>Baeckea gunniana</i>	Alpine Baeckea
SS	<i>Grevillea australis</i>	Alpine Grevillea
SS	<i>Leucopogon hookeri</i>	Mountain Beard-heath
SS	<i>Hovea montana</i>	Alpine Rusty-pods
PS	<i>Pimelea alpina</i>	Alpine Rice-flower
MH	<i>Asperula gunnii</i>	Mountain Woodruff
MH	<i>Celmisia asteliifolia</i> spp. agg.	Silver Daisy
MH	<i>Leptorhynchus squamatus</i>	Scaly Buttons
MH	<i>Craspedia glauca</i> spp. agg.	Common Billy-buttons
SH	<i>Scleranthus biflorus</i> s.l.	Twin-flower Knawel
SH	<i>Gonocarpus micranthus</i> ssp. <i>micranthus</i>	Creeping Raspwort
SH	<i>Cotula alpina</i>	Alpine Cotula
MTG	<i>Carex breviculmis</i>	Common Grass-sedge
MTG	<i>Poa fawcettiae</i>	Horny Snow-grass
MTG	<i>Stylidium graminifolium</i> s.l.	Grass Trigger-plant
MTG	<i>Poa costiniana</i>	Bog Snow-grass
MNG	<i>Empodisma minus</i>	Spreading Rope-rush

Recruitment:

Continuous

Organic Litter:

10% Cover

Weediness:

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

EVC 206: Sub-alpine Grassland - Victorian Alps bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps bioregion

EVC 210: Sub-alpine Wet Heathland

Description:

Virtually treeless and characterised by a dense layer of low heathy shrubs to 2 m tall, with a number of sedges and rushes in the understorey. Occurs at elevations above 1000 m, in soaks or along small streams. Rainfall is generally greater than 1000 mm per annum, and during winter, this EVC can tolerate long periods of snow cover and low temperature. Deep, peaty, sodden soils are usually covered by a layer of sphagnum moss.

Life Forms:

Life form	#Spp	%Cover	LF code
Medium Shrub	4	15%	MS
Small Shrub	3	10%	SS
Prostrate Shrub	1	1%	PS
Large Herb	1	1%	LH
Medium Herb	8	15%	MH
Small or Prostrate Herb	4	10%	SH
Large Tufted Graminoid	1	1%	LTG
Medium to Small Tufted Graminoid	4	10%	MTG
Medium to Tiny Non-tufted Graminoid	2	15%	MNG
Ground Fern	1	1%	GF
Bryophytes/Lichens	na	40%	BL

LF Code	Species typical of at least part of EVC range	Common Name
MS	<i>Epacris paludosa</i>	Swamp Heath
MS	<i>Baeckea gunniana</i>	Alpine Baeckea
MS	<i>Callistemon ptyoides</i>	Alpine Bottlebrush
MS	<i>Baeckea utilis s.l.</i>	Mountain Baeckea
SS	<i>Richea continentis</i>	Candle Heath
SS	<i>Olearia algida</i>	Mountain Daisy-bush
LH	<i>Epilobium gunnianum</i>	Gunn's Willow-herb
MH	<i>Astelia alpina var. novae-hollandiae</i>	Silver Astelia
MH	<i>Gentianella diemensis s.l.</i>	Mountain Gentian
MH	<i>Asperula gunnii</i>	Mountain Woodruff
MH	<i>Celmisia asteliifolia spp. agg.</i>	Silver Daisy
SH	<i>Nertera granadensis</i>	Matted Nertera
SH	<i>Oreobolus distichus</i>	Fan Tuft-rush
SH	<i>Gonocarpus micranthus ssp. micranthus</i>	Creeping Raspwort
LTG	<i>Carex appressa</i>	Tall Sedge
MTG	<i>Stylidium graminifolium s.l.</i>	Grass Trigger-plant
MTG	<i>Carpha nivicola</i>	Broad-leaf Flower-rush
MTG	<i>Isolepis aucklandica</i>	New Zealand Club-sedge
MTG	<i>Poa hiemata</i>	Soft Snow-grass
MNG	<i>Empodisma minus</i>	Spreading Rope-rush
GF	<i>Lycopodium fastigiatum</i>	Mountain Clubmoss
GF	<i>Blechnum penna-marina ssp. alpina</i>	Alpine Water-fern

Recruitment:

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

Organic Litter:

10% cover

Weediness:

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

EVC 210: Sub-alpine Wet Heathland - Victorian Alps bioregion

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps bioregion

EVC 316: Shrubby Damp Forest

Description:

Grows in gullies and on protected slopes on relatively skeletal but fertile sedimentary soils. Occurs at elevations of around 500 m above sea level and receives a low to moderate annual rainfall of approximately 750 mm. The overstorey includes a variety of Eucalypt species to 25 m tall. Silver Wattle is a common understorey tree. The dense mid stratum is comprised of medium to large shrubs characteristic of both drier and damper environments. The ground layer has a sparse cover of grasses and herbs, and commonly includes Austral Bracken.

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus obliqua</i>	Messmate Stringybark

Understorey:

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

EVC 316: Shrubby Damp Forest - Victorian Alps bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Pomaderris aspera</i>	Hazel Pomaderris
T	<i>Acacia dealbata</i>	Silver Wattle
T	<i>Exocarpos cupressiformis</i>	Cherry Ballart
MS	<i>Cassinia longifolia</i>	Shiny Cassinia
MS	<i>Pimelea axiflora</i>	Bootlace Bush
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Olearia lirata</i>	Snowy Daisy-bush
SS	<i>Olearia megalophylla</i>	Large-leaf Daisy-bush
LH	<i>Senecio linearifolius</i>	Fireweed Groundsel
MH	<i>Viola hederacea</i> sensu Willis (1972)	Ivy-leaf Violet
MH	<i>Gonocarpus tetragynus</i>	Common Raspwort
MH	<i>Lagenophora stipitata</i>	Common Bottle-daisy
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
LTG	<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
MTG	<i>Poa australis</i> spp. agg.	Tussock Grass
MTG	<i>Dianella revoluta</i> s.l.	Black-anther Flax-lily
MTG	<i>Austrodanthonia pilosa</i>	Velvet Wallaby-grass
MNG	<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
GF	<i>Pteridium esculentum</i>	Austral Bracken
GF	<i>Polystichum proliferum</i>	Mother Shield-fern
GF	<i>Blechnum wattsii</i>	Hard Water-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>Cerastium glomeratum</i> s.l.	Common Mouse-ear Chickweed	high	low

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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Alps bioregion

EVC 319: Montane Herb-rich Woodland

Description:

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

Large trees:

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

Tree Canopy Cover:

%cover	Character Species	Common Name
40%	<i>Eucalyptus radiata</i> s.l.	Narrow-leaf Peppermint
	<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	2	10%	T
Medium Shrub	6	15%	MS
Small Shrub	2	5%	SS
Prostrate Shrub	1	1%	PS
Large Herb	5	10%	LH
Medium Herb	12	20%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	1	5%	LTG
Medium to Small Tufted Graminoid	8	20%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	3	10%	GF
Scrambler or Climber	2	5%	SC
Bryophytes/Lichens	na	20%	BL

EVC 319: Montane Herb-rich Woodland - Victorian Alps bioregion

LF Code	Species typical of at least part of EVC range	Common Name
T	<i>Acacia dealbata</i>	Silver Wattle
T	<i>Notelaea ligustrina</i>	Privet Mock-olive
MS	<i>Coprosma hirtella</i>	Rough Coprosma
MS	<i>Pultenaea juniperina s.l.</i>	Prickly Bush-pea
MS	<i>Coprosma quadrifida</i>	Prickly Currant-bush
MS	<i>Exocarpos strictus</i>	Pale-fruit Ballart
SS	<i>Olearia erubescens</i>	Moth Daisy-bush
SS	<i>Leucopogon hookeri</i>	Mountain Beard-heath
SS	<i>Tetralochea ciliata</i>	Pink-bells
PS	<i>Platylobium formosum</i>	Handsome Flat-pea
LH	<i>Wahlenbergia stricta</i>	Tall Bluebell
LH	<i>Epilobium billardierianum</i>	Variable Willow-herb
LH	<i>Picris angustifolia</i>	Native Picris
LH	<i>Derwentia derwentiana</i>	Derwent Speedwell
MH	<i>Ranunculus plebeius s.l.</i>	Forest/Hairy Buttercup
MH	<i>Stellaria pungens</i>	Prickly Starwort
MH	<i>Asperula scoparia</i>	Prickly Woodruff
MH	<i>Acaena novae-zelandiae</i>	Bidgee-widgee
SH	<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
SH	<i>Lobelia pedunculata s.l.</i>	Matted Pratia
SH	<i>Leptinella filicula</i>	Mountain Cotula
SH	<i>Oxalis exilis</i>	Shady Wood-sorrel
LTG	<i>Poa helmsii</i>	Tall Mountain Tussock-grass
LTG	<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
MTG	<i>Poa sieberiana</i>	Grey Tussock-grass
MTG	<i>Carex breviculmis</i>	Common Grass-sedge
MTG	<i>Poa ensiformis</i>	Sword Tussock-grass
MTG	<i>Dianella tasmanica</i>	Tasman Flax-lily
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>Asplenium flabellifolium</i>	Necklace Fern
SC	<i>Glycine clandestina</i>	Twining Glycine
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
SH	<i>Trifolium repens var. repens</i>	White Clover	high	low

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